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Appendix G

Cost Benefit Analysis of Smart Meters: Phase 1 Overview Report

Report for the Ministerial Council on Energy Smart
Meter Working Group



NERA
Economic Consulting

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**Table G1.1: NPV of additional functionality to smart meter infrastructure: scenario 1
(excluding transfers)**

Functionality	Impact of Transitional Infrastructure		Impact to Existing Business Processes		Demand Response		Net Benefits		Net Benefits (per meter)	
	Lower	Upper	Lower	Upper	Low	High	Lower	Upper	Lower	Upper
Energy Measurement										
9. Remote reading (daily)	(\$25,735,236)	(\$62,820,877)	\$19,297,156	\$22,926,185	\$0	\$155,915,851	(\$43,523,721)	\$153,106,801	(\$4.51)	\$15.88
10. Power factor measurement	(\$14,028,287)	(\$24,901,693)	\$0	\$0			(\$24,901,693)	(\$14,028,287)	(\$2.58)	(\$1.45)
11. Export/import metering	\$0	(\$5,145,684)	\$44,249,577	\$44,249,577			\$39,103,893	\$44,249,577	\$4.06	\$4.59
Switching & Load Management										
12. Remote connect/disconnect - Case A	(\$73,778,097)	(\$120,598,704)	\$188,997,809	\$188,997,809			\$68,399,106	\$115,219,712	\$7.09	\$11.95
12. Remote connect/disconnect - Case B	(\$73,778,097)	(\$120,598,704)	\$226,635,725	\$226,635,725			\$106,037,022	\$152,857,628	\$11.00	\$15.85
13. Supply Capacity Control	(\$43,862,560)	(\$65,475,182)	\$20,328,762	\$20,328,762			(\$45,146,420)	(\$23,533,798)	(\$4.68)	(\$2.44)
14. Load management at meters through a dedicated control circuit - Case B	(\$45,181,873)	(\$66,816,835)	\$11,976,322	\$11,976,322			(\$54,840,514)	(\$33,205,552)	(\$5.69)	(\$3.44)
14. Load management at meters through a dedicated control circuit - Case C	(\$45,181,873)	(\$66,816,835)	\$11,976,322	\$11,976,322			(\$54,840,514)	(\$33,205,552)	(\$5.69)	(\$3.44)
15. Interface for Other Load Control Devices - Case A	(\$163,665,916)	(\$461,173,661)	\$0	\$0	\$227,442,401	\$721,888,806	(\$233,731,260)	\$558,222,890	(\$24.24)	\$57.89
15. Interface for Other Load Control Devices - Case B	(\$163,665,916)	(\$461,173,661)	\$0	\$0	\$227,442,401	\$721,888,806	(\$233,731,260)	\$558,222,890	(\$24.24)	\$57.89
Facilitation of Customer Interaction										
16. Interface to Home Area Network using Open Standard - Case A	(\$241,331,938)	(\$382,253,246)	\$0	\$0	\$227,442,401	\$721,888,806	(\$154,810,845)	\$480,556,869	(\$16.05)	\$49.83
16. Interface to Home Area Network using Open Standard - Case B	(\$241,331,938)	(\$382,253,246)	\$0	\$0	\$227,442,401	\$721,888,806	(\$154,810,845)	\$480,556,869	(\$16.05)	\$49.83
16. Interface to Home Area Network using Open Standard - Case C	(\$442,336,075)	(\$798,703,571)	\$0	\$0	\$368,725,497	\$1,174,437,333	(\$429,978,074)	\$732,101,258	(\$44.59)	\$75.92
17. Provision of an in-home display - Case A			\$0	\$0	(\$175,421,035)	(\$211,861,592)	(\$211,861,592)	(\$175,421,035)	(\$21.97)	(\$18.19)
17. Provision of an in-home display - Case B			\$0	\$0	(\$584,736,782)	(\$708,887,856)	(\$708,887,856)	(\$584,736,782)	(\$73.51)	(\$60.64)
17. Provision of an in-home display - Case C			\$0	\$0	(\$584,736,782)	(\$708,887,856)	(\$708,887,856)	(\$584,736,782)	(\$73.51)	(\$60.64)
18. Interface for Communications from gas and water meters - Case A	(\$190,678,469)	(\$283,094,020)	\$2,271,038	\$2,271,038			(\$280,822,982)	(\$188,407,431)	(\$29.12)	(\$19.54)
18. Interface for Communications from gas and water meters - Case B	(\$190,678,469)	(\$283,094,020)	\$5,078,866	\$5,078,866			(\$278,015,154)	(\$185,599,603)	(\$28.83)	(\$19.25)
Supply and Service Monitoring										
19. Quality of supply and other event recording	(\$58,862,366)	(\$88,293,549)	\$27,758,855	\$152,908,372			(\$60,534,694)	\$94,046,006	(\$6.28)	\$9.75
20. Meter Loss of Supply Detection and Outage Detection	(\$25,177,691)	(\$38,085,195)	\$102,686,665	\$102,686,665			\$64,601,470	\$77,508,974	\$6.70	\$8.04
21. Customer Supply Monitoring	(\$45,665,666)	(\$83,116,918)	\$95,640,124	\$95,640,124			\$12,523,206	\$49,974,458	\$1.30	\$5.18
22. Real time service checking	(\$34,151,059)	(\$51,545,247)	\$36,287,660	\$36,287,660			(\$15,257,587)	\$2,136,601	(\$1.58)	\$0.22
Standards and Interoperability										
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	(\$292,368,391)	(\$584,736,782)	\$0	\$0			(\$584,736,782)	(\$292,368,391)	(\$60.64)	(\$30.32)
Upgradeability and configurability										
25. Remote reconfiguration	(\$17,004,446)	(\$25,506,670)	\$162,127,582	\$162,127,582			\$136,620,913	\$145,123,136	\$14.17	\$15.05
26. Remote software upgrade	(\$89,361)	(\$29,370,880)	\$225,226,891	\$225,226,891			\$195,856,011	\$225,137,530	\$20.31	\$23.35
27. Separate standard base plate	(\$146,273,556)	(\$567,328,719)	\$120,796,724	\$120,796,724			(\$446,531,995)	(\$25,476,832)	(\$46.31)	(\$2.64)
28. Non meter board installation	(\$1,363,695,536)	(\$1,704,641,760)	\$698,351,139	\$698,351,139			(\$1,006,290,622)	(\$665,344,397)	(\$104.35)	(\$69.00)
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$52,626,310			\$52,626,310	\$52,626,310	\$5.46	\$5.46

**Table G1.2: NPV of net benefits to stakeholder groups by functionality: scenario 1
(including transfers)**

Functionality	Net Customer Benefits		Net Retailer Benefits		Net Networks Benefits		Net Market Benefits	
	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Energy Measurement								
9. Remote reading (daily)	(\$63,507,996)	\$4,784,002	\$44,102,465	\$342,539,735	(\$95,041,893)	\$185,662,452	(\$325,944,834)	\$16,989,148
10. Power factor measurement	\$0	\$0	\$0	\$0	(\$24,633,611)	(\$13,849,566)	(\$268,082)	(\$178,721)
11. Export/import metering	\$0	\$0	\$0	\$0	\$39,103,893	\$44,249,577	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$35,718,306	\$32,680,799	\$79,501,406	\$0	\$0
12. Remote connect/disconnect - Case B	\$0	\$0	\$35,718,306	\$35,718,306	\$70,318,715	\$117,139,322	\$0	\$0
13. Supply Capacity Control	\$0	\$0	(\$17,844,860)	(\$12,109,012)	(\$27,033,478)	(\$11,246,064)	(\$268,082)	(\$178,721)
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	(\$19,119,493)	(\$13,383,645)	(\$35,385,919)	(\$19,598,505)	(\$335,102)	(\$223,402)
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	(\$19,119,493)	(\$13,383,645)	(\$35,385,919)	(\$19,598,505)	(\$335,102)	(\$223,402)
15. Interface for Other Load Control Devices - Case A	(\$13,465,839)	\$1,254,898,438	(\$52,775,732)	\$110,422,494	(\$939,545,423)	\$292,116,619	(\$310,732,212)	(\$16,426,715)
15. Interface for Other Load Control Devices - Case B	(\$13,465,839)	\$1,254,898,438	(\$52,775,732)	\$110,422,494	(\$939,545,423)	\$292,116,619	(\$310,732,212)	(\$16,426,715)
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$203,164,922	\$1,283,782,539	(\$61,698,162)	\$105,323,963	(\$1,068,333,339)	\$190,665,027	(\$310,732,212)	(\$16,426,715)
16. Interface to Home Area Network using Open Standard - Case B	\$203,164,922	\$1,283,782,539	(\$61,698,162)	\$105,323,963	(\$1,068,333,339)	\$190,665,027	(\$310,732,212)	(\$16,426,715)
16. Interface to Home Area Network using Open Standard - Case C	(\$157,242,380)	\$1,269,588,481	(\$56,030,537)	\$103,873,974	(\$1,089,973,593)	\$569,248,372	(\$326,292,542)	(\$11,048,591)
17. Provision of an in-home display - Case A	\$0	\$140,434,070	(\$34,594,859)	\$165,175,858	(\$423,083,489)	(\$46,791,455)	(\$256,496,402)	\$68,073,651
17. Provision of an in-home display - Case B	\$0	\$140,434,070	(\$34,594,859)	\$165,175,858	(\$920,109,754)	(\$456,107,202)	(\$256,496,402)	\$68,073,651
17. Provision of an in-home display - Case C	\$0	\$140,434,070	(\$34,594,859)	\$165,175,858	(\$920,109,754)	(\$456,107,202)	(\$256,496,402)	\$68,073,651
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$0	\$0	(\$227,861,569)	(\$170,641,926)	(\$52,961,413)	(\$17,765,505)
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$0	\$0	(\$225,053,741)	(\$167,834,098)	(\$52,961,413)	(\$17,765,505)
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$0	(\$60,199,592)	\$94,269,408	(\$335,102)	(\$223,402)
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	(\$24,218,024)	(\$15,932,910)	\$89,154,596	\$93,665,286	(\$335,102)	(\$223,402)
21. Customer Supply Monitoring	\$0	\$0	\$0	\$0	\$12,858,308	\$50,197,860	(\$335,102)	(\$223,402)
22. Real time service checking	\$0	\$0	(\$8,922,430)	(\$5,735,848)	(\$6,000,055)	\$8,095,850	(\$335,102)	(\$223,402)
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$0	(\$584,736,782)	(\$292,368,391)	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$0	\$0	\$136,754,953	\$145,212,496	(\$134,041)	(\$89,361)
26. Remote software upgrade	\$0	\$0	\$0	\$0	\$195,990,052	\$225,226,891	(\$134,041)	(\$89,361)
27. Separate standard base plate	\$0	\$0	\$0	\$0	(\$446,397,954)	(\$25,387,471)	(\$134,041)	(\$89,361)
28. Non meter board installation	\$0	\$0	\$0	\$0	(\$1,006,156,581)	(\$665,255,037)	(\$134,041)	(\$89,361)
29. Plug and Play Device commissioning	\$0	\$0	\$0	\$0	\$52,626,310	\$52,626,310	\$0	\$0

**Table G1.3: NPV of benefits and costs by functionality: lower bound scenario 1
(including transfers)**

Functionality	Customer		Retailer		Networks		Market	
	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs
Energy Measurement								
9. Remote reading (daily)	\$0	\$63,507,996	\$102,966,420	\$7,647,797	\$0	\$18,042,758	\$0	\$20,205,949
10. Power factor measurement	\$0	\$0	\$0	\$0	\$0	\$13,849,566	\$0	\$178,721
11. Export/import metering	\$0	\$0	\$0	\$0	\$44,249,577	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$0	\$153,279,503	\$73,778,097	\$0	\$0
12. Remote connect/disconnect - Case B	\$0	\$0	\$35,718,306	\$0	\$190,917,419	\$73,778,097	\$0	\$0
13. Supply Capacity Control	\$0	\$0	\$0	\$12,109,012	\$20,328,762	\$31,574,827	\$0	\$178,721
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	\$0	\$13,383,645	\$11,976,322	\$31,574,827	\$0	\$223,402
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	\$0	\$13,383,645	\$11,976,322	\$31,574,827	\$0	\$223,402
15. Interface for Other Load Control Devices - Case A	\$419,795,684	\$144,420,508	\$40,818,618	\$35,726,102	\$190,191,597	\$342,022,205	\$36,450,439	\$101,311,038
15. Interface for Other Load Control Devices - Case B	\$419,795,684	\$144,420,508	\$40,818,618	\$35,726,102	\$190,191,597	\$342,022,205	\$36,450,439	\$101,311,038
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$419,795,684	\$115,536,406	\$40,818,618	\$40,824,633	\$190,191,597	\$443,473,797	\$36,450,439	\$101,311,038
16. Interface to Home Area Network using Open Standard - Case B	\$419,795,684	\$115,536,406	\$40,818,618	\$40,824,633	\$190,191,597	\$443,473,797	\$36,450,439	\$101,311,038
16. Interface to Home Area Network using Open Standard - Case C	\$475,838,707	\$316,540,543	\$56,709,516	\$43,891,615	\$317,194,538	\$488,066,755	\$50,419,008	\$125,273,433
17. Provision of an in-home display - Case A	\$0	\$0	\$0	\$0	\$0	\$175,421,035	\$0	\$0
17. Provision of an in-home display - Case B	\$0	\$0	\$0	\$0	\$0	\$584,736,782	\$0	\$0
17. Provision of an in-home display - Case C	\$0	\$0	\$0	\$0	\$0	\$584,736,782	\$0	\$0
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$0	\$0	\$2,271,038	\$172,912,964	\$0	\$17,765,505
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$0	\$0	\$5,078,866	\$172,912,964	\$0	\$17,765,505
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$0	\$27,758,855	\$58,638,964	\$0	\$223,402
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	\$0	\$15,932,910	\$102,686,665	\$9,021,379	\$0	\$223,402
21. Customer Supply Monitoring	\$0	\$0	\$0	\$0	\$95,640,124	\$45,442,264	\$0	\$223,402
22. Real time service checking	\$0	\$0	\$0	\$5,735,848	\$36,287,660	\$28,191,810	\$0	\$223,402
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$0	\$0	\$292,368,391	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$0	\$0	\$162,127,582	\$16,915,086	\$0	\$89,361
26. Remote software upgrade	\$0	\$0	\$0	\$0	\$225,226,891	\$0	\$0	\$89,361
27. Separate standard base plate	\$0	\$0	\$0	\$0	\$120,796,724	\$146,184,195	\$0	\$89,361
28. Non meter board installation	\$0	\$0	\$0	\$0	\$698,351,139	\$1,363,606,175	\$0	\$89,361
29. Plug and Play Device commissioning	\$0	\$0	\$0	\$0	\$52,626,310	\$0	\$0	\$0

**Table G1.4: NPV of benefits and costs by functionality: upper bound scenario 1
(including transfers)**

Functionality	Customer		Retailer		Networks		Market	
	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs
Energy Measurement								
9. Remote reading (daily)	\$68,291,997	\$63,507,996	\$350,187,532	\$58,863,955	\$203,705,210	\$95,041,893	\$37,195,097	\$325,944,834
10. Power factor measurement	\$0	\$0	\$0	\$0	\$0	\$24,633,611	\$0	\$268,082
11. Export/import metering	\$0	\$0	\$0	\$0	\$44,249,577	\$5,145,684	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$0	\$153,279,503	\$120,598,704	\$0	\$0
12. Remote connect/disconnect - Case B	\$0	\$0	\$35,718,306	\$0	\$190,917,419	\$120,598,704	\$0	\$0
13. Supply Capacity Control	\$0	\$0	\$0	\$17,844,860	\$20,328,762	\$47,362,240	\$0	\$268,082
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	\$0	\$19,119,493	\$11,976,322	\$47,362,240	\$0	\$335,102
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	\$0	\$19,119,493	\$11,976,322	\$47,362,240	\$0	\$335,102
15. Interface for Other Load Control Devices - Case A	\$1,399,318,945	\$433,261,523	\$146,148,596	\$93,594,350	\$634,138,824	\$1,129,737,020	\$84,884,323	\$347,182,651
15. Interface for Other Load Control Devices - Case B	\$1,399,318,945	\$433,261,523	\$146,148,596	\$93,594,350	\$634,138,824	\$1,129,737,020	\$84,884,323	\$347,182,651
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$1,399,318,945	\$216,630,762	\$146,148,596	\$102,516,780	\$634,138,824	\$1,258,524,936	\$84,884,323	\$347,182,651
16. Interface to Home Area Network using Open Standard - Case B	\$1,399,318,945	\$216,630,762	\$146,148,596	\$102,516,780	\$634,138,824	\$1,258,524,936	\$84,884,323	\$347,182,651
16. Interface to Home Area Network using Open Standard - Case C	\$1,586,129,024	\$633,081,087	\$147,765,589	\$112,740,053	\$1,057,315,127	\$1,407,168,131	\$114,224,841	\$376,711,549
17. Provision of an in-home display - Case A	\$140,434,070	\$0	\$165,175,858	\$34,594,859	\$128,629,580	\$423,083,489	\$68,073,651	\$256,496,402
17. Provision of an in-home display - Case B	\$140,434,070	\$0	\$165,175,858	\$34,594,859	\$128,629,580	\$920,109,754	\$68,073,651	\$256,496,402
17. Provision of an in-home display - Case C	\$140,434,070	\$0	\$165,175,858	\$34,594,859	\$128,629,580	\$920,109,754	\$68,073,651	\$256,496,402
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$0	\$0	\$2,271,038	\$230,132,607	\$0	\$52,961,413
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$0	\$0	\$5,078,866	\$230,132,607	\$0	\$52,961,413
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$0	\$152,908,372	\$87,958,446	\$0	\$335,102
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	\$0	\$24,218,024	\$102,686,665	\$13,532,069	\$0	\$335,102
21. Customer Supply Monitoring	\$0	\$0	\$0	\$0	\$95,640,124	\$82,781,816	\$0	\$335,102
22. Real time service checking	\$0	\$0	\$0	\$8,922,430	\$36,287,660	\$42,287,715	\$0	\$335,102
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$0	\$0	\$584,736,782	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$0	\$0	\$162,127,582	\$25,372,629	\$0	\$134,041
26. Remote software upgrade	\$0	\$0	\$0	\$0	\$225,226,891	\$29,236,839	\$0	\$134,041
27. Separate standard base plate	\$0	\$0	\$0	\$0	\$120,796,724	\$567,194,678	\$0	\$134,041
28. Non meter board installation	\$0	\$0	\$0	\$0	\$698,351,139	\$1,704,507,719	\$0	\$134,041
29. Plug and Play Device commissioning	\$0	\$0	\$0	\$0	\$52,626,310	\$0	\$0	\$0

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Measurement																	
9. Remote reading (daily)																	
Consumer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$63,507,996		\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888
Retailer																	
Benefits	\$102,966,420		\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220
Costs	\$7,647,797	\$5,086,449	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$2,797,547	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967
Network																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$18,042,758	\$12,000,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$6,600,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000
Market																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$20,205,949	\$29,716	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,900,753	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866
Total																	
Benefits	\$102,966,420																
Costs	\$109,404,500																
Net Benefits	-\$6,438,079																
10. Power factor measurement																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$13,849,566	\$7,500,000	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$4,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701	\$1,620,701
Market																	
Benefits																	
Costs	\$178,721	\$118,865	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$65,376	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830
Total																	
Benefits	\$0																
Costs	\$14,028,287																
Net Benefits	-\$14,028,287																
11. Export/import metering																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$44,249,577		\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$44,249,577																
Costs	\$0																
Net Benefits	\$44,249,577																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Switching & Load Management																	
12. Remote connect/disconnect - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$73,778,097	\$3,750,000	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$15,190,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$188,997,809																
Costs	\$73,778,097																
Net Benefits	\$115,219,712																
12. Remote connect/disconnect - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$190,917,419		\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466
Costs	\$73,778,097	\$3,750,000	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$15,190,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771	\$13,690,771
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$226,635,725																
Costs	\$73,778,097																
Net Benefits	\$152,857,628																
13. Supply capacity control																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$12,109,012	\$8,053,544	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$4,429,449	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032
Network																	
Benefits	\$20,328,762		\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680
Costs	\$31,574,827	\$21,000,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$11,550,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000
Market																	
Benefits																	
Costs	\$178,721	\$118,865	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$65,376	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830
Tonnes																	
Total																	
Benefits	\$20,328,762																
Costs	\$43,862,560																
Net Benefits	-\$23,533,798																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
14. Load management at meters through a dedicated control circuit - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$13,383,645	\$8,901,285	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$4,895,707	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$31,574,827	\$21,000,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$11,550,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$11,976,322																
Costs	\$45,181,873																
Net Benefits	-\$33,205,552																
14. Load management at meters through a dedicated control circuit - Case C																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$13,383,645	\$8,901,285	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$4,895,707	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$31,574,827	\$21,000,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$11,550,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$11,976,322																
Costs	\$45,181,873																
Net Benefits	-\$33,205,552																
15. Interface for other load control devices - Case A																	
Consumer																	
Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Costs	\$144,420,508		\$69,830,296	\$15,005,185	\$16,957,365	\$18,920,486	\$20,901,207	\$22,679,879	\$24,548,154	\$25,172,370	\$25,777,845	\$26,369,250	\$26,954,898	\$27,520,249	\$28,069,936	\$28,602,534	\$29,116,634
Retailer																	
Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Costs	\$35,726,102	\$8,901,285	\$4,157,107	\$4,588,676	\$5,014,483	\$5,444,549	\$5,878,534	\$6,267,363	\$6,409,579	\$5,965,885	\$6,079,678	\$6,191,234	\$6,301,899	\$6,409,284	\$6,514,183	\$6,616,343	\$6,715,516
Network																	
Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Costs	\$342,022,205	\$3,750,000	\$40,116,094	\$46,228,834	\$52,177,457	\$58,164,908	\$64,206,225	\$69,628,683	\$74,399,274	\$74,744,655	\$76,536,039	\$78,286,989	\$80,021,472	\$81,697,466	\$83,328,461	\$84,910,281	\$86,438,808
Market																	
Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269
Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$20,129,830	\$20,389,706	\$20,700,738	\$21,005,658	\$21,308,145	\$21,601,663	\$21,888,386	\$22,167,625	\$22,438,696
Total																	
Benefits	\$687,256,338																
Costs	\$623,479,853																
Net Benefits	\$63,776,485																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
15. Interface for other load control devices - Case B																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$144,420,508		\$69,830,296	\$15,005,185	\$16,957,365	\$18,920,486	\$20,901,207	\$22,679,879	\$24,548,154	\$25,172,370	\$25,777,845	\$26,369,250	\$26,954,898	\$27,520,249	\$28,069,936	\$28,602,534	\$29,116,634
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$35,726,102	\$8,901,285	\$4,157,107	\$4,588,676	\$5,014,483	\$5,444,549	\$5,878,534	\$6,267,363	\$6,627,363	\$6,940,579	\$7,215,885	\$7,461,234	\$7,681,899	\$7,881,284	\$8,051,183	\$8,196,343	\$8,316,516
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$342,022,205	\$3,750,000	\$40,116,094	\$46,228,834	\$52,177,457	\$58,164,908	\$64,206,225	\$69,628,683	\$74,399,274	\$78,444,655	\$82,839,039	\$87,528,989	\$92,471,472	\$97,626,466	\$102,946,461	\$108,381,281	\$113,908,808
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$22,219,830	\$23,169,706	\$24,070,738	\$24,929,658	\$25,744,145	\$26,514,663	\$27,246,386	\$27,939,269	\$28,583,696
Total Benefits	\$687,256,338																
Total Costs	\$623,479,853																
Net Benefits	\$63,776,485																
Facilitation of Customer interaction																	
16. Interface to Home Area Network using open standard - Case A																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$115,536,406		\$55,864,237	\$12,004,148	\$13,565,892	\$15,136,389	\$16,720,966	\$18,143,903	\$19,638,523	\$20,137,896	\$20,622,276	\$21,095,400	\$21,563,919	\$22,016,199	\$22,455,949	\$22,882,027	\$23,293,307
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$40,824,633	\$12,292,251	\$4,665,752	\$5,097,321	\$5,523,128	\$5,953,194	\$6,387,179	\$6,776,008	\$7,127,610	\$7,444,530	\$7,738,322	\$8,011,879	\$8,275,544	\$8,529,929	\$8,774,628	\$9,009,288	\$9,234,161
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$443,473,797	\$9,000,000	\$58,929,101	\$65,041,842	\$70,990,464	\$76,977,915	\$83,019,232	\$88,441,690	\$93,512,281	\$98,557,663	\$103,499,046	\$108,349,996	\$113,109,479	\$117,781,624	\$122,378,468	\$126,903,288	\$131,367,815
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$22,219,830	\$23,169,706	\$24,070,738	\$24,929,658	\$25,744,145	\$26,514,663	\$27,246,386	\$27,939,269	\$28,583,696
Total Benefits	\$687,256,338																
Total Costs	\$701,145,874																
Net Benefits	-\$13,889,536																
16. Interface to Home Area Network using open standard - Case B																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$115,536,406		\$55,864,237	\$12,004,148	\$13,565,892	\$15,136,389	\$16,720,966	\$18,143,903	\$19,638,523	\$20,137,896	\$20,622,276	\$21,095,400	\$21,563,919	\$22,016,199	\$22,455,949	\$22,882,027	\$23,293,307
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$40,824,633	\$12,292,251	\$4,665,752	\$5,097,321	\$5,523,128	\$5,953,194	\$6,387,179	\$6,776,008	\$7,127,610	\$7,444,530	\$7,738,322	\$8,011,879	\$8,275,544	\$8,529,929	\$8,774,628	\$9,009,288	\$9,234,161
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$443,473,797	\$9,000,000	\$58,929,101	\$65,041,842	\$70,990,464	\$76,977,915	\$83,019,232	\$88,441,690	\$93,512,281	\$98,557,663	\$103,499,046	\$108,349,996	\$113,109,479	\$117,781,624	\$122,378,468	\$126,903,288	\$131,367,815
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$22,219,830	\$23,169,706	\$24,070,738	\$24,929,658	\$25,744,145	\$26,514,663	\$27,246,386	\$27,939,269	\$28,583,696
Total Benefits	\$687,256,338																
Total Costs	\$701,145,874																
Net Benefits	-\$13,889,536																
16. Interface to Home Area Network using open standard - Case C																	
Consumer Benefits	\$475,838,707		\$82,346,338	\$84,452,162	\$86,488,922	\$88,501,660	\$90,486,474	\$92,407,388	\$94,279,698	\$96,109,126	\$97,904,468	\$99,672,827	\$101,414,066	\$103,128,041	\$104,813,611	\$106,470,729	\$108,109,355
Consumer Costs	\$316,540,543		\$53,280,603	\$54,635,435	\$55,949,590	\$57,233,205	\$58,504,328	\$59,731,394	\$61,030,385	\$62,330,926	\$63,644,614	\$64,962,124	\$66,293,246	\$67,637,622	\$68,994,822	\$70,365,481	\$71,750,334
Retailer Benefits	\$56,709,516		\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046
Retailer Costs	\$43,891,615	\$12,292,251	\$6,470,617	\$6,589,069	\$6,704,447	\$6,817,527	\$6,929,696	\$7,038,531	\$7,144,610	\$7,248,530	\$7,350,822	\$7,451,179	\$7,549,144	\$7,644,329	\$7,737,388	\$7,828,888	\$7,918,388
Network Benefits	\$317,194,538		\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886
Network Costs	\$488,066,755	\$9,000,000	\$84,448,538	\$86,112,140	\$87,728,053	\$89,308,726	\$90,874,776	\$92,389,372	\$93,853,415	\$95,276,715	\$96,659,722	\$98,002,922	\$99,316,021	\$100,598,423	\$101,850,622	\$103,072,222	\$104,263,822
Market Benefits	\$50,419,008		\$12,043,192	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819
Market Costs	\$125,273,433	\$148,581	\$23,380,626	\$23,704,395	\$24,019,764	\$24,328,849	\$24,635,444	\$24,932,927	\$25,231,448	\$25,521,323	\$25,812,356	\$26,104,276	\$26,397,622	\$26,692,021	\$26,987,281	\$27,283,222	\$27,579,622
Total Benefits	\$900,161,769																
Total Costs	\$973,772,347																
Net Benefits	-\$73,610,578																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
17. Provision of an in-home display - Case A																	
Consumer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumer Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$175,421,035		\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826
Market Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Benefits	\$0																
Total Costs	\$175,421,035																
Net Benefits	-\$175,421,035																
17. Provision of an in-home display - Case B																	
Consumer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumer Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$584,736,782		\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Market Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Benefits	\$0																
Total Costs	\$584,736,782																
Net Benefits	-\$584,736,782																
17. Provision of an in-home display - Case C																	
Consumer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumer Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$584,736,782		\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Market Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Benefits	\$0																
Total Costs	\$584,736,782																
Net Benefits	-\$584,736,782																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
18. Interface for communications from gas and water meters - Case A																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$2,271,038		\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554
Costs	\$172,912,964	\$45,000,000	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$45,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696
Market																	
Benefits	\$0																
Costs	\$17,765,505	\$148,581	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,461,502	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070
Total																	
Benefits	\$2,271,038																
Costs	\$190,678,469																
Net Benefits	-\$188,407,431																
18. Interface for communications from gas and water meters - Case B																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$5,078,866		\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529
Costs	\$172,912,964	\$45,000,000	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$45,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696
Market																	
Benefits	\$0																
Costs	\$17,765,505	\$148,581	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,461,502	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070
Total																	
Benefits	\$5,078,866																
Costs	\$190,678,469																
Net Benefits	-\$185,599,603																
Supply and service monitoring																	
19. Quality of supply and other event recording																	
Consumer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits																	
Costs	\$0																
Network																	
Benefits	\$27,758,855		\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212
Costs	\$58,638,964	\$39,000,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$21,450,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000	\$5,850,000
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$27,758,855																
Costs	\$58,862,366																
Net Benefits	-\$31,103,511																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
20. Meter loss of supply detection and outage detection																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs	\$15,932,910	\$10,596,768	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$5,828,222	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515
Market																	
Benefits	\$102,686,665		\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321
Costs	\$9,021,379	\$6,000,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$3,300,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Total																	
Benefits	\$102,686,665																
Costs	\$25,177,691	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Net Benefits	\$77,508,974																
21. Customer supply monitoring																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$95,640,124		\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686
Costs	\$45,442,264	\$3,000,000	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$9,536,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$95,640,124																
Costs	\$45,665,666																
Net Benefits	\$49,974,458																
22. Real time service checking																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$5,735,848	\$3,814,837	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$2,098,160	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225
Network																	
Benefits	\$36,287,660		\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431
Costs	\$28,191,810	\$18,750,000	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$10,312,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$36,287,660																
Costs	\$34,151,059																
Net Benefits	\$2,136,601																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Standards and interoperability																	
23. Interoperability for meters/devices at application layer																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits	n/a																
Costs	n/a																
Net Benefits	n/a																
24. Hardware component interoperability																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$292,368,391	\$0	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$292,368,391																
Net Benefits	-\$292,368,391																
Upgradeability and configurability																	
25. Remote reconfiguration																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$162,127,582		\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618
Costs	\$16,915,086	\$11,250,000	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$6,167,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500	\$1,687,500
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$162,127,582																
Costs	\$17,004,446																
Net Benefits	\$145,123,136																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
26. Remote software upgrade																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$225,226,891		\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$225,226,891																
Costs	\$89,361																
Net Benefits	\$225,137,530																
27. Separate standard base plate																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$120,796,724		\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530
Costs	\$146,184,195	\$0	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$120,796,724																
Costs	\$146,273,556																
Net Benefits	-\$25,476,832																
28. Non meter board installation																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$698,351,139		\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145
Costs	\$1,363,606,175	\$0	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766
Market																	
Benefits																	
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$698,351,139																
Costs	\$1,363,695,536																
Net Benefits	-\$665,344,397																

Table G1.5: Low estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
29. Plug and Play device commissioning																	
Consumer																	
Benefits	\$0																
Costs	\$0																
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$52,626,310		\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$52,626,310																
Costs	\$0																
Net Benefits	\$52,626,310																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Measurement																	
9. Remote reading (daily)																	
Consumer																	
Benefits	\$68,291,997		\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607
Costs	\$63,507,996		\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888
Retailer																	
Benefits	\$350,187,532		\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544
Costs	\$58,863,955	\$23,736,761	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$17,520,126	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422
Network																	
Benefits	\$203,705,210		\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250
Costs	\$95,041,893	\$18,000,000	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$22,997,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063	\$15,797,063
Market																	
Benefits	\$37,195,097		\$5,808,357	\$4,165,138	\$4,165,138	\$4,165,138	\$4,165,138	\$4,165,138	\$11,140,121	\$11,154,274	\$11,154,274	\$11,154,274	\$11,154,274	\$6,967,896	\$6,967,896	\$6,967,896	\$6,967,896
Costs	\$325,944,834	\$44,574	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,810,382	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552
Total																	
Benefits	\$659,379,836																
Costs	\$543,358,677																
Net Benefits	\$116,021,159																
10. Power factor measurement																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$24,633,611	\$11,250,000	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$7,674,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604	\$3,174,604
Costs	\$268,082	\$178,298	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$98,064	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745
Market																	
Benefits	\$0																
Costs	\$24,901,693																
Net Benefits	-\$24,901,693																
11. Export/import metering																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$44,249,577		\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428
Costs	\$5,145,684	\$0	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$44,249,577																
Costs	\$5,145,684																
Net Benefits	\$39,103,893																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Switching & Load Management																	
12. Remote connect/disconnect - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$120,598,704	\$6,000,000	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$24,797,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$188,997,809																
Costs	\$120,598,704																
Net Benefits	\$68,399,106																
12. Remote connect/disconnect - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$190,917,419		\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466	\$36,783,466
Costs	\$120,598,704	\$6,000,000	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$24,797,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257	\$22,397,257
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$226,635,725																
Costs	\$120,598,704																
Net Benefits	\$106,037,022																
13. Supply capacity control																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$17,844,860	\$11,868,380	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$6,527,609	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257
Network																	
Benefits	\$20,328,762		\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680
Costs	\$47,362,240	\$31,500,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$17,325,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000
Market																	
Benefits																	
Costs	\$268,082	\$178,298	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$98,064	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745
Tonnes																	
Total																	
Benefits	\$20,328,762																
Costs	\$65,475,182																
Net Benefits	-\$45,146,420																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
14. Load management at meters through a dedicated control circuit - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$19,119,493	\$12,716,122	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$6,993,867	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$47,362,240	\$31,500,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$17,325,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$11,976,322																
Costs	\$66,816,835																
Net Benefits	-\$54,840,514																
14. Load management at meters through a dedicated control circuit - Case C																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$19,119,493	\$12,716,122	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$6,993,867	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418	\$1,907,418
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$47,362,240	\$31,500,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$17,325,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$11,976,322																
Costs	\$66,816,835																
Net Benefits	-\$54,840,514																
15. Interface for other load control devices - Case A																	
Consumer																	
Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Costs	\$433,261,523		\$209,490,889	\$45,015,555	\$50,872,096	\$56,761,457	\$62,703,621	\$68,039,636	\$73,644,462	\$75,517,111	\$77,333,536	\$79,107,749	\$80,864,695	\$82,560,746	\$84,209,809	\$85,807,601	\$87,349,901
Retailer																	
Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Costs	\$93,594,350	\$12,716,122	\$11,313,800	\$12,752,363	\$14,171,720	\$15,605,273	\$17,051,888	\$18,347,987	\$22,040,108	\$17,343,060	\$17,722,368	\$18,094,221	\$18,463,107	\$18,821,056	\$19,170,719	\$19,511,254	\$19,841,829
Network																	
Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Costs	\$1,129,737,020	\$5,625,000	\$132,689,064	\$153,064,865	\$172,893,606	\$192,851,776	\$212,989,498	\$231,064,359	\$244,216,329	\$248,117,601	\$254,088,880	\$259,925,380	\$265,706,990	\$271,293,635	\$276,730,287	\$282,003,021	\$287,098,110
Market																	
Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total																	
Benefits	\$2,264,490,689																
Costs	\$2,003,775,544																
Net Benefits	\$260,715,145																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
15. Interface for other load control devices - Case B																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$433,261,523		\$209,490,889	\$45,015,555	\$50,872,096	\$56,761,457	\$62,703,621	\$68,039,636	\$73,644,462	\$75,517,111	\$77,333,536	\$79,107,749	\$80,864,695	\$82,560,746	\$84,209,809	\$85,807,601	\$87,349,901
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$93,594,350	\$12,716,122	\$11,313,800	\$12,752,363	\$14,171,720	\$15,605,273	\$17,051,888	\$18,347,987	\$22,040,108	\$17,343,060	\$17,722,368	\$18,094,221	\$18,463,107	\$18,821,056	\$19,170,719	\$19,511,254	\$19,841,829
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,129,737,020	\$5,625,000	\$132,689,064	\$153,064,865	\$172,893,606	\$192,851,776	\$212,989,498	\$231,064,359	\$244,216,329	\$248,117,601	\$254,088,880	\$259,925,380	\$265,706,990	\$271,293,635	\$276,730,287	\$282,003,021	\$287,098,110
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$2,003,775,544																
Net Benefits	\$260,715,145																
Facilitation of Customer interaction																	
16. Interface to Home Area Network using open standard - Case A																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$216,630,762		\$104,745,444	\$22,507,778	\$25,436,048	\$28,380,729	\$31,351,810	\$34,019,818	\$36,822,231	\$37,758,556	\$38,666,768	\$39,553,875	\$40,432,348	\$41,280,373	\$42,104,905	\$42,903,800	\$43,674,951
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$102,516,780	\$18,650,312	\$12,203,929	\$13,642,492	\$15,061,849	\$16,495,402	\$17,942,016	\$19,238,115	\$25,303,913	\$18,233,188	\$18,612,496	\$18,984,350	\$19,353,236	\$19,711,185	\$20,060,847	\$20,401,382	\$20,731,957
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,258,524,936	\$13,500,000	\$156,402,198	\$176,777,999	\$196,606,740	\$216,564,910	\$236,702,632	\$254,777,493	\$271,079,463	\$271,830,735	\$277,802,014	\$283,638,514	\$289,420,124	\$295,006,769	\$300,443,420	\$305,716,155	\$310,811,244
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$1,924,855,129																
Net Benefits	\$339,635,561																
16. Interface to Home Area Network using open standard - Case B																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$216,630,762		\$104,745,444	\$22,507,778	\$25,436,048	\$28,380,729	\$31,351,810	\$34,019,818	\$36,822,231	\$37,758,556	\$38,666,768	\$39,553,875	\$40,432,348	\$41,280,373	\$42,104,905	\$42,903,800	\$43,674,951
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$102,516,780	\$18,650,312	\$12,203,929	\$13,642,492	\$15,061,849	\$16,495,402	\$17,942,016	\$19,238,115	\$25,303,913	\$18,233,188	\$18,612,496	\$18,984,350	\$19,353,236	\$19,711,185	\$20,060,847	\$20,401,382	\$20,731,957
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,258,524,936	\$13,500,000	\$156,402,198	\$176,777,999	\$196,606,740	\$216,564,910	\$236,702,632	\$254,777,493	\$271,079,463	\$271,830,735	\$277,802,014	\$283,638,514	\$289,420,124	\$295,006,769	\$300,443,420	\$305,716,155	\$310,811,244
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$1,924,855,129																
Net Benefits	\$339,635,561																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
16. Interface to Home Area Network using open standard - Case C																	
Consumer																	
Benefits	\$1,586,129,024		\$274,487,795	\$281,507,206	\$288,329,407	\$295,005,533	\$301,621,581	\$308,024,628	\$298,265,659	\$305,983,753	\$313,488,226	\$320,836,090	\$328,120,219	\$335,173,469	\$342,060,370	\$348,764,313	\$355,268,851
Costs	\$633,081,087		\$106,561,206	\$109,270,871	\$111,899,180	\$114,466,410	\$117,008,656	\$119,462,788	\$122,740,769	\$125,861,852	\$128,889,227	\$131,846,249	\$134,774,492	\$137,601,244	\$140,349,682	\$143,012,668	\$145,583,169
Retailer																	
Benefits	\$147,765,599		\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537
Costs	\$112,740,053	\$18,650,312	\$18,220,143	\$18,614,983	\$18,999,579	\$19,376,512	\$19,750,408	\$20,113,193	\$25,303,913	\$18,233,188	\$18,612,496	\$18,984,350	\$19,353,236	\$19,711,185	\$20,060,847	\$20,401,382	\$20,731,957
Network																	
Benefits	\$1,057,315,127		\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621
Costs	\$1,407,168,131	\$13,500,000	\$241,466,986	\$247,012,328	\$252,398,703	\$257,667,612	\$262,887,781	\$267,936,434	\$272,049,909	\$272,914,243	\$279,002,633	\$284,962,243	\$290,869,198	\$296,586,103	\$302,167,599	\$307,600,211	\$312,870,602
Market																	
Benefits	\$114,224,841		\$33,571,098	\$48,253,352	\$48,253,352	\$48,253,352	\$48,253,352	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979
Costs	\$376,711,549	\$222,872	\$70,099,838	\$71,179,068	\$72,230,297	\$73,260,581	\$74,282,563	\$75,274,174	\$69,160,283	\$70,135,494	\$71,172,270	\$72,188,670	\$73,196,958	\$74,175,353	\$75,131,097	\$76,061,892	\$76,965,463
Total																	
Benefits	\$2,905,434,582																
Costs	\$2,529,700,820																
Net Benefits	\$375,733,762																
17. Provision of an in-home display - Case A																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$34,594,859		\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$423,083,489		\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182	\$81,514,182
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402		\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$714,174,751																
Net Benefits	-\$211,861,592																
17. Provision of an in-home display - Case B																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$34,594,859		\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$920,109,754		\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402		\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$1,211,201,015																
Net Benefits	-\$708,887,856																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
17. Provision of an in-home display - Case C																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$34,594,859		\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284	\$6,665,284
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$920,109,754		\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688	\$177,274,688
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402		\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$1,211,201,015																
Net Benefits	-\$708,887,856																
18. Interface for communications from gas and water meters - Case A																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$2,271,038		\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554
Costs	\$230,132,607	\$67,500,000	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$61,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072
Market																	
Benefits	\$0																
Costs	\$52,961,413	\$222,872	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,261,927	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779
Total																	
Benefits	\$2,271,038																
Costs	\$283,094,020																
Net Benefits	-\$280,822,982																
18. Interface for communications from gas and water meters - Case B																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$0																
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$5,078,866		\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529
Costs	\$230,132,607	\$67,500,000	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$61,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072
Market																	
Benefits	\$0																
Costs	\$52,961,413	\$222,872	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,261,927	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779
Total																	
Benefits	\$5,078,866																
Costs	\$283,094,020																
Net Benefits	-\$278,015,154																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Supply and service monitoring																	
19. Quality of supply and other event recording																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$152,908,372		\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381
Costs	\$87,958,446	\$58,500,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$32,175,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000	\$8,775,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$152,908,372																
Costs	\$88,293,549																
Net Benefits	\$64,614,823																
20. Meter loss of supply detection and outage detection																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$24,218,024	\$16,107,088	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$8,858,898	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063
Network																	
Benefits	\$102,686,665		\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321
Costs	\$13,532,069	\$9,000,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$4,950,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$102,686,665																
Costs	\$38,085,195																
Net Benefits	\$64,601,470																
21. Customer supply monitoring																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$95,640,124		\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686
Costs	\$82,781,816	\$4,500,000	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$17,120,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725	\$15,320,725
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$95,640,124																
Costs	\$83,116,918																
Net Benefits	\$12,523,206																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
22. Real time service checking																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$8,922,430	\$5,934,190	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$3,263,805	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129
Network																	
Benefits	\$36,287,660		\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431
Costs	\$42,287,715	\$28,125,000	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$15,468,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$36,287,660																
Costs	\$51,545,247																
Net Benefits	-\$15,257,587																
Standards and interoperability																	
23. Interoperability for meters/devices at application layer																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits																	
Costs																	
Net Benefits																	
24. Hardware component interoperability																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$584,736,782	\$0	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$584,736,782																
Net Benefits	-\$584,736,782																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Upgradeability and configurability																	
25. Remote reconfiguration																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$162,127,582		\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618	\$31,236,618
Costs	\$25,372,629	\$16,875,000	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$9,281,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250	\$2,531,250
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$162,127,582																
Costs	\$25,506,670																
Net Benefits	\$136,620,913																
26. Remote software upgrade																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$225,226,891		\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766
Costs	\$29,236,839	\$0	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$225,226,891																
Costs	\$29,370,880																
Net Benefits	\$195,856,011																
27. Separate standard base plate																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$120,796,724		\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530
Costs	\$567,194,678	\$0	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$120,796,724																
Costs	\$567,328,719																
Net Benefits	-\$446,531,995																
28. Non meter board installation																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$698,351,139		\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145
Costs	\$1,704,507,719	\$0	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$698,351,139																
Costs	\$1,704,641,760																
Net Benefits	-\$1,006,290,622																

Table G1.6: High estimate of benefits and costs: scenario 1

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
29. Plug and Play device commissioning																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$52,626,310		\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$52,626,310																
Costs	\$0																
Net Benefits	\$52,626,310																

Tables G2.1 – G2.6

**Table G2.1: NPV of additional functionality to smart meter infrastructure: scenario 2
(excluding transfers)**

Functionality	Impact of Transitional Infrastructure		Impact to Existing Business Processes		Demand Response		Net Benefits		Net Benefits (per meter)	
	Lower	Upper	Lower	Upper	Low	High	Lower	Upper	Lower	Upper
Energy Measurement										
9. Remote reading (daily)	(\$25,735,236)	(\$62,820,877)	\$19,297,156	\$22,926,185	\$0	\$155,915,851	(\$43,523,721)	\$153,106,801	(\$4.51)	\$15.88
10. Power factor measurement	(\$18,538,977)	(\$29,412,383)	\$0	\$0			(\$29,412,383)	(\$18,538,977)	(\$3.05)	(\$1.92)
11. Export/import metering	\$0	(\$5,145,684)	\$44,249,577	\$44,249,577			\$39,103,893	\$44,249,577	\$4.06	\$4.59
Switching & Load Management										
12. Remote connect/disconnect - Case A	(\$127,906,372)	(\$174,726,979)	\$188,997,809	\$188,997,809			\$14,270,831	\$61,091,437	\$1.48	\$6.34
12. Remote connect/disconnect - Case B	(\$171,885,595)	(\$240,131,977)	\$226,635,725	\$226,635,725			(\$13,496,252)	\$54,750,130	(\$1.40)	\$5.68
13. Supply Capacity Control	(\$75,437,387)	(\$97,050,009)	\$20,328,762	\$20,328,762			(\$76,721,247)	(\$55,108,625)	(\$7.96)	(\$5.71)
14. Load management at meters through a dedicated control circuit - Case B	(\$54,203,252)	(\$75,838,214)	\$11,976,322	\$11,976,322			(\$63,861,893)	(\$42,226,931)	(\$6.62)	(\$4.38)
14. Load management at meters through a dedicated control circuit - Case C	(\$54,203,252)	(\$75,838,214)	\$11,976,322	\$11,976,322			(\$63,861,893)	(\$42,226,931)	(\$6.62)	(\$4.38)
15. Interface for Other Load Control Devices - Case A	(\$172,687,295)	(\$470,195,040)	\$0	\$0	\$227,442,401	\$721,888,806	(\$242,752,639)	\$549,201,511	(\$25.17)	\$56.95
15. Interface for Other Load Control Devices - Case B	(\$172,687,295)	(\$470,195,040)	\$0	\$0	\$227,442,401	\$721,888,806	(\$242,752,639)	\$549,201,511	(\$25.17)	\$56.95
Facilitation of Customer Interaction										
16. Interface to Home Area Network using Open Standard - Case A	(\$245,842,627)	(\$386,763,935)	\$0	\$0	\$227,442,401	\$721,888,806	(\$159,321,534)	\$476,046,179	(\$16.52)	\$49.37
16. Interface to Home Area Network using Open Standard - Case B	(\$245,842,627)	(\$386,763,935)	\$0	\$0	\$227,442,401	\$721,888,806	(\$159,321,534)	\$476,046,179	(\$16.52)	\$49.37
16. Interface to Home Area Network using Open Standard - Case C	(\$446,846,765)	(\$803,214,261)	\$0	\$0	\$368,725,497	\$1,174,437,333	(\$434,488,764)	\$727,590,569	(\$45.06)	\$75.45
17. Provision of an in-home display - Case A					(\$175,421,035)	(\$211,861,592)	(\$211,861,592)	(\$175,421,035)	(\$21.97)	(\$18.19)
17. Provision of an in-home display - Case B					(\$584,736,782)	(\$708,887,856)	(\$708,887,856)	(\$584,736,782)	(\$73.51)	(\$60.64)
17. Provision of an in-home display - Case C					(\$584,736,782)	(\$708,887,856)	(\$708,887,856)	(\$584,736,782)	(\$73.51)	(\$60.64)
18. Interface for Communications from gas and water meters - Case A	(\$190,678,469)	(\$283,094,020)	\$2,271,038	\$2,271,038			(\$280,822,982)	(\$188,407,431)	(\$29.12)	(\$19.54)
18. Interface for Communications from gas and water meters - Case B	(\$190,678,469)	(\$283,094,020)	\$5,078,866	\$5,078,866			(\$278,015,154)	(\$185,599,603)	(\$28.83)	(\$19.25)
Supply and Service Monitoring										
19. Quality of supply and other event recording	(\$67,883,745)	(\$97,314,928)	\$27,758,855	\$152,908,372			(\$69,556,073)	\$85,024,627	(\$7.21)	\$8.82
20. Meter Loss of Supply Detection and Outage Detection	(\$34,199,070)	(\$47,106,574)	\$102,686,665	\$102,686,665			\$55,580,091	\$68,487,595	\$5.76	\$7.10
21. Customer Supply Monitoring	(\$54,687,045)	(\$92,138,298)	\$95,640,124	\$95,640,124			\$3,501,827	\$40,953,079	\$0.36	\$4.25
22. Real time service checking	(\$38,661,749)	(\$56,055,936)	\$36,287,660	\$36,287,660			(\$19,768,277)	(\$2,374,089)	(\$2.05)	(\$0.25)
Standards and Interoperability										
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	(\$292,368,391)	(\$584,736,782)	\$0	\$0			(\$584,736,782)	(\$292,368,391)	(\$60.64)	(\$30.32)
Upgradeability and configurability										
25. Remote reconfiguration	(\$21,515,136)	(\$30,017,359)	\$162,127,582	\$162,127,582			\$132,110,223	\$140,612,446	\$13.70	\$14.58
26. Remote software upgrade	(\$89,361)	(\$29,370,880)	\$225,226,891	\$225,226,891			\$195,856,011	\$225,137,530	\$20.31	\$23.35
27. Separate standard base plate	(\$146,273,556)	(\$567,328,719)	\$120,796,724	\$120,796,724			(\$446,531,995)	(\$25,476,832)	(\$46.31)	(\$2.64)
28. Non meter board installation	(\$1,363,695,536)	(\$1,704,641,760)	\$698,351,139	\$698,351,139			(\$1,006,290,622)	(\$665,344,397)	(\$104.35)	(\$69.00)
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$52,626,310			\$52,626,310	\$52,626,310	\$5.46	\$5.46

**Table G2.2: NPV of net benefits to stakeholder groups by functionality: scenario 2
(including transfers)**

Functionality	Net Customer Benefits		Net Retailer Benefits		Net Networks Benefits		Net Market Benefits	
	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Energy Measurement								
9. Remote reading (daily)	(\$63,507,996)	\$4,784,002	\$30,570,397	\$333,518,356	(\$81,509,824)	\$194,683,831	(\$325,944,834)	\$16,989,148
10. Power factor measurement	\$0	\$0	(\$16,176,068)	(\$8,211,204)	(\$12,968,232)	(\$10,149,052)	(\$268,082)	(\$178,721)
11. Export/import metering	\$0	\$0	\$39,103,893	\$44,249,577	\$0	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	(\$125,476,604)	(\$82,039,014)	\$139,747,435	\$143,130,452	\$0	\$0
12. Remote connect/disconnect - Case B	\$0	\$0	(\$87,838,688)	(\$44,401,098)	\$74,342,436	\$99,151,229	\$0	\$0
13. Supply Capacity Control	\$0	\$0	(\$49,419,687)	(\$43,683,839)	(\$27,033,478)	(\$11,246,064)	(\$268,082)	(\$178,721)
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	(\$23,630,182)	(\$17,894,334)	(\$39,896,608)	(\$24,109,195)	(\$335,102)	(\$223,402)
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	(\$23,630,182)	(\$17,894,334)	(\$39,896,608)	(\$24,109,195)	(\$335,102)	(\$223,402)
15. Interface for Other Load Control Devices - Case A	(\$13,465,839)	\$1,254,898,438	(\$57,286,422)	\$105,911,805	(\$944,056,113)	\$287,605,930	(\$310,732,212)	(\$16,426,715)
15. Interface for Other Load Control Devices - Case B	(\$13,465,839)	\$1,254,898,438	(\$57,286,422)	\$105,911,805	(\$944,056,113)	\$287,605,930	(\$310,732,212)	(\$16,426,715)
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$203,164,922	\$1,283,782,539	(\$178,645,518)	\$11,766,078	(\$955,896,673)	\$279,712,223	(\$310,732,212)	(\$16,426,715)
16. Interface to Home Area Network using Open Standard - Case B	\$203,164,922	\$1,283,782,539	(\$178,645,518)	\$11,766,078	(\$955,896,673)	\$279,712,223	(\$310,732,212)	(\$16,426,715)
16. Interface to Home Area Network using Open Standard - Case C	(\$157,242,380)	\$1,269,588,481	(\$172,977,893)	\$10,316,089	(\$977,536,926)	\$658,295,568	(\$326,292,542)	(\$11,048,591)
17. Provision of an in-home display - Case A	\$0	\$140,434,070	(\$356,200,089)	(\$10,245,176)	(\$101,478,259)	\$128,629,580	(\$256,496,402)	\$68,073,651
17. Provision of an in-home display - Case B	\$0	\$140,434,070	(\$853,226,354)	(\$419,560,924)	(\$101,478,259)	\$128,629,580	(\$256,496,402)	\$68,073,651
17. Provision of an in-home display - Case C	\$0	\$140,434,070	(\$853,226,354)	(\$419,560,924)	(\$101,478,259)	\$128,629,580	(\$256,496,402)	\$68,073,651
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	(\$227,861,569)	(\$170,641,926)	\$0	\$0	(\$52,961,413)	(\$17,765,505)
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	(\$225,053,741)	(\$167,834,098)	\$0	\$0	(\$52,961,413)	(\$17,765,505)
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	(\$4,510,690)	(\$4,510,690)	(\$64,710,281)	\$89,758,718	(\$335,102)	(\$223,402)
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	(\$28,728,713)	(\$20,443,600)	\$84,643,907	\$89,154,596	(\$335,102)	(\$223,402)
21. Customer Supply Monitoring	\$0	\$0	(\$80,526,471)	(\$45,442,264)	\$84,363,400	\$86,618,745	(\$335,102)	(\$223,402)
22. Real time service checking	\$0	\$0	(\$13,433,119)	(\$10,246,537)	(\$6,000,055)	\$8,095,850	(\$335,102)	(\$223,402)
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	(\$584,736,782)	(\$292,368,391)	\$0	\$0	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$150,151,261	\$150,151,261	(\$17,906,997)	(\$9,449,454)	(\$134,041)	(\$89,361)
26. Remote software upgrade	\$0	\$0	\$195,990,052	\$225,226,891	\$0	\$0	(\$134,041)	(\$89,361)
27. Separate standard base plate	\$0	\$0	(\$446,397,954)	(\$25,387,471)	\$0	\$0	(\$134,041)	(\$89,361)
28. Non meter board installation	\$0	\$0	(\$1,006,156,581)	(\$665,255,037)	\$0	\$0	(\$134,041)	(\$89,361)
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$52,626,310	\$0	\$0	\$0	\$0

**Table G2.3: NPV of benefits and costs by functionality: lower bound scenario 2
(including transfers)**

Functionality	Customer		Retailer		Networks		Market	
	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs
Energy Measurement								
9. Remote reading (daily)	\$0	\$63,507,996	\$102,966,420	\$16,669,176	\$0	\$9,021,379	\$0	\$20,205,949
10. Power factor measurement	\$0	\$0	\$0	\$8,211,204	\$0	\$10,149,052	\$0	\$178,721
11. Export/import metering	\$0	\$0	\$44,249,577	\$0	\$0	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$117,757,320	\$153,279,503	\$10,149,052	\$0	\$0
12. Remote connect/disconnect - Case B	\$0	\$0	\$73,356,222	\$117,757,320	\$153,279,503	\$54,128,275	\$0	\$0
13. Supply Capacity Control	\$0	\$0	\$0	\$43,683,839	\$20,328,762	\$31,574,827	\$0	\$178,721
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	\$0	\$17,894,334	\$11,976,322	\$36,085,516	\$0	\$223,402
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	\$0	\$17,894,334	\$11,976,322	\$36,085,516	\$0	\$223,402
15. Interface for Other Load Control Devices - Case A	\$419,795,684	\$144,420,508	\$40,818,618	\$40,236,792	\$190,191,597	\$346,532,895	\$36,450,439	\$101,311,038
15. Interface for Other Load Control Devices - Case B	\$419,795,684	\$144,420,508	\$40,818,618	\$40,236,792	\$190,191,597	\$346,532,895	\$36,450,439	\$101,311,038
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$419,795,684	\$115,536,406	\$40,818,618	\$134,382,519	\$190,191,597	\$354,426,601	\$36,450,439	\$101,311,038
16. Interface to Home Area Network using Open Standard - Case B	\$419,795,684	\$115,536,406	\$40,818,618	\$134,382,519	\$190,191,597	\$354,426,601	\$36,450,439	\$101,311,038
16. Interface to Home Area Network using Open Standard - Case C	\$475,838,707	\$316,540,543	\$56,709,516	\$137,449,500	\$317,194,538	\$399,019,560	\$50,419,008	\$125,273,433
17. Provision of an in-home display - Case A	\$0	\$0	\$0	\$175,421,035	\$0	\$0	\$0	\$0
17. Provision of an in-home display - Case B	\$0	\$0	\$0	\$584,736,782	\$0	\$0	\$0	\$0
17. Provision of an in-home display - Case C	\$0	\$0	\$0	\$584,736,782	\$0	\$0	\$0	\$0
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$2,271,038	\$172,912,964	\$0	\$0	\$0	\$17,765,505
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$5,078,866	\$172,912,964	\$0	\$0	\$0	\$17,765,505
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$4,510,690	\$27,758,855	\$63,149,654	\$0	\$223,402
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	\$0	\$20,443,600	\$102,686,665	\$13,532,069	\$0	\$223,402
21. Customer Supply Monitoring	\$0	\$0	\$0	\$45,442,264	\$95,640,124	\$9,021,379	\$0	\$223,402
22. Real time service checking	\$0	\$0	\$0	\$10,246,537	\$36,287,660	\$28,191,810	\$0	\$223,402
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$292,368,391	\$0	\$0	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$150,151,261	\$0	\$11,976,322	\$21,425,775	\$0	\$89,361
26. Remote software upgrade	\$0	\$0	\$225,226,891	\$0	\$0	\$0	\$0	\$89,361
27. Separate standard base plate	\$0	\$0	\$120,796,724	\$146,184,195	\$0	\$0	\$0	\$89,361
28. Non meter board installation	\$0	\$0	\$698,351,139	\$1,363,606,175	\$0	\$0	\$0	\$89,361
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$0	\$0	\$0	\$0	\$0

**Table G2.4: NPV of benefits and costs by functionality: upper bound scenario 2
(including transfers)**

Functionality	Customer		Retailer		Networks		Market	
	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs
Energy Measurement								
9. Remote reading (daily)	\$68,291,997	\$63,507,996	\$350,187,532	\$72,396,024	\$203,705,210	\$81,509,824	\$37,195,097	\$325,944,834
10. Power factor measurement	\$0	\$0	\$0	\$16,176,068	\$0	\$12,968,232	\$0	\$268,082
11. Export/import metering	\$0	\$0	\$44,249,577	\$5,145,684	\$0	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$161,194,910	\$153,279,503	\$13,532,069	\$0	\$0
12. Remote connect/disconnect - Case B	\$0	\$0	\$73,356,222	\$161,194,910	\$153,279,503	\$78,937,067	\$0	\$0
13. Supply Capacity Control	\$0	\$0	\$0	\$49,419,687	\$20,328,762	\$47,362,240	\$0	\$268,082
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	\$0	\$23,630,182	\$11,976,322	\$51,872,930	\$0	\$335,102
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	\$0	\$23,630,182	\$11,976,322	\$51,872,930	\$0	\$335,102
15. Interface for Other Load Control Devices - Case A	\$1,399,318,945	\$433,261,523	\$146,148,596	\$98,105,040	\$634,138,824	\$1,134,247,709	\$84,884,323	\$347,182,651
15. Interface for Other Load Control Devices - Case B	\$1,399,318,945	\$433,261,523	\$146,148,596	\$98,105,040	\$634,138,824	\$1,134,247,709	\$84,884,323	\$347,182,651
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$1,399,318,945	\$216,630,762	\$146,148,596	\$219,464,136	\$634,138,824	\$1,146,088,270	\$84,884,323	\$347,182,651
16. Interface to Home Area Network using Open Standard - Case B	\$1,399,318,945	\$216,630,762	\$146,148,596	\$219,464,136	\$634,138,824	\$1,146,088,270	\$84,884,323	\$347,182,651
16. Interface to Home Area Network using Open Standard - Case C	\$1,586,129,024	\$633,081,087	\$147,765,589	\$229,687,409	\$1,057,315,127	\$1,294,731,464	\$114,224,841	\$376,711,549
17. Provision of an in-home display - Case A	\$140,434,070	\$0	\$165,175,858	\$356,200,089	\$128,629,580	\$101,478,259	\$68,073,651	\$256,496,402
17. Provision of an in-home display - Case B	\$140,434,070	\$0	\$165,175,858	\$853,226,354	\$128,629,580	\$101,478,259	\$68,073,651	\$256,496,402
17. Provision of an in-home display - Case C	\$140,434,070	\$0	\$165,175,858	\$853,226,354	\$128,629,580	\$101,478,259	\$68,073,651	\$256,496,402
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$2,271,038	\$230,132,607	\$0	\$0	\$0	\$52,961,413
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$5,078,866	\$230,132,607	\$0	\$0	\$0	\$52,961,413
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$4,510,690	\$152,908,372	\$92,469,136	\$0	\$335,102
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	\$0	\$28,728,713	\$102,686,665	\$18,042,758	\$0	\$335,102
21. Customer Supply Monitoring	\$0	\$0	\$0	\$80,526,471	\$95,640,124	\$11,276,724	\$0	\$335,102
22. Real time service checking	\$0	\$0	\$0	\$13,433,119	\$36,287,660	\$42,287,715	\$0	\$335,102
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$584,736,782	\$0	\$0	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$150,151,261	\$0	\$11,976,322	\$29,883,318	\$0	\$134,041
26. Remote software upgrade	\$0	\$0	\$225,226,891	\$29,236,839	\$0	\$0	\$0	\$134,041
27. Separate standard base plate	\$0	\$0	\$120,796,724	\$567,194,678	\$0	\$0	\$0	\$134,041
28. Non meter board installation	\$0	\$0	\$698,351,139	\$1,704,507,719	\$0	\$0	\$0	\$134,041
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$0	\$0	\$0	\$0	\$0

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Measurement																	
9. Remote reading (daily)																	
Consumer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$63,507,996		\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888
Retailer																	
Benefits	\$102,966,420		\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220
Costs	\$16,669,176	\$11,086,449	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$6,097,547	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967	\$1,662,967
Network																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$9,021,379	\$6,000,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$3,300,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Market																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$20,205,949	\$29,716	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,900,753	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866	\$3,888,866
Total																	
Benefits	\$102,966,420																
Costs	\$109,404,500																
Net Benefits	-\$6,438,079																
10. Power factor measurement																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$8,211,204	\$3,750,000	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$2,558,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201	\$1,058,201
Network																	
Benefits																	
Costs	\$10,149,052	\$6,750,000	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$3,712,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500
Market																	
Benefits																	
Costs	\$178,721	\$118,865	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$65,376	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830
Total																	
Benefits	\$0																
Costs	\$18,538,977																
Net Benefits	-\$18,538,977																
11. Export/import metering																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$44,249,577		\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$44,249,577																
Costs	\$0																
Net Benefits	\$44,249,577																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Switching & Load Management																	
12. Remote connect/disconnect - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$117,757,320	\$33,000,000	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$31,278,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$10,149,052	\$6,750,000	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$3,712,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$188,997,809																
Costs	\$127,906,372																
Net Benefits	\$61,091,437																
12. Remote connect/disconnect - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$73,356,222		\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315
Costs	\$117,757,320	\$33,000,000	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$31,278,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271	\$18,078,271
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$54,128,275	\$36,000,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$19,800,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$226,635,725																
Costs	\$171,885,595																
Net Benefits	\$54,750,130																
13. Supply capacity control																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$43,683,839	\$29,053,544	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$15,979,449	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032	\$4,358,032
Network																	
Benefits	\$20,328,762		\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680
Costs	\$31,574,827	\$21,000,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$11,550,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000	\$3,150,000
Market																	
Benefits																	
Costs	\$178,721	\$118,865	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$65,376	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830	\$17,830
Tonnes																	
Total																	
Benefits	\$20,328,762																
Costs	\$75,437,387																
Net Benefits	-\$55,108,625																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
14. Load management at meters through a dedicated control circuit - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$17,894,334	\$11,901,285	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$6,545,707	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$36,085,516	\$24,000,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$13,200,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$11,976,322																
Costs	\$54,203,252																
Net Benefits	-\$42,226,931																
14. Load management at meters through a dedicated control circuit - Case C																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$17,894,334	\$11,901,285	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$6,545,707	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193	\$1,785,193
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$36,085,516	\$24,000,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$13,200,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$11,976,322																
Costs	\$54,203,252																
Net Benefits	-\$42,226,931																
15. Interface for other load control devices - Case A																	
Consumer																	
Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Costs	\$144,420,508		\$69,830,296	\$15,005,185	\$16,957,365	\$18,920,486	\$20,901,207	\$22,679,879	\$24,548,154	\$25,172,370	\$25,777,845	\$26,369,250	\$26,954,898	\$27,520,249	\$28,069,936	\$28,602,534	\$29,116,634
Retailer																	
Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Costs	\$40,236,792	\$11,901,285	\$4,607,107	\$5,038,676	\$5,464,483	\$5,894,549	\$6,328,534	\$6,717,363	\$11,059,579	\$6,415,885	\$6,529,678	\$6,641,234	\$6,751,899	\$6,859,284	\$6,964,183	\$7,066,343	\$7,165,516
Network																	
Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Costs	\$346,532,895	\$6,750,000	\$40,566,094	\$46,678,834	\$52,627,457	\$58,614,908	\$64,656,225	\$70,078,683	\$76,049,274	\$75,194,655	\$76,986,039	\$78,736,989	\$80,471,472	\$82,147,466	\$83,778,461	\$85,360,281	\$86,888,808
Market																	
Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269
Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$20,129,830	\$20,389,706	\$20,700,738	\$21,005,658	\$21,308,145	\$21,601,663	\$21,888,386	\$22,167,625	\$22,438,696
Total																	
Benefits	\$687,256,338																
Costs	\$632,501,232																
Net Benefits	\$54,755,106																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
15. Interface for other load control devices - Case B																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$144,420,508		\$69,830,296	\$15,005,185	\$16,957,365	\$18,920,486	\$20,901,207	\$22,679,879	\$24,548,154	\$25,172,370	\$25,777,845	\$26,369,250	\$26,954,898	\$27,520,249	\$28,069,936	\$28,602,534	\$29,116,634
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$40,236,792	\$11,901,285	\$4,607,107	\$5,038,676	\$5,464,483	\$5,894,549	\$6,328,534	\$6,717,363	\$7,064,396	\$7,361,885	\$7,629,678	\$7,864,396	\$8,071,899	\$8,259,284	\$8,426,183	\$8,572,343	\$8,698,516
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$346,532,895	\$6,750,000	\$40,566,094	\$46,678,834	\$52,627,457	\$58,614,908	\$64,656,225	\$70,078,683	\$76,049,274	\$81,519,655	\$86,986,039	\$92,478,989	\$98,047,472	\$103,714,466	\$109,487,461	\$115,360,281	\$121,338,808
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$22,298,830	\$23,398,706	\$24,500,037	\$25,613,830	\$26,738,972	\$27,875,269	\$29,022,725	\$30,181,343	\$31,351,116
Total Benefits	\$687,256,338																
Total Costs	\$632,501,232																
Net Benefits	\$54,755,106																
Facilitation of Customer interaction																	
16. Interface to Home Area Network using open standard - Case A																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$115,536,406		\$55,864,237	\$12,004,148	\$13,565,892	\$15,136,389	\$16,720,966	\$18,143,903	\$19,638,523	\$20,137,896	\$20,622,276	\$21,095,400	\$21,563,919	\$22,016,199	\$22,455,949	\$22,882,027	\$23,293,307
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$134,382,519	\$12,292,251	\$22,691,259	\$23,122,828	\$23,548,635	\$23,978,701	\$24,412,686	\$24,801,515	\$25,300,118	\$25,800,337	\$26,300,037	\$26,800,337	\$27,300,037	\$27,800,337	\$28,300,037	\$28,800,337	\$29,300,037
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$354,426,601	\$12,000,000	\$41,353,594	\$47,466,334	\$53,414,957	\$59,402,408	\$65,443,725	\$70,866,183	\$76,936,774	\$82,982,155	\$89,000,539	\$95,024,489	\$101,075,972	\$107,148,966	\$113,244,966	\$119,364,966	\$125,508,966
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$22,298,830	\$23,398,706	\$24,500,037	\$25,613,830	\$26,738,972	\$27,875,269	\$29,022,725	\$30,181,343	\$31,351,116
Total Benefits	\$687,256,338																
Total Costs	\$705,656,564																
Net Benefits	-\$18,400,226																
16. Interface to Home Area Network using open standard - Case B																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$115,536,406		\$55,864,237	\$12,004,148	\$13,565,892	\$15,136,389	\$16,720,966	\$18,143,903	\$19,638,523	\$20,137,896	\$20,622,276	\$21,095,400	\$21,563,919	\$22,016,199	\$22,455,949	\$22,882,027	\$23,293,307
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$134,382,519	\$12,292,251	\$22,691,259	\$23,122,828	\$23,548,635	\$23,978,701	\$24,412,686	\$24,801,515	\$25,300,118	\$25,800,337	\$26,300,037	\$26,800,337	\$27,300,037	\$27,800,337	\$28,300,037	\$28,800,337	\$29,300,037
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$354,426,601	\$12,000,000	\$41,353,594	\$47,466,334	\$53,414,957	\$59,402,408	\$65,443,725	\$70,866,183	\$76,936,774	\$82,982,155	\$89,000,539	\$95,024,489	\$101,075,972	\$107,148,966	\$113,244,966	\$119,364,966	\$125,508,966
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$22,298,830	\$23,398,706	\$24,500,037	\$25,613,830	\$26,738,972	\$27,875,269	\$29,022,725	\$30,181,343	\$31,351,116
Total Benefits	\$687,256,338																
Total Costs	\$705,656,564																
Net Benefits	-\$18,400,226																
16. Interface to Home Area Network using open standard - Case C																	
Consumer Benefits	\$475,838,707		\$82,346,338	\$84,452,162	\$86,488,922	\$88,501,660	\$90,486,474	\$92,407,388	\$94,279,698	\$96,109,126	\$97,904,468	\$99,672,827	\$101,422,041	\$103,152,111	\$104,872,294	\$106,583,555	\$108,285,884
Consumer Costs	\$316,540,543		\$53,280,603	\$54,635,435	\$55,949,590	\$57,233,205	\$58,504,328	\$59,731,394	\$61,307,385	\$62,930,926	\$64,444,614	\$65,923,124	\$67,387,246	\$68,800,622	\$70,174,841	\$71,506,334	\$72,791,584
Retailer Benefits	\$56,709,516		\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046
Retailer Costs	\$137,449,500	\$12,292,251	\$24,496,124	\$24,614,576	\$24,729,955	\$24,843,034	\$24,955,203	\$25,064,039	\$25,169,938	\$25,272,907	\$25,373,956	\$25,472,985	\$25,570,994	\$25,667,983	\$25,763,952	\$25,858,901	\$25,952,830
Network Benefits	\$317,194,538		\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886
Network Costs	\$399,019,560	\$12,000,000	\$66,873,031	\$68,536,633	\$70,152,546	\$71,733,219	\$73,299,269	\$74,813,865	\$76,277,907	\$77,692,494	\$79,057,631	\$80,372,218	\$81,636,355	\$82,849,042	\$84,011,279	\$85,133,066	\$86,214,303
Market Benefits	\$50,419,008		\$12,043,192	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819
Market Costs	\$125,273,433	\$148,581	\$23,380,626	\$23,704,395	\$24,019,764	\$24,328,849	\$24,635,444	\$24,932,927	\$25,231,448	\$25,529,907	\$25,828,316	\$26,126,675	\$26,425,084	\$26,723,443	\$27,021,752	\$27,320,111	\$27,618,470
Total Benefits	\$900,161,769																
Total Costs	\$978,283,036																
Net Benefits	-\$78,121,267																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
17. Provision of an in-home display - Case A																	
Consumer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumer Costs	\$0																
Retailer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Costs	\$175,421,035		\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826
Network Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Benefits	\$0																
Total Costs	\$175,421,035																
Net Benefits	-\$175,421,035																
17. Provision of an in-home display - Case B																	
Consumer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumer Costs	\$0																
Retailer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Costs	\$584,736,782		\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Network Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Benefits	\$0																
Total Costs	\$584,736,782																
Net Benefits	-\$584,736,782																
17. Provision of an in-home display - Case C																	
Consumer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumer Costs	\$0																
Retailer Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer Costs	\$584,736,782		\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Network Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Benefits	\$0																
Total Costs	\$584,736,782																
Net Benefits	-\$584,736,782																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
18. Interface for communications from gas and water meters - Case A																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$2,271,038		\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554
Costs	\$172,912,964	\$45,000,000	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$45,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$17,765,505	\$148,581	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,461,502	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070
Total																	
Benefits	\$2,271,038																
Costs	\$190,678,469																
Net Benefits	-\$188,407,431																
18. Interface for communications from gas and water meters - Case B																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$5,078,866		\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529
Costs	\$172,912,964	\$45,000,000	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$45,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696	\$27,028,696
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$17,765,505	\$148,581	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,461,502	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070	\$3,402,070
Total																	
Benefits	\$5,078,866																
Costs	\$190,678,469																
Net Benefits	-\$185,599,603																
Supply and service monitoring																	
19. Quality of supply and other event recording																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$4,510,690	\$3,000,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$1,650,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000
Network																	
Benefits	\$27,758,855		\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212
Costs	\$63,149,654	\$42,000,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$23,100,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000
Market																	
Benefits																	
Costs	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total																	
Benefits	\$27,758,855																
Costs	\$67,883,745																
Net Benefits	-\$40,124,890																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
20. Meter loss of supply detection and outage detection																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs	\$20,443,600	\$13,596,768	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$7,478,222	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515	\$2,039,515
Market																	
Benefits																	
Costs																	
Total																	
Benefits	\$102,686,665		\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321
Costs	\$13,532,069	\$9,000,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$4,950,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000
Net Benefits	\$223,402	\$148,581	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$81,720	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287	\$22,287
Total	\$102,686,665																
Costs	\$34,199,070																
Net Benefits	\$68,487,595																
21. Customer supply monitoring																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$45,442,264	\$3,000,000	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$9,536,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159	\$8,336,159
Network																	
Benefits	\$95,640,124		\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686
Costs	\$9,021,379	\$6,000,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$3,300,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Market																	
Benefits																	
Costs																	
Total																	
Benefits	\$95,640,124																
Costs	\$54,687,045																
Net Benefits	\$40,953,079																
22. Real time service checking																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$10,246,537	\$6,814,837	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$3,748,160	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225	\$1,022,225
Network																	
Benefits	\$36,287,660		\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431
Costs	\$28,191,810	\$18,750,000	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$10,312,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500	\$2,812,500
Market																	
Benefits																	
Costs																	
Total																	
Benefits	\$36,287,660																
Costs	\$38,661,749																
Net Benefits	-\$2,374,089																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Standards and interoperability																	
23. Interoperability for meters/devices at application layer																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits	n/a																
Costs	n/a																
Net Benefits	n/a																
24. Hardware component interoperability																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$292,368,391	\$0	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$292,368,391																
Net Benefits	-\$292,368,391																
Upgradeability and configurability																	
25. Remote reconfiguration																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$150,151,261		\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$21,425,775	\$14,250,000	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$7,837,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$162,127,582																
Costs	\$21,515,136																
Net Benefits	\$140,612,446																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
26. Remote software upgrade																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$225,226,891		\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$225,226,891																
Costs	\$89,361																
Net Benefits	\$225,137,530																
27. Separate standard base plate																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$120,796,724		\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530
Costs	\$146,184,195	\$0	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$120,796,724																
Costs	\$146,273,556																
Net Benefits	-\$25,476,832																
28. Non meter board installation																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$698,351,139		\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145
Costs	\$1,363,606,175	\$0	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$698,351,139																
Costs	\$1,363,695,536																
Net Benefits	-\$665,344,397																

Table G2.5: Low estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
29. Plug and Play device commissioning																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$52,626,310		\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$52,626,310																
Costs	\$0																
Net Benefits	\$52,626,310																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Measurement																	
9. Remote reading (daily)																	
Consumer																	
Benefits	\$68,291,997		\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607
Costs	\$63,507,996		\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888
Retailer																	
Benefits	\$350,187,532		\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544
Costs	\$72,396,024	\$32,736,761	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$22,470,126	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422	\$9,375,422
Network																	
Benefits	\$203,705,210		\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250
Costs	\$81,509,824	\$9,000,000	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$18,047,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063
Market																	
Benefits	\$37,195,097		\$5,808,357	\$4,165,138	\$4,165,138	\$4,165,138	\$4,165,138	\$4,165,138	\$11,140,121	\$11,154,274	\$11,154,274	\$11,154,274	\$11,154,274	\$6,967,896	\$6,967,896	\$6,967,896	\$6,967,896
Costs	\$325,944,834	\$44,574	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,810,382	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552	\$62,792,552
Total																	
Benefits	\$659,379,836																
Costs	\$543,358,677																
Net Benefits	\$116,021,159																
10. Power factor measurement																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$16,176,068	\$5,625,000	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$4,580,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854	\$2,330,854
Network																	
Benefits																	
Costs	\$12,968,232	\$8,625,000	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$4,743,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750
Market																	
Benefits																	
Costs	\$268,082	\$178,298	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$98,064	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745
Total																	
Benefits	\$0																
Costs	\$29,412,383																
Net Benefits	-\$29,412,383																
11. Export/import metering																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$44,249,577		\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428
Costs	\$5,145,684	\$0	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$44,249,577																
Costs	\$5,145,684																
Net Benefits	\$39,103,893																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Switching & Load Management																	
12. Remote connect/disconnect - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$161,194,910	\$33,000,000	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$39,647,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$13,532,069	\$9,000,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$4,950,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$188,997,809																
Costs	\$174,726,979																
Net Benefits	\$14,270,831																
12. Remote connect/disconnect - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$73,356,222		\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315
Costs	\$161,194,910	\$33,000,000	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$39,647,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257	\$26,447,257
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$78,937,067	\$52,500,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$28,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$226,635,725																
Costs	\$240,131,977																
Net Benefits	-\$13,496,252																
13. Supply capacity control																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$49,419,687	\$32,868,380	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$18,077,609	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257	\$4,930,257
Network																	
Benefits	\$20,328,762		\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680
Costs	\$47,362,240	\$31,500,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$17,325,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000	\$4,725,000
Market																	
Benefits																	
Costs	\$268,082	\$178,298	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$98,064	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745	\$26,745
Tonnes																	
Total																	
Benefits	\$20,328,762																
Costs	\$97,050,009																
Net Benefits	-\$76,721,247																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
14. Load management at meters through a dedicated control circuit - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$23,630,182	\$15,716,122	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$8,643,867	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$51,872,930	\$34,500,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$18,975,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$11,976,322																
Costs	\$75,838,214																
Net Benefits	-\$63,861,893																
14. Load management at meters through a dedicated control circuit - Case C																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$23,630,182	\$15,716,122	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$8,643,867	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418	\$2,357,418
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$51,872,930	\$34,500,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$18,975,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$11,976,322																
Costs	\$75,838,214																
Net Benefits	-\$63,861,893																
15. Interface for other load control devices - Case A																	
Consumer																	
Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Costs	\$433,261,523		\$209,490,889	\$45,015,555	\$50,872,096	\$56,761,457	\$62,703,621	\$68,039,636	\$73,644,462	\$75,517,111	\$77,333,536	\$79,107,749	\$80,864,695	\$82,560,746	\$84,209,809	\$85,807,601	\$87,349,901
Retailer																	
Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Costs	\$98,105,040	\$15,716,122	\$11,763,800	\$13,202,363	\$14,621,720	\$16,055,273	\$17,501,888	\$18,797,987	\$23,690,108	\$17,793,060	\$18,172,368	\$18,544,221	\$18,913,107	\$19,271,056	\$19,620,719	\$19,961,254	\$20,291,829
Network																	
Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Costs	\$1,134,247,709	\$8,625,000	\$133,139,064	\$153,514,865	\$173,343,606	\$193,301,776	\$213,439,498	\$231,514,359	\$245,866,329	\$248,567,601	\$254,538,880	\$260,375,380	\$266,156,990	\$271,743,635	\$277,180,287	\$282,453,021	\$287,548,110
Market																	
Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total																	
Benefits	\$2,264,490,689																
Costs	\$2,012,796,923																
Net Benefits	\$251,693,766																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
15. Interface for other load control devices - Case B																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$433,261,523		\$209,490,889	\$45,015,555	\$50,872,096	\$56,761,457	\$62,703,621	\$68,039,636	\$73,644,462	\$75,517,111	\$77,333,536	\$79,107,749	\$80,864,695	\$82,560,746	\$84,209,809	\$85,807,601	\$87,349,901
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$98,105,040	\$15,716,122	\$11,763,800	\$13,202,363	\$14,621,720	\$16,055,273	\$17,501,888	\$18,797,987	\$23,690,108	\$17,793,060	\$18,172,368	\$18,544,221	\$18,913,107	\$19,271,056	\$19,620,719	\$19,961,254	\$20,291,829
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,134,247,709	\$8,625,000	\$133,139,064	\$153,514,865	\$173,343,606	\$193,301,776	\$213,439,498	\$231,514,359	\$245,866,329	\$248,567,601	\$254,538,880	\$260,375,380	\$266,156,990	\$271,743,835	\$277,180,287	\$282,453,021	\$287,548,110
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$2,012,796,923																
Net Benefits	\$251,693,766																
Facilitation of Customer interaction																	
16. Interface to Home Area Network using open standard - Case A																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$216,630,762		\$104,745,444	\$22,507,778	\$25,436,048	\$28,380,729	\$31,351,810	\$34,019,818	\$36,822,231	\$37,758,556	\$38,666,768	\$39,553,875	\$40,432,348	\$41,280,373	\$42,104,905	\$42,903,800	\$43,674,951
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$219,464,136	\$18,650,312	\$34,735,813	\$36,174,376	\$37,593,732	\$39,027,286	\$40,473,900	\$41,769,999	\$47,835,797	\$40,765,072	\$41,144,380	\$41,516,234	\$41,885,119	\$42,243,069	\$42,592,731	\$42,933,266	\$43,263,841
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,146,088,270	\$16,500,000	\$134,320,314	\$154,696,115	\$174,524,856	\$194,483,026	\$214,620,748	\$232,695,609	\$250,197,579	\$249,748,851	\$255,720,130	\$261,556,630	\$267,338,240	\$272,924,885	\$278,361,537	\$283,634,271	\$288,729,360
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$1,929,365,818																
Net Benefits	\$335,124,871																
16. Interface to Home Area Network using open standard - Case B																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$216,630,762		\$104,745,444	\$22,507,778	\$25,436,048	\$28,380,729	\$31,351,810	\$34,019,818	\$36,822,231	\$37,758,556	\$38,666,768	\$39,553,875	\$40,432,348	\$41,280,373	\$42,104,905	\$42,903,800	\$43,674,951
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$219,464,136	\$18,650,312	\$34,735,813	\$36,174,376	\$37,593,732	\$39,027,286	\$40,473,900	\$41,769,999	\$47,835,797	\$40,765,072	\$41,144,380	\$41,516,234	\$41,885,119	\$42,243,069	\$42,592,731	\$42,933,266	\$43,263,841
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,146,088,270	\$16,500,000	\$134,320,314	\$154,696,115	\$174,524,856	\$194,483,026	\$214,620,748	\$232,695,609	\$250,197,579	\$249,748,851	\$255,720,130	\$261,556,630	\$267,338,240	\$272,924,885	\$278,361,537	\$283,634,271	\$288,729,360
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$1,929,365,818																
Net Benefits	\$335,124,871																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
16. Interface to Home Area Network using open standard - Case C																	
Consumer																	
Benefits	\$1,586,129,024		\$274,487,795	\$281,507,206	\$288,329,407	\$295,005,533	\$301,621,581	\$308,024,628	\$298,265,659	\$305,983,753	\$313,488,226	\$320,836,090	\$328,120,219	\$335,173,469	\$342,060,370	\$348,764,313	\$355,268,851
Costs	\$633,081,087		\$106,561,206	\$109,270,871	\$111,899,180	\$114,466,410	\$117,008,656	\$119,462,788	\$122,740,769	\$125,861,852	\$128,889,227	\$131,846,249	\$134,774,492	\$137,601,244	\$140,349,682	\$143,012,668	\$145,583,169
Retailer																	
Benefits	\$147,765,589		\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537
Costs	\$229,687,409	\$18,650,312	\$40,752,027	\$41,146,867	\$41,531,463	\$41,908,396	\$42,282,292	\$42,645,077	\$47,835,797	\$40,765,072	\$41,144,380	\$41,516,234	\$41,885,119	\$42,243,069	\$42,592,731	\$42,933,266	\$43,263,841
Network																	
Benefits	\$1,057,315,127		\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621
Costs	\$1,294,731,464	\$16,500,000	\$219,385,102	\$224,930,444	\$230,316,819	\$235,585,729	\$240,805,897	\$245,854,550	\$251,168,025	\$250,832,359	\$256,920,749	\$262,880,359	\$268,787,315	\$274,504,220	\$280,085,715	\$285,518,327	\$290,788,718
Market																	
Benefits	\$114,224,841		\$33,571,098	\$48,253,352	\$48,253,352	\$48,253,352	\$48,253,352	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979
Costs	\$376,711,549	\$222,872	\$70,099,838	\$71,179,068	\$72,230,297	\$73,260,581	\$74,282,563	\$75,274,174	\$69,160,283	\$70,135,494	\$71,172,270	\$72,188,670	\$73,196,958	\$74,175,353	\$75,131,097	\$76,061,892	\$76,965,463
Total																	
Benefits	\$2,905,434,582																
Costs	\$2,534,211,509																
Net Benefits	\$371,223,072																
17. Provision of an in-home display - Case A																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0																
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$356,200,089		\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$101,478,259		\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402		\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$714,174,751																
Net Benefits	-\$211,861,592																
17. Provision of an in-home display - Case B																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0																
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$853,226,354		\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$101,478,259		\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402		\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$1,211,201,015																
Net Benefits	-\$708,887,856																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
17. Provision of an in-home display - Case C																	
Consumer Benefits	\$140,434,070																
Consumer Costs	\$0		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Retailer Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Retailer Costs	\$853,226,354		\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471
Network Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Network Costs	\$101,478,259		\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501
Market Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649
Market Costs	\$256,496,402		\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$1,211,201,015																
Net Benefits	-\$708,887,856																
18. Interface for communications from gas and water meters - Case A																	
Consumer Benefits	\$0																
Consumer Costs	\$0																
Retailer Benefits	\$2,271,038		\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554
Retailer Costs	\$230,132,607	\$67,500,000	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$61,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072
Network Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0																
Market Costs	\$52,961,413	\$222,872	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,261,927	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779
Total																	
Benefits	\$2,271,038																
Costs	\$283,094,020																
Net Benefits	-\$280,822,982																
18. Interface for communications from gas and water meters - Case B																	
Consumer Benefits	\$0																
Consumer Costs	\$0																
Retailer Benefits	\$5,078,866		\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529
Retailer Costs	\$230,132,607	\$67,500,000	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$61,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072	\$34,910,072
Network Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0																
Market Costs	\$52,961,413	\$222,872	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,261,927	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779	\$10,172,779
Total																	
Benefits	\$5,078,866																
Costs	\$283,094,020																
Net Benefits	-\$278,015,154																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Supply and service monitoring																	
19. Quality of supply and other event recording																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits	\$4,510,690	\$3,000,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$1,650,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000
Costs																	
Market																	
Benefits	\$152,908,372		\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381
Costs	\$92,469,136	\$61,500,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$33,825,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000
Total																	
Benefits	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Costs	\$152,908,372																
Net Benefits	\$97,314,928																
Net Benefits	\$55,593,444																
20. Meter loss of supply detection and outage detection																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$28,728,713	\$19,107,088	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$10,508,898	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063	\$2,866,063
Costs																	
Network																	
Benefits	\$102,686,665		\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321
Costs	\$18,042,758	\$12,000,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$6,600,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$102,686,665																
Costs	\$47,106,574																
Net Benefits	\$55,580,091																
21. Customer supply monitoring																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$80,526,471	\$3,000,000	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$16,295,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725	\$15,095,725
Costs																	
Network																	
Benefits	\$95,640,124		\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686
Costs	\$11,276,724	\$7,500,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$4,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000
Market																	
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$95,640,124																
Costs	\$92,138,298																
Net Benefits	\$3,501,827																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
22. Real time service checking																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network	\$13,433,119	\$8,934,190	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$4,913,805	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129	\$1,340,129
Benefits																	
Costs	\$36,287,660		\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431
Market	\$42,287,715	\$28,125,000	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$15,468,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750	\$4,218,750
Benefits																	
Costs	\$335,102	\$222,872	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$122,580	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431	\$33,431
Total																	
Benefits	\$36,287,660																
Costs	\$56,055,936																
Net Benefits	-\$19,768,277																
Standards and interoperability																	
23. Interoperability for meters/devices at application layer																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits	n/a																
Costs	n/a																
Net Benefits	n/a																
24. Hardware component interoperability																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$584,736,782	\$0	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$584,736,782																
Net Benefits	-\$584,736,782																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Upgradeability and configurability																	
25. Remote reconfiguration																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$150,151,261		\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$29,883,318	\$19,875,000	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$10,931,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$162,127,582																
Costs	\$30,017,359																
Net Benefits	\$132,110,223																
26. Remote software upgrade																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$225,226,891		\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766
Costs	\$29,236,839	\$0	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$225,226,891																
Costs	\$29,370,880																
Net Benefits	\$195,856,011																
27. Separate standard base plate																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$120,796,724		\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530
Costs	\$567,194,678	\$0	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$120,796,724																
Costs	\$567,328,719																
Net Benefits	-\$446,531,995																

Table G2.6: High estimate of benefits and costs: scenario 2

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
28. Non meter board installation																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$698,351,139		\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145
Costs	\$1,704,507,719	\$0	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$698,351,139																
Costs	\$1,704,641,760																
Net Benefits	-\$1,006,290,622																
29. Plug and Play device commissioning																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$52,626,310		\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$52,626,310																
Costs	\$0																
Net Benefits	\$52,626,310																

Tables G3.1 – G3.6

**Table G3.1: NPV of additional functionality to smart meter infrastructure: scenario 4
(excluding transfers)**

Functionality	Impact of Transitional Infrastructure		Impact to Existing Business Processes		Demand Response		Net Benefits		Net Benefits (per meter)	
	Lower	Upper	Lower	Upper	Low	High	Lower	Upper	Lower	Upper
Energy Measurement										
9. Remote reading (daily)	(\$25,735,236)	(\$62,820,877)	\$19,297,156	\$22,926,185	\$0	\$155,915,851	(\$43,523,721)	\$153,106,801	(\$4.51)	\$15.88
10. Power factor measurement	(\$18,538,977)	(\$29,412,383)	\$0	\$0			(\$29,412,383)	(\$18,538,977)	(\$3.05)	(\$1.92)
11. Export/Import metering	\$0	(\$5,145,684)	\$44,249,577	\$44,249,577			\$39,103,893	\$44,249,577	\$4.06	\$4.59
Switching & Load Management										
12. Remote connect/disconnect - Case A	(\$127,906,372)	(\$174,726,979)	\$188,997,809	\$188,997,809			\$14,270,831	\$61,091,437	\$1.48	\$6.34
12. Remote connect/disconnect - Case B	(\$171,885,595)	(\$240,131,977)	\$226,635,725	\$226,635,725			(\$13,496,252)	\$54,750,130	(\$1.40)	\$5.68
13. Supply Capacity Control	(\$79,948,077)	(\$101,560,699)	\$20,328,762	\$20,328,762			(\$81,231,936)	(\$59,619,314)	(\$8.42)	(\$6.18)
14. Load management at meters through a dedicated control circuit - Case B	(\$54,203,252)	(\$75,838,214)	\$11,976,322	\$11,976,322			(\$63,861,893)	(\$42,226,931)	(\$6.62)	(\$4.38)
14. Load management at meters through a dedicated control circuit - Case C	(\$54,203,252)	(\$75,838,214)	\$11,976,322	\$11,976,322			(\$63,861,893)	(\$42,226,931)	(\$6.62)	(\$4.38)
15. Interface for Other Load Control Devices - Case A	(\$172,687,295)	(\$470,195,040)	\$0	\$0	\$227,442,401	\$721,888,806	(\$242,752,639)	\$549,201,511	(\$25.17)	\$56.95
15. Interface for Other Load Control Devices - Case B	(\$172,687,295)	(\$470,195,040)	\$0	\$0	\$227,442,401	\$721,888,806	(\$242,752,639)	\$549,201,511	(\$25.17)	\$56.95
Facilitation of Customer Interaction										
16. Interface to Home Area Network using Open Standard - Case A	(\$245,842,627)	(\$386,763,935)	\$0	\$0	\$227,442,401	\$721,888,806	(\$159,321,534)	\$476,046,179	(\$16.52)	\$49.37
16. Interface to Home Area Network using Open Standard - Case B	(\$245,842,627)	(\$386,763,935)	\$0	\$0	\$227,442,401	\$721,888,806	(\$159,321,534)	\$476,046,179	(\$16.52)	\$49.37
16. Interface to Home Area Network using Open Standard - Case C	(\$446,846,765)	(\$803,214,261)	\$0	\$0	\$368,725,497	\$1,174,437,333	(\$434,488,764)	\$727,590,569	(\$45.06)	\$75.45
17. Provision of an in-home display - Case A			\$0	\$0	(\$175,421,035)	(\$211,861,592)	(\$211,861,592)	(\$175,421,035)	(\$21.97)	(\$18.19)
17. Provision of an in-home display - Case B			\$0	\$0	(\$584,736,782)	(\$708,887,856)	(\$708,887,856)	(\$584,736,782)	(\$73.51)	(\$60.64)
17. Provision of an in-home display - Case C			\$0	\$0	(\$584,736,782)	(\$708,887,856)	(\$708,887,856)	(\$584,736,782)	(\$73.51)	(\$60.64)
18. Interface for Communications from gas and water meters - Case A	(\$190,678,469)	(\$283,094,020)	\$2,271,038	\$2,271,038			(\$280,822,982)	(\$188,407,431)	(\$29.12)	(\$19.54)
18. Interface for Communications from gas and water meters - Case B	(\$190,678,469)	(\$283,094,020)	\$5,078,866	\$5,078,866			(\$278,015,154)	(\$185,599,603)	(\$28.83)	(\$19.25)
Supply and Service Monitoring										
19. Quality of supply and other event recording	(\$67,883,745)	(\$97,314,928)	\$27,758,855	\$152,908,372			(\$69,556,073)	\$85,024,627	(\$7.21)	\$8.82
20. Meter Loss of Supply Detection and Outage Detection	(\$34,199,070)	(\$47,106,574)	\$102,686,665	\$102,686,665			\$55,580,091	\$68,487,595	\$5.76	\$7.10
21. Customer Supply Monitoring	(\$54,687,045)	(\$92,138,298)	\$95,640,124	\$95,640,124			\$3,501,827	\$40,953,079	\$0.36	\$4.25
22. Real time service checking	(\$43,172,438)	(\$60,566,626)	\$36,287,660	\$36,287,660			(\$24,278,966)	(\$6,884,778)	(\$2.52)	(\$0.71)
Standards and Interoperability										
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	(\$292,368,391)	(\$584,736,782)	\$0	\$0			(\$584,736,782)	(\$292,368,391)	(\$60.64)	(\$30.32)
Upgradeability and configurability										
25. Remote reconfiguration	(\$21,515,136)	(\$30,017,359)	\$162,127,582	\$162,127,582			\$132,110,223	\$140,612,446	\$13.70	\$14.58
26. Remote software upgrade	(\$89,361)	(\$29,370,880)	\$225,226,891	\$225,226,891			\$195,856,011	\$225,137,530	\$20.31	\$23.35
27. Separate standard base plate	(\$146,273,556)	(\$567,328,719)	\$120,796,724	\$120,796,724			(\$446,531,995)	(\$25,476,832)	(\$46.31)	(\$2.64)
28. Non meter board installation	(\$1,363,695,536)	(\$1,704,641,760)	\$698,351,139	\$698,351,139			(\$1,006,290,622)	(\$665,344,397)	(\$104.35)	(\$69.00)
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$52,626,310			\$52,626,310	\$52,626,310	\$5.46	\$5.46

**Table G3.2: NPV of net benefits to stakeholder groups by functionality: scenario 4
(including transfers)**

Functionality	Net Customer Benefits		Net Retailer Benefits		Net Networks Benefits		Net Market Benefits	
	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Energy Measurement								
9. Remote reading (daily)	(\$63,507,996)	\$4,784,002	\$44,102,465	\$342,539,735	(\$81,509,824)	\$194,683,831	(\$339,476,902)	\$7,967,769
10. Power factor measurement	\$0	\$0	(\$7,718,526)	(\$2,572,842)	(\$12,968,232)	(\$10,149,052)	(\$8,725,625)	(\$5,817,083)
11. Export/import metering	\$0	\$0	\$39,103,893	\$44,249,577	\$0	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	(\$75,859,019)	(\$32,421,429)	\$139,747,435	\$143,130,452	(\$49,617,585)	(\$49,617,585)
12. Remote connect/disconnect - Case B	\$0	\$0	(\$38,221,103)	\$5,216,487	\$74,342,436	\$99,151,229	(\$49,617,585)	(\$49,617,585)
13. Supply Capacity Control	\$0	\$0	(\$17,844,860)	(\$12,109,012)	(\$31,544,168)	(\$15,756,754)	(\$31,842,909)	(\$31,753,548)
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	(\$19,119,493)	(\$13,383,645)	(\$39,896,608)	(\$24,109,195)	(\$4,845,792)	(\$4,734,091)
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	(\$19,119,493)	(\$13,383,645)	(\$39,896,608)	(\$24,109,195)	(\$4,845,792)	(\$4,734,091)
15. Interface for Other Load Control Devices - Case A	(\$13,465,839)	\$1,254,898,438	(\$52,775,732)	\$110,422,494	(\$944,056,113)	\$287,605,930	(\$315,242,901)	(\$20,937,404)
15. Interface for Other Load Control Devices - Case B	(\$13,465,839)	\$1,254,898,438	(\$52,775,732)	\$110,422,494	(\$944,056,113)	\$287,605,930	(\$315,242,901)	(\$20,937,404)
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$203,164,922	\$1,283,782,539	(\$178,645,518)	\$11,766,078	(\$955,896,673)	\$279,712,223	(\$310,732,212)	(\$16,426,715)
16. Interface to Home Area Network using Open Standard - Case B	\$203,164,922	\$1,283,782,539	(\$178,645,518)	\$11,766,078	(\$955,896,673)	\$279,712,223	(\$310,732,212)	(\$16,426,715)
16. Interface to Home Area Network using Open Standard - Case C	(\$157,242,380)	\$1,269,588,481	(\$172,977,893)	\$10,316,089	(\$977,536,926)	\$658,295,568	(\$326,292,542)	(\$11,048,591)
17. Provision of an in-home display - Case A	\$0	\$140,434,070	(\$356,200,089)	(\$10,245,176)	(\$101,478,259)	\$128,629,580	(\$256,496,402)	\$68,073,651
17. Provision of an in-home display - Case B	\$0	\$140,434,070	(\$853,226,354)	(\$419,560,924)	(\$101,478,259)	\$128,629,580	(\$256,496,402)	\$68,073,651
17. Provision of an in-home display - Case C	\$0	\$140,434,070	(\$853,226,354)	(\$419,560,924)	(\$101,478,259)	\$128,629,580	(\$256,496,402)	\$68,073,651
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	(\$126,371,054)	(\$102,981,583)	\$0	\$0	(\$154,451,928)	(\$85,425,848)
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	(\$123,563,226)	(\$100,173,754)	\$0	\$0	(\$154,451,928)	(\$85,425,848)
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$0	(\$64,710,281)	\$89,758,718	(\$4,845,792)	(\$4,734,091)
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	(\$24,218,024)	(\$15,932,910)	\$84,643,907	\$89,154,596	(\$4,845,792)	(\$4,734,091)
21. Customer Supply Monitoring	\$0	\$0	(\$76,015,782)	(\$40,931,575)	\$84,363,400	\$86,618,745	(\$4,845,792)	(\$4,734,091)
22. Real time service checking	\$0	\$0	(\$8,922,430)	(\$5,735,848)	(\$10,510,744)	\$3,585,161	(\$4,845,792)	(\$4,734,091)
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	(\$584,736,782)	(\$292,368,391)	\$0	\$0	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$150,151,261	\$150,151,261	(\$17,906,997)	(\$9,449,454)	(\$134,041)	(\$89,361)
26. Remote software upgrade	\$0	\$0	\$195,990,052	\$225,226,891	\$0	\$0	(\$134,041)	(\$89,361)
27. Separate standard base plate	\$0	\$0	(\$446,397,954)	(\$25,387,471)	\$0	\$0	(\$134,041)	(\$89,361)
28. Non meter board installation	\$0	\$0	(\$1,006,156,581)	(\$665,255,037)	\$0	\$0	(\$134,041)	(\$89,361)
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$52,626,310	\$0	\$0	\$0	\$0

**Table G3.3: NPV of benefits and costs by functionality: lower bound scenario 4
(including transfers)**

Functionality	Customer		Retailer		Networks		Market	
	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs
Energy Measurement								
9. Remote reading (daily)	\$0	\$63,507,996	\$102,966,420	\$7,647,797	\$0	\$9,021,379	\$0	\$29,227,328
10. Power factor measurement	\$0	\$0	\$0	\$2,572,842	\$0	\$10,149,052	\$0	\$5,817,083
11. Export/import metering	\$0	\$0	\$44,249,577	\$0	\$0	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$68,139,735	\$153,279,503	\$10,149,052	\$0	\$49,617,585
12. Remote connect/disconnect - Case B	\$0	\$0	\$73,356,222	\$68,139,735	\$153,279,503	\$54,128,275	\$0	\$49,617,585
13. Supply Capacity Control	\$0	\$0	\$0	\$12,109,012	\$20,328,762	\$36,085,516	\$0	\$31,753,548
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	\$0	\$13,383,645	\$11,976,322	\$36,085,516	\$0	\$4,734,091
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	\$0	\$13,383,645	\$11,976,322	\$36,085,516	\$0	\$4,734,091
15. Interface for Other Load Control Devices - Case A	\$419,795,684	\$144,420,508	\$40,818,618	\$35,726,102	\$190,191,597	\$346,532,895	\$36,450,439	\$105,821,728
15. Interface for Other Load Control Devices - Case B	\$419,795,684	\$144,420,508	\$40,818,618	\$35,726,102	\$190,191,597	\$346,532,895	\$36,450,439	\$105,821,728
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$419,795,684	\$115,536,406	\$40,818,618	\$134,382,519	\$190,191,597	\$354,426,601	\$36,450,439	\$101,311,038
16. Interface to Home Area Network using Open Standard - Case B	\$419,795,684	\$115,536,406	\$40,818,618	\$134,382,519	\$190,191,597	\$354,426,601	\$36,450,439	\$101,311,038
16. Interface to Home Area Network using Open Standard - Case C	\$475,838,707	\$316,540,543	\$56,709,516	\$137,449,500	\$317,194,538	\$399,019,560	\$50,419,008	\$125,273,433
17. Provision of an in-home display - Case A	\$0	\$0	\$0	\$175,421,035	\$0	\$0	\$0	\$0
17. Provision of an in-home display - Case B	\$0	\$0	\$0	\$584,736,782	\$0	\$0	\$0	\$0
17. Provision of an in-home display - Case C	\$0	\$0	\$0	\$584,736,782	\$0	\$0	\$0	\$0
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$2,271,038	\$105,252,621	\$0	\$0	\$0	\$85,425,848
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$5,078,866	\$105,252,621	\$0	\$0	\$0	\$85,425,848
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$0	\$27,758,855	\$63,149,654	\$0	\$4,734,091
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	\$0	\$15,932,910	\$102,686,665	\$13,532,069	\$0	\$4,734,091
21. Customer Supply Monitoring	\$0	\$0	\$0	\$40,931,575	\$95,640,124	\$9,021,379	\$0	\$4,734,091
22. Real time service checking	\$0	\$0	\$0	\$5,735,848	\$36,287,660	\$32,702,499	\$0	\$4,734,091
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$292,368,391	\$0	\$0	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$150,151,261	\$0	\$11,976,322	\$21,425,775	\$0	\$89,361
26. Remote software upgrade	\$0	\$0	\$225,226,891	\$0	\$0	\$0	\$0	\$89,361
27. Separate standard base plate	\$0	\$0	\$120,796,724	\$146,184,195	\$0	\$0	\$0	\$89,361
28. Non meter board installation	\$0	\$0	\$698,351,139	\$1,363,606,175	\$0	\$0	\$0	\$89,361
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$0	\$0	\$0	\$0	\$0

**Table G3.4: NPV of benefits and costs by functionality: upper bound scenario 4
(including transfers)**

Functionality	Customer		Retailer		Networks		Market	
	Benefits	Costs	Benefits	Costs	Benefits	Costs	Benefits	Costs
Energy Measurement								
9. Remote reading (daily)	\$68,291,997	\$63,507,996	\$350,187,532	\$58,863,955	\$203,705,210	\$81,509,824	\$37,195,097	\$339,476,902
10. Power factor measurement	\$0	\$0	\$0	\$7,718,526	\$0	\$12,968,232	\$0	\$8,725,625
11. Export/import metering	\$0	\$0	\$44,249,577	\$5,145,684	\$0	\$0	\$0	\$0
Switching & Load Management								
12. Remote connect/disconnect - Case A	\$0	\$0	\$35,718,306	\$111,577,325	\$153,279,503	\$13,532,069	\$0	\$49,617,585
12. Remote connect/disconnect - Case B	\$0	\$0	\$73,356,222	\$111,577,325	\$153,279,503	\$78,937,067	\$0	\$49,617,585
13. Supply Capacity Control	\$0	\$0	\$0	\$17,844,860	\$20,328,762	\$51,872,930	\$0	\$31,842,909
14. Load management at meters through a dedicated control circuit - Case B	\$0	\$0	\$0	\$19,119,493	\$11,976,322	\$51,872,930	\$0	\$4,845,792
14. Load management at meters through a dedicated control circuit - Case C	\$0	\$0	\$0	\$19,119,493	\$11,976,322	\$51,872,930	\$0	\$4,845,792
15. Interface for Other Load Control Devices - Case A	\$1,399,318,945	\$433,261,523	\$146,148,596	\$93,594,350	\$634,138,824	\$1,134,247,709	\$84,884,323	\$351,693,340
15. Interface for Other Load Control Devices - Case B	\$1,399,318,945	\$433,261,523	\$146,148,596	\$93,594,350	\$634,138,824	\$1,134,247,709	\$84,884,323	\$351,693,340
Facilitation of Customer Interaction								
16. Interface to Home Area Network using Open Standard - Case A	\$1,399,318,945	\$216,630,762	\$146,148,596	\$219,464,136	\$634,138,824	\$1,146,088,270	\$84,884,323	\$347,182,651
16. Interface to Home Area Network using Open Standard - Case B	\$1,399,318,945	\$216,630,762	\$146,148,596	\$219,464,136	\$634,138,824	\$1,146,088,270	\$84,884,323	\$347,182,651
16. Interface to Home Area Network using Open Standard - Case C	\$1,586,129,024	\$633,081,087	\$147,765,589	\$229,687,409	\$1,057,315,127	\$1,294,731,464	\$114,224,841	\$376,711,549
17. Provision of an in-home display - Case A	\$140,434,070	\$0	\$165,175,858	\$356,200,089	\$128,629,580	\$101,478,259	\$68,073,651	\$256,496,402
17. Provision of an in-home display - Case B	\$140,434,070	\$0	\$165,175,858	\$853,226,354	\$128,629,580	\$101,478,259	\$68,073,651	\$256,496,402
17. Provision of an in-home display - Case C	\$140,434,070	\$0	\$165,175,858	\$853,226,354	\$128,629,580	\$101,478,259	\$68,073,651	\$256,496,402
18. Interface for Communications from gas and water meters - Case A	\$0	\$0	\$2,271,038	\$128,642,092	\$0	\$0	\$0	\$154,451,928
18. Interface for Communications from gas and water meters - Case B	\$0	\$0	\$5,078,866	\$128,642,092	\$0	\$0	\$0	\$154,451,928
Supply and Service Monitoring								
19. Quality of supply and other event recording	\$0	\$0	\$0	\$0	\$152,908,372	\$92,469,136	\$0	\$4,845,792
20. Meter Loss of Supply Detection and Outage Detection	\$0	\$0	\$0	\$24,218,024	\$102,686,665	\$18,042,758	\$0	\$4,845,792
21. Customer Supply Monitoring	\$0	\$0	\$0	\$76,015,782	\$95,640,124	\$11,276,724	\$0	\$4,845,792
22. Real time service checking	\$0	\$0	\$0	\$8,922,430	\$36,287,660	\$46,798,404	\$0	\$4,845,792
Standards and Interoperability								
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	\$0	\$0	\$0	\$584,736,782	\$0	\$0	\$0	\$0
Upgradeability and configurability								
25. Remote reconfiguration	\$0	\$0	\$150,151,261	\$0	\$11,976,322	\$29,883,318	\$0	\$134,041
26. Remote software upgrade	\$0	\$0	\$225,226,891	\$29,236,839	\$0	\$0	\$0	\$134,041
27. Separate standard base plate	\$0	\$0	\$120,796,724	\$567,194,678	\$0	\$0	\$0	\$134,041
28. Non meter board installation	\$0	\$0	\$698,351,139	\$1,704,507,719	\$0	\$0	\$0	\$134,041
29. Plug and Play Device commissioning	\$0	\$0	\$52,626,310	\$0	\$0	\$0	\$0	\$0

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Measurement																	
9. Remote reading (daily)																	
Consumer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$63,507,996		\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888
Retailer																	
Benefits	\$102,966,420		\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220	\$19,838,220
Costs	\$7,647,797	\$5,086,449	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$2,797,547	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967	\$762,967
Network																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$9,021,379	\$6,000,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$3,300,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Market																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$29,227,328	\$6,029,716	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$7,200,753	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866	\$4,788,866
Total																	
Benefits	\$102,966,420																
Costs	\$109,404,500																
Net Benefits	-\$6,438,079																
10. Power factor measurement																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$2,572,842	\$0	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701	\$495,701
Network																	
Benefits																	
Costs	\$10,149,052	\$6,750,000	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$3,712,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500
Market																	
Benefits																	
Costs	\$5,817,083	\$3,868,865	\$580,330	\$580,330	\$580,330	\$580,330	\$580,330	\$580,330	\$2,127,876	\$580,330	\$580,330	\$580,330	\$580,330	\$580,330	\$580,330	\$580,330	\$580,330
Total																	
Benefits	\$0																
Costs	\$18,538,977																
Net Benefits	-\$18,538,977																
11. Export/import metering																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$44,249,577		\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$44,249,577																
Costs	\$0																
Net Benefits	\$44,249,577																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Switching & Load Management																	
12. Remote connect/disconnect - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$68,139,735	\$0	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$10,149,052	\$6,750,000	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$3,712,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500	\$1,012,500
Market																	
Benefits																	
Costs	\$49,617,585	\$33,000,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$18,150,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000
Total																	
Benefits	\$188,997,809																
Costs	\$127,906,372																
Net Benefits	\$61,091,437																
12. Remote connect/disconnect - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$73,356,222		\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315
Costs	\$68,139,735	\$0	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271	\$13,128,271
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$54,128,275	\$36,000,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$19,800,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000
Market																	
Benefits																	
Costs	\$49,617,585	\$33,000,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$18,150,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000
Total																	
Benefits	\$226,635,725																
Costs	\$171,885,595																
Net Benefits	\$54,750,130																
13. Supply capacity control																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$12,109,012	\$8,053,544	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$4,429,449	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032	\$1,208,032
Costs	\$20,328,762		\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680
Network																	
Benefits	\$36,085,516	\$24,000,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$13,200,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000
Costs																	
Market																	
Benefits	\$31,753,548	\$21,118,865	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$11,615,376	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830	\$3,167,830
Costs																	
Tonnes																	
Total																	
Benefits	\$20,328,762																
Costs	\$79,948,077																
Net Benefits	-\$59,619,314																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
14. Load management at meters through a dedicated control circuit - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$13,383,645	\$8,901,285	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$4,895,707	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$36,085,516	\$24,000,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$13,200,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000
Market																	
Benefits																	
Costs	\$4,734,091	\$3,148,581	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$1,731,720	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287
Total																	
Benefits	\$11,976,322																
Costs	\$54,203,252																
Net Benefits	-\$42,226,931																
14. Load management at meters through a dedicated control circuit - Case C																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$13,383,645	\$8,901,285	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$4,895,707	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193	\$1,335,193
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$36,085,516	\$24,000,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$13,200,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000	\$3,600,000
Market																	
Benefits																	
Costs	\$4,734,091	\$3,148,581	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$1,731,720	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287
Total																	
Benefits	\$11,976,322																
Costs	\$54,203,252																
Net Benefits	-\$42,226,931																
15. Interface for other load control devices - Case A																	
Consumer																	
Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Costs	\$144,420,508		\$69,830,296	\$15,005,185	\$16,957,365	\$18,920,486	\$20,901,207	\$22,679,879	\$24,548,154	\$25,172,370	\$25,777,845	\$26,369,250	\$26,954,898	\$27,520,249	\$28,069,936	\$28,602,534	\$29,116,634
Retailer																	
Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Costs	\$35,726,102	\$8,901,285	\$4,157,107	\$4,588,676	\$5,014,483	\$5,444,549	\$5,878,534	\$6,267,363	\$9,409,579	\$5,965,885	\$6,079,678	\$6,191,234	\$6,301,899	\$6,409,284	\$6,514,183	\$6,616,343	\$6,715,516
Network																	
Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Costs	\$346,532,895	\$6,750,000	\$40,566,094	\$46,678,834	\$52,627,457	\$58,614,908	\$64,656,225	\$70,078,683	\$76,049,274	\$75,194,655	\$76,986,039	\$78,736,989	\$80,471,472	\$82,147,466	\$83,778,461	\$85,360,281	\$86,888,808
Market																	
Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269
Costs	\$105,821,728	\$3,148,581	\$15,895,713	\$17,075,335	\$18,239,207	\$19,414,721	\$20,600,945	\$21,663,746	\$21,779,830	\$20,839,706	\$21,150,738	\$21,455,658	\$21,758,145	\$22,051,663	\$22,338,386	\$22,617,625	\$22,888,696
Total																	
Benefits	\$687,256,338																
Costs	\$632,501,232																
Net Benefits	\$54,755,106																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
15. Interface for other load control devices - Case B																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$144,420,508		\$69,830,296	\$15,005,165	\$16,957,365	\$18,920,486	\$20,901,207	\$22,679,879	\$24,548,154	\$25,172,370	\$25,777,845	\$26,369,250	\$26,954,898	\$27,520,249	\$28,069,936	\$28,602,534	\$29,116,634
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$35,726,102	\$8,901,285	\$4,157,107	\$4,588,676	\$5,014,483	\$5,444,549	\$5,878,534	\$6,267,363	\$6,409,579	\$5,965,885	\$6,079,678	\$6,191,234	\$6,301,899	\$6,409,284	\$6,514,183	\$6,616,343	\$6,715,516
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$346,532,895	\$6,750,000	\$40,566,094	\$46,678,834	\$52,627,457	\$58,614,908	\$64,656,225	\$70,078,683	\$76,049,274	\$75,194,655	\$76,986,039	\$78,736,989	\$80,471,472	\$82,147,466	\$83,778,461	\$85,360,281	\$86,888,808
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269
Market Costs	\$105,821,728	\$3,148,581	\$15,895,713	\$17,075,335	\$18,239,207	\$19,414,721	\$20,600,945	\$21,663,746	\$21,779,830	\$20,839,706	\$21,150,738	\$21,455,658	\$21,758,145	\$22,051,663	\$22,338,386	\$22,617,625	\$22,888,696
Total Benefits	\$687,256,338																
Total Costs	\$632,501,232																
Net Benefits	\$54,755,106																
Facilitation of Customer interaction																	
16. Interface to Home Area Network using open standard - Case A																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$115,536,406		\$55,864,237	\$12,004,148	\$13,565,892	\$15,136,389	\$16,720,966	\$18,143,903	\$19,638,523	\$20,137,896	\$20,622,276	\$21,095,400	\$21,563,919	\$22,016,199	\$22,455,949	\$22,882,027	\$23,293,307
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$134,382,519	\$12,292,251	\$22,691,259	\$23,122,828	\$23,548,635	\$23,978,701	\$24,412,686	\$24,801,515	\$29,300,118	\$24,500,037	\$24,613,830	\$24,725,386	\$24,836,051	\$24,943,436	\$25,048,335	\$25,150,495	\$25,249,668
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$354,426,601	\$12,000,000	\$41,353,594	\$47,466,334	\$53,414,957	\$59,402,408	\$65,443,725	\$70,866,183	\$78,936,774	\$75,982,155	\$77,773,539	\$79,524,489	\$81,258,972	\$82,934,966	\$84,565,961	\$86,147,781	\$87,676,308
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$20,129,830	\$20,389,706	\$20,700,738	\$21,005,658	\$21,308,145	\$21,601,663	\$21,888,386	\$22,167,625	\$22,438,696
Total Benefits	\$687,256,338																
Total Costs	\$705,656,564																
Net Benefits	-\$18,400,226																
16. Interface to Home Area Network using open standard - Case B																	
Consumer Benefits	\$419,795,684		\$50,088,742	\$57,812,673	\$65,350,975	\$72,944,006	\$80,605,530	\$87,479,620	\$89,188,564	\$91,470,074	\$93,686,282	\$95,853,708	\$98,001,343	\$100,078,240	\$102,100,858	\$104,064,077	\$105,962,848
Consumer Costs	\$115,536,406		\$55,864,237	\$12,004,148	\$13,565,892	\$15,136,389	\$16,720,966	\$18,143,903	\$19,638,523	\$20,137,896	\$20,622,276	\$21,095,400	\$21,563,919	\$22,016,199	\$22,455,949	\$22,882,027	\$23,293,307
Retailer Benefits	\$40,818,618		\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396	\$7,864,396
Retailer Costs	\$134,382,519	\$12,292,251	\$22,691,259	\$23,122,828	\$23,548,635	\$23,978,701	\$24,412,686	\$24,801,515	\$29,300,118	\$24,500,037	\$24,613,830	\$24,725,386	\$24,836,051	\$24,943,436	\$25,048,335	\$25,150,495	\$25,249,668
Network Benefits	\$190,191,597		\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624	\$36,643,624
Network Costs	\$354,426,601	\$12,000,000	\$41,353,594	\$47,466,334	\$53,414,957	\$59,402,408	\$65,443,725	\$70,866,183	\$78,936,774	\$75,982,155	\$77,773,539	\$79,524,489	\$81,258,972	\$82,934,966	\$84,565,961	\$86,147,781	\$87,676,308
Market Benefits	\$36,450,439		\$7,400,816	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$12,962,929	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$3,958,102	\$1,486,269	\$1,486,269	\$1,486,269	\$1,486,269
Market Costs	\$101,311,038	\$148,581	\$15,445,713	\$16,625,335	\$17,789,207	\$18,964,721	\$20,150,945	\$21,213,746	\$20,129,830	\$20,389,706	\$20,700,738	\$21,005,658	\$21,308,145	\$21,601,663	\$21,888,386	\$22,167,625	\$22,438,696
Total Benefits	\$687,256,338																
Total Costs	\$705,656,564																
Net Benefits	-\$18,400,226																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
16. Interface to Home Area Network using open standard - Case C																	
Consumer																	
Benefits	\$475,838,707		\$92,346,338	\$84,452,162	\$96,498,822	\$88,501,660	\$90,486,474	\$92,407,388	\$89,479,698	\$91,795,126	\$94,046,468	\$96,250,827	\$98,436,066	\$100,552,041	\$102,618,111	\$104,629,294	\$106,580,655
Costs	\$316,540,543		\$53,280,603	\$54,635,435	\$55,949,590	\$57,233,205	\$58,504,328	\$59,731,394	\$61,370,385	\$62,930,926	\$64,444,614	\$65,923,124	\$67,387,246	\$68,800,622	\$70,174,841	\$71,506,334	\$72,791,584
Retailer																	
Benefits	\$56,709,516		\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046	\$10,926,046
Costs	\$137,449,500	\$12,292,251	\$24,496,124	\$24,614,576	\$24,729,955	\$24,843,034	\$24,955,203	\$25,064,039	\$29,300,118	\$24,500,037	\$24,613,830	\$24,725,386	\$24,836,051	\$24,943,436	\$25,048,335	\$25,150,495	\$25,249,668
Network																	
Benefits	\$317,194,538		\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886	\$61,112,886
Costs	\$399,019,560	\$12,000,000	\$66,873,031	\$68,536,633	\$70,152,546	\$71,733,219	\$73,299,269	\$74,813,865	\$79,227,907	\$76,307,208	\$78,133,725	\$79,921,608	\$81,693,694	\$83,408,766	\$85,083,214	\$86,712,998	\$88,294,116
Market																	
Benefits	\$50,419,008		\$12,043,192	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$18,910,819	\$4,145,601	\$4,145,601	\$4,145,601	\$4,145,601	\$4,145,601	\$1,479,275	\$1,479,275	\$1,479,275	\$1,479,275
Costs	\$125,273,433	\$148,581	\$23,380,626	\$23,704,395	\$24,019,764	\$24,328,849	\$24,635,444	\$24,932,927	\$23,131,448	\$23,391,323	\$23,702,356	\$24,007,276	\$24,309,762	\$24,603,281	\$24,890,004	\$25,169,242	\$25,440,314
Total																	
Benefits	\$900,161,769																
Costs	\$978,283,036																
Net Benefits	-\$78,121,267																
17. Provision of an in-home display - Case A																	
Consumer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$175,421,035	\$0	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826	\$33,797,826
Network																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$175,421,035																
Net Benefits	-\$175,421,035																
17. Provision of an in-home display - Case B																	
Consumer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$584,736,782	\$0	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Network																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$584,736,782																
Net Benefits	-\$584,736,782																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
17. Provision of an in-home display - Case C																	
Consumer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$584,736,782	\$0	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Network																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$584,736,782																
Net Benefits	-\$584,736,782																
18. Interface for communications from gas and water meters - Case A																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$2,271,038		\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554
Costs	\$105,252,621	\$0	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$85,425,848	\$45,148,581	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$28,211,502	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	
Total																	
Benefits	\$2,271,038																
Costs	\$190,678,469																
Net Benefits	-\$188,407,431																
18. Interface for communications from gas and water meters - Case B																	
Consumer																	
Benefits																	
Costs	\$0																
Retailer																	
Benefits	\$5,078,866		\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529
Costs	\$105,252,621	\$0	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696	\$20,278,696
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$85,425,848	\$45,148,581	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$28,211,502	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	\$10,152,070	
Total																	
Benefits	\$5,078,866																
Costs	\$190,678,469																
Net Benefits	-\$185,599,603																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Supply and service monitoring																	
19. Quality of supply and other event recording																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$27,758,855		\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212	\$5,348,212
Costs	\$63,149,654	\$42,000,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$23,100,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000	\$6,300,000
Market																	
Benefits																	
Costs	\$4,734,091	\$3,148,581	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$1,731,720	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287
Total																	
Benefits	\$27,758,855																
Costs	\$67,883,745																
Net Benefits	-\$40,124,890																
20. Meter loss of supply detection and outage detection																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$15,932,910	\$10,596,768	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$5,828,222	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515	\$1,589,515
Network																	
Benefits	\$102,686,665		\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321
Costs	\$13,532,069	\$9,000,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$4,950,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000
Market																	
Benefits																	
Costs	\$4,734,091	\$3,148,581	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$1,731,720	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287
Total																	
Benefits	\$102,686,665																
Costs	\$34,199,070																
Net Benefits	\$68,487,595																
21. Customer supply monitoring																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$40,931,575	\$0	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159	\$7,886,159
Network																	
Benefits	\$95,640,124		\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686
Costs	\$9,021,379	\$6,000,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$3,300,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Market																	
Benefits																	
Costs	\$4,734,091	\$3,148,581	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$1,731,720	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287
Total																	
Benefits	\$95,640,124																
Costs	\$54,687,045																
Net Benefits	\$40,953,079																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
22. Real time service checking																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$5,735,848	\$3,814,837	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$2,098,160	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225	\$572,225
Network																	
Benefits	\$36,287,660		\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431
Costs	\$32,702,499	\$21,750,000	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500	\$3,262,500
Market																	
Benefits	\$4,734,091	\$3,148,581	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$1,731,720	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287	\$472,287
Costs																	
Total																	
Benefits	\$36,287,660																
Costs	\$43,172,438																
Net Benefits	-\$6,884,778																
Standards and interoperability																	
23. Interoperability for meters/devices at application layer																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits	n/a																
Costs	n/a																
Net Benefits	n/a																
24. Hardware component interoperability																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$292,368,391	\$0	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710	\$56,329,710
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$292,368,391																
Net Benefits	-\$292,368,391																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Upgradeability and configurability																	
25. Remote re-configuration																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$150,151,261		\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$21,425,775	\$14,250,000	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500	\$2,137,500
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$162,127,582																
Costs	\$21,515,136																
Net Benefits	\$140,612,446																
26. Remote software upgrade																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$225,226,891		\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$225,226,891																
Costs	\$89,361																
Net Benefits	\$225,137,530																
27. Separate standard base plate																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$120,796,724		\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530
Costs	\$146,184,195	\$0	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855	\$28,164,855
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$120,796,724																
Costs	\$146,273,556																
Net Benefits	-\$25,476,832																

Table G3.5: Low estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
28. Non meter board installation																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$698,351,139		\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145
Costs	\$1,363,606,175	\$0	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766	\$262,721,766
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$89,361	\$59,433	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$32,688	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915	\$8,915
Total																	
Benefits	\$698,351,139																
Costs	\$1,363,695,536																
Net Benefits	-\$665,344,397																
29. Plug and Play device commissioning																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$52,626,310		\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$52,626,310																
Costs	\$0																
Net Benefits	\$52,626,310																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Measurement																	
9. Remote reading (daily)																	
Consumer																	
Benefits	\$68,291,997		\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607	\$13,157,607
Costs	\$63,507,996		\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888	\$12,235,888
Retailer																	
Benefits	\$350,187,532		\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544	\$67,469,544
Costs	\$58,863,955	\$23,736,761	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$17,520,126	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422	\$8,025,422
Network																	
Benefits	\$203,705,210		\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250	\$39,247,250
Costs	\$81,509,824	\$9,000,000	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$18,047,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063	\$14,447,063
Market																	
Benefits	\$37,195,097		\$5,808,357	\$4,165,138	\$4,165,138	\$4,165,138	\$4,165,138	\$4,165,138	\$11,140,121	\$11,154,274	\$11,154,274	\$11,154,274	\$11,154,274	\$6,967,896	\$6,967,896	\$6,967,896	\$6,967,896
Costs	\$339,476,902	\$9,044,574	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$67,760,382	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552	\$64,142,552
Total																	
Benefits	\$659,379,836																
Costs	\$543,358,677																
Net Benefits	\$116,021,159																
10. Power factor measurement																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$7,718,526	\$0	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104	\$1,487,104
Network																	
Benefits																	
Costs	\$12,968,232	\$8,625,000	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$4,743,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750	\$1,293,750
Market																	
Benefits																	
Costs	\$8,725,625	\$5,803,298	\$870,495	\$870,495	\$870,495	\$870,495	\$870,495	\$870,495	\$3,191,814	\$870,495	\$870,495	\$870,495	\$870,495	\$870,495	\$870,495	\$870,495	\$870,495
Total																	
Benefits	\$0																
Costs	\$29,412,383																
Net Benefits	-\$29,412,383																
11. Export/import metering																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$44,249,577		\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428	\$8,525,428
Costs	\$5,145,684	\$0	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403	\$991,403
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$44,249,577																
Costs	\$5,145,684																
Net Benefits	\$39,103,893																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Switching & Load Management																	
12. Remote connect/disconnect - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$35,718,306		\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735	\$6,881,735
Costs	\$111,577,325	\$0	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$13,532,069	\$9,000,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$4,950,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000
Market																	
Benefits																	
Costs	\$49,617,585	\$33,000,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$18,150,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000
Total																	
Benefits	\$188,997,809																
Costs	\$174,726,979																
Net Benefits	\$14,270,831																
12. Remote connect/disconnect - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$73,356,222		\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315	\$14,133,315
Costs	\$111,577,325	\$0	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257	\$21,497,257
Network																	
Benefits	\$153,279,503		\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886	\$29,531,886
Costs	\$78,937,067	\$52,500,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$28,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000	\$7,875,000
Market																	
Benefits																	
Costs	\$49,617,585	\$33,000,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$18,150,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000	\$4,950,000
Total																	
Benefits	\$226,635,725																
Costs	\$240,131,977																
Net Benefits	-\$13,496,252																
13. Supply capacity control																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$17,844,860	\$11,868,380	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$6,527,609	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257	\$1,780,257
Network																	
Benefits	\$20,328,762		\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680	\$3,916,680
Costs	\$51,872,930	\$34,500,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$18,975,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000	\$5,175,000
Market																	
Benefits																	
Costs	\$31,842,909	\$21,178,298	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$11,648,064	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745	\$3,176,745
Tonnes																	
Total																	
Benefits	\$20,328,762																
Costs	\$101,560,639																
Net Benefits	-\$81,231,936																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
14. Load management at meters through a dedicated control circuit - Case B																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits																	
Costs																	
Net Benefits																	
14. Load management at meters through a dedicated control circuit - Case C																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits																	
Costs																	
Net Benefits																	
15. Interface for other load control devices - Case A																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits																	
Costs																	
Net Benefits																	

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
15. Interface for other load control devices - Case B																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$433,261,523		\$209,490,889	\$45,015,555	\$50,872,096	\$56,761,457	\$62,703,621	\$68,039,636	\$73,644,462	\$75,517,111	\$77,333,536	\$79,107,749	\$80,864,695	\$82,560,746	\$84,209,809	\$85,807,601	\$87,349,901
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$93,594,350	\$12,716,122	\$11,313,800	\$12,752,363	\$14,171,720	\$15,605,273	\$17,051,888	\$18,347,987	\$22,040,108	\$17,343,060	\$17,722,368	\$18,094,221	\$18,463,107	\$18,821,056	\$19,170,719	\$19,511,254	\$19,841,829
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,134,247,709	\$8,625,000	\$133,139,064	\$153,514,865	\$173,343,606	\$193,301,776	\$213,439,498	\$231,514,359	\$245,866,329	\$248,567,601	\$254,538,880	\$260,375,380	\$266,156,990	\$271,743,835	\$277,180,287	\$282,453,021	\$287,548,110
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$351,693,340	\$3,222,872	\$53,800,087	\$57,732,159	\$61,611,734	\$65,530,113	\$69,484,193	\$73,026,864	\$70,504,851	\$70,280,062	\$71,316,838	\$72,333,237	\$73,341,525	\$74,319,920	\$75,275,664	\$76,206,460	\$77,110,031
Total Benefits	\$2,264,490,689																
Total Costs	\$2,012,796,923																
Net Benefits	\$251,693,766																
Facilitation of Customer interaction																	
16. Interface to Home Area Network using open standard - Case A																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$216,630,762		\$104,745,444	\$22,507,778	\$25,436,048	\$28,380,729	\$31,351,810	\$34,019,818	\$36,822,231	\$37,758,556	\$38,666,768	\$39,553,875	\$40,432,348	\$41,280,373	\$42,104,905	\$42,903,800	\$43,674,951
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$219,464,136	\$18,650,312	\$34,735,813	\$36,174,376	\$37,593,732	\$39,027,286	\$40,473,900	\$41,769,999	\$47,835,797	\$40,765,072	\$41,144,380	\$41,516,234	\$41,885,119	\$42,243,069	\$42,592,731	\$42,933,266	\$43,263,841
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,146,088,270	\$16,500,000	\$134,320,314	\$154,696,115	\$174,524,856	\$194,483,026	\$214,620,748	\$232,695,609	\$250,197,579	\$249,748,851	\$255,720,130	\$261,556,630	\$267,338,240	\$272,924,885	\$278,361,537	\$283,634,271	\$288,729,360
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$1,929,365,818																
Net Benefits	\$335,124,871																
16. Interface to Home Area Network using open standard - Case B																	
Consumer Benefits	\$1,399,318,945		\$166,962,474	\$192,708,909	\$217,836,582	\$243,146,685	\$268,685,102	\$291,598,732	\$297,295,213	\$304,900,246	\$312,287,607	\$319,512,361	\$326,671,145	\$333,594,135	\$340,336,192	\$346,880,257	\$353,209,492
Consumer Costs	\$216,630,762		\$104,745,444	\$22,507,778	\$25,436,048	\$28,380,729	\$31,351,810	\$34,019,818	\$36,822,231	\$37,758,556	\$38,666,768	\$39,553,875	\$40,432,348	\$41,280,373	\$42,104,905	\$42,903,800	\$43,674,951
Retailer Benefits	\$146,148,596		\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996	\$28,157,996
Retailer Costs	\$219,464,136	\$18,650,312	\$34,735,813	\$36,174,376	\$37,593,732	\$39,027,286	\$40,473,900	\$41,769,999	\$47,835,797	\$40,765,072	\$41,144,380	\$41,516,234	\$41,885,119	\$42,243,069	\$42,592,731	\$42,933,266	\$43,263,841
Network Benefits	\$634,138,824		\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558	\$122,177,558
Network Costs	\$1,146,088,270	\$16,500,000	\$134,320,314	\$154,696,115	\$174,524,856	\$194,483,026	\$214,620,748	\$232,695,609	\$250,197,579	\$249,748,851	\$255,720,130	\$261,556,630	\$267,338,240	\$272,924,885	\$278,361,537	\$283,634,271	\$288,729,360
Market Benefits	\$84,884,323		\$21,125,246	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$35,363,781	\$2,948,976	\$2,948,976	\$2,948,976	\$2,948,976	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250	\$2,140,250
Market Costs	\$347,182,651	\$222,872	\$53,350,087	\$57,282,159	\$61,161,734	\$65,080,113	\$69,034,193	\$72,576,864	\$68,854,851	\$69,830,062	\$70,866,838	\$71,883,237	\$72,891,525	\$73,869,920	\$74,825,664	\$75,756,460	\$76,660,031
Total Benefits	\$2,264,490,689																
Total Costs	\$1,929,365,818																
Net Benefits	\$335,124,871																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
16. Interface to Home Area Network using open standard - Case C																	
Consumer																	
Benefits	\$1,586,129,024		\$274,487,795	\$281,507,206	\$288,329,407	\$295,005,533	\$301,621,581	\$308,024,628	\$298,265,659	\$305,983,753	\$313,488,226	\$320,836,090	\$328,120,219	\$335,173,469	\$342,060,370	\$348,764,313	\$355,268,851
Costs	\$633,081,087		\$106,561,206	\$109,270,871	\$111,899,180	\$114,466,410	\$117,008,656	\$119,462,788	\$122,740,769	\$125,861,852	\$128,889,227	\$131,846,249	\$134,774,492	\$137,601,244	\$140,349,682	\$143,012,668	\$145,583,169
Retailer																	
Benefits	\$147,765,589		\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537	\$28,469,537
Costs	\$229,687,409	\$18,650,312	\$40,752,027	\$41,146,867	\$41,531,463	\$41,908,396	\$42,282,292	\$42,645,077	\$47,835,797	\$40,765,072	\$41,144,380	\$41,516,234	\$41,885,119	\$42,243,069	\$42,592,731	\$42,933,266	\$43,263,841
Network																	
Benefits	\$1,057,315,127		\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621	\$203,709,621
Costs	\$1,294,731,464	\$16,500,000	\$219,385,102	\$224,930,444	\$230,316,819	\$235,585,729	\$240,805,897	\$245,854,550	\$251,168,025	\$250,832,359	\$256,920,749	\$262,880,359	\$268,787,315	\$274,504,220	\$280,085,715	\$285,518,327	\$290,788,718
Market																	
Benefits	\$114,224,841		\$33,571,098	\$48,253,352	\$48,253,352	\$48,253,352	\$48,253,352	\$48,253,352	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979	\$3,447,979
Costs	\$376,711,549	\$222,872	\$70,099,838	\$71,179,068	\$72,230,297	\$73,260,581	\$74,282,563	\$75,274,174	\$69,160,283	\$70,135,494	\$71,172,270	\$72,188,670	\$73,196,958	\$74,175,353	\$75,131,097	\$76,061,892	\$76,965,463
Total																	
Benefits	\$2,905,434,582																
Costs	\$2,534,211,509																
Net Benefits	\$371,223,072																
17. Provision of an in-home display - Case A																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$356,200,089	\$0	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965	\$68,627,965
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$101,478,259	\$0	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402	\$0	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$714,174,751																
Net Benefits	-\$211,861,592																
17. Provision of an in-home display - Case B																	
Consumer																	
Benefits	\$140,434,070		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Costs	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retailer																	
Benefits	\$165,175,858		\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920	\$31,823,920
Costs	\$853,226,354	\$0	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471
Network																	
Benefits	\$128,629,580		\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Costs	\$101,478,259	\$0	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501
Market																	
Benefits	\$68,073,651		\$17,493,986	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$24,653,144	\$7,491,469	\$7,491,469	\$7,491,469	\$7,491,469	\$54,649	\$54,649	\$54,649	\$54,649	\$54,649
Costs	\$256,496,402	\$0	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365	\$49,418,365
Total																	
Benefits	\$502,313,159																
Costs	\$1,211,201,015																
Net Benefits	-\$708,887,856																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
17. Provision of an in-home display - Case C																	
Consumer Benefits	\$140,434,070																
Consumer Costs	\$0		\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996	\$27,056,996
Retailer Benefits	\$165,175,858																
Retailer Costs	\$853,226,354	\$0	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471	\$164,388,471
Network Benefits	\$128,629,580																
Network Costs	\$101,478,259	\$0	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662	\$24,782,662
Market Benefits	\$68,073,651																
Market Costs	\$256,496,402	\$0	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501	\$19,551,501
Total Benefits	\$502,313,159																
Total Costs	\$1,211,201,015																
Net Benefits	-\$708,887,856																
18. Interface for communications from gas and water meters - Case A																	
Consumer Benefits	\$0																
Consumer Costs	\$0																
Retailer Benefits	\$2,271,038																
Retailer Costs	\$128,642,092	\$0	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554	\$437,554
Network Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0																
Market Costs	\$154,451,928	\$67,722,872	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$47,386,927	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779
Total Benefits	\$2,271,038																
Total Costs	\$283,094,020																
Net Benefits	-\$280,822,982																
18. Interface for communications from gas and water meters - Case B																	
Consumer Benefits	\$0																
Consumer Costs	\$0																
Retailer Benefits	\$5,078,866																
Retailer Costs	\$128,642,092	\$0	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529	\$978,529
Network Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Benefits	\$0																
Market Costs	\$154,451,928	\$67,722,872	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$47,386,927	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779	\$20,297,779
Total Benefits	\$5,078,866																
Total Costs	\$283,094,020																
Net Benefits	-\$278,015,154																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Supply and service monitoring																	
19. Quality of supply and other event recording																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$152,908,372		\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381	\$29,460,381
Costs	\$92,469,136	\$61,500,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$33,825,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000	\$9,225,000
Market																	
Benefits																	
Costs	\$4,845,792	\$3,222,872	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$1,772,580	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431
Total																	
Benefits	\$152,908,372																
Costs	\$97,314,928																
Net Benefits	\$55,593,444																
20. Meter loss of supply detection and outage detection																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$24,218,024	\$16,107,088	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$8,858,898	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063	\$2,416,063
Costs																	
Network																	
Benefits	\$102,686,665		\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321	\$19,784,321
Costs	\$18,042,758	\$12,000,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$6,600,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000	\$1,800,000
Market																	
Benefits																	
Costs	\$4,845,792	\$3,222,872	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$1,772,580	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431
Total																	
Benefits	\$102,686,665																
Costs	\$47,106,574																
Net Benefits	\$55,580,091																
21. Customer supply monitoring																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$76,015,782	\$0	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725	\$14,645,725
Costs																	
Network																	
Benefits	\$95,640,124		\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686	\$18,426,686
Costs	\$11,276,724	\$7,500,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$4,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000
Market																	
Benefits																	
Costs	\$4,845,792	\$3,222,872	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$1,772,580	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431
Total																	
Benefits	\$95,640,124																
Costs	\$92,138,298																
Net Benefits	\$3,501,827																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
22. Real time service checking																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits	\$8,922,430	\$5,934,190	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$3,263,805	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129	\$890,129
Costs	\$36,287,660		\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431	\$6,991,431
Market	\$46,798,404	\$31,125,000	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$17,118,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750	\$4,668,750
Benefits																	
Costs	\$4,845,792	\$3,222,872	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$1,772,580	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431	\$483,431
Total																	
Benefits	\$36,287,660																
Costs	\$60,566,626																
Net Benefits	-\$24,278,966																
Standards and interoperability																	
23. Interoperability for meters/devices at application layer																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs																	
Network																	
Benefits																	
Costs																	
Market																	
Benefits																	
Costs																	
Total																	
Benefits	n/a																
Costs	n/a																
Net Benefits	n/a																
24. Hardware component interoperability																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits																	
Costs	\$584,736,782	\$0	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419	\$112,659,419
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$0																
Costs	\$584,736,782																
Net Benefits	-\$584,736,782																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Upgradeability and configurability																	
25. Remote reconfiguration																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$150,151,261		\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177	\$28,929,177
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits	\$11,976,322		\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441	\$2,307,441
Costs	\$29,883,318	\$19,875,000	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$10,931,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250	\$2,981,250
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$162,127,582																
Costs	\$30,017,359																
Net Benefits	\$132,110,223																
26. Remote software upgrade																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$225,226,891		\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766	\$43,393,766
Costs	\$29,236,839	\$0	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971	\$5,632,971
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$225,226,891																
Costs	\$29,370,880																
Net Benefits	\$195,856,011																
27. Separate standard base plate																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$120,796,724		\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530	\$23,273,530
Costs	\$567,194,678	\$0	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637	\$109,279,637
Network																	
Benefits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits	\$0																
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$120,796,724																
Costs	\$567,328,719																
Net Benefits	-\$446,531,995																

Table G3.6: High estimate of benefits and costs: scenario 4

Functionality	Present value (1 July 2007)	1-Jul-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
28. Non meter board installation																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$698,351,139		\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145	\$134,549,145
Costs	\$1,704,507,719	\$0	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208	\$328,402,208
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$134,041	\$89,149	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$49,032	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372	\$13,372
Total																	
Benefits	\$698,351,139																
Costs	\$1,704,641,760																
Net Benefits	-\$1,006,290,622																
29. Plug and Play device commissioning																	
Consumer																	
Benefits																	
Costs																	
Retailer																	
Benefits	\$52,626,310		\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348	\$10,139,348
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market																	
Benefits																	
Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total																	
Benefits	\$52,626,310																
Costs	\$0																
Net Benefits	\$52,626,310																

Tables G4.1 – G4.3

The cost benefit analysis is carried out with the following assumptions:

- no growth in customer numbers from 1 July 2007; and
- a real discount rate of 8%.

To test the robustness of our conclusion to these assumptions we have undertaken the following sensitivity tests:

- a scenario with high growth (1.9%) in customer numbers;
- a scenario with a low discount rate (6.5%); and
- a scenario with a high discount rate (9.5%).

The tables show upper and lower NPV bounds for each sensitivity scenario tested.

Table G4.1: NPV of net benefits (lower and upper bound) per meter sensitivity analysis: scenario 1

Functionality	High Growth		Low Discount Rate		High Discount Rate	
	Discount Rate	Customer Growth Rate	Discount Rate	Customer Growth Rate	Discount Rate	Customer Growth Rate
	8.00%	1.9%	6.50%	0.0%	9.50%	0.0%
	Lower	Upper	Lower	Upper	Lower	Upper
Energy Measurement						
9. Remote reading (daily)	(\$2.96)	\$15.05	(\$5.18)	\$19.25	(\$3.95)	\$13.17
10. Power factor measurement	(\$2.11)	(\$1.15)	(\$2.95)	(\$1.68)	(\$2.27)	(\$1.27)
11. Export/import metering	\$3.89	\$4.42	\$4.94	\$5.52	\$3.35	\$3.84
Switching & Load Management						
12. Remote connect/disconnect - Case A	\$6.61	\$11.38	\$9.82	\$15.16	\$5.00	\$9.42
12. Remote connect/disconnect - Case B	\$10.38	\$15.14	\$14.51	\$19.86	\$8.26	\$12.69
13. Supply Capacity Control	(\$3.07)	(\$1.38)	(\$5.37)	(\$2.76)	(\$4.10)	(\$2.16)
14. Load management at meters through a dedicated control circuit - Case B	(\$4.01)	(\$2.32)	(\$6.58)	(\$3.96)	(\$4.94)	(\$3.01)
14. Load management at meters through a dedicated control circuit - Case C	(\$4.01)	(\$2.32)	(\$6.58)	(\$3.96)	(\$4.94)	(\$3.01)
15. Interface for Other Load Control Devices - Case A	(\$13.99)	\$57.52	(\$23.58)	\$71.14	(\$24.51)	\$47.23
15. Interface for Other Load Control Devices - Case B	(\$13.99)	\$57.52	(\$23.58)	\$71.14	(\$24.51)	\$47.23
Facilitation of Customer Interaction						
16. Interface to Home Area Network using Open Standard - Case A	(\$10.87)	\$49.06	(\$15.15)	\$62.18	(\$16.54)	\$39.99
16. Interface to Home Area Network using Open Standard - Case B	(\$10.87)	\$49.06	(\$15.15)	\$62.18	(\$16.54)	\$39.99
16. Interface to Home Area Network using Open Standard - Case C	(\$29.49)	\$77.98	(\$45.70)	\$95.17	(\$43.01)	\$60.69
17. Provision of an in-home display - Case A	(\$22.67)	(\$17.53)	(\$23.16)	(\$19.92)	(\$20.76)	(\$16.63)
17. Provision of an in-home display - Case B	(\$72.34)	(\$58.44)	(\$79.61)	(\$66.41)	(\$67.88)	(\$55.44)
17. Provision of an in-home display - Case C	(\$72.34)	(\$58.44)	(\$79.61)	(\$66.41)	(\$67.88)	(\$55.44)
18. Interface for Communications from gas and water meters - Case A	(\$27.49)	(\$18.09)	(\$32.60)	(\$21.86)	(\$26.11)	(\$17.52)
18. Interface for Communications from gas and water meters - Case B	(\$27.15)	(\$17.74)	(\$32.25)	(\$21.51)	(\$25.86)	(\$17.28)
Supply and Service Monitoring						
19. Quality of supply and other event recording	(\$4.10)	\$10.70	(\$7.20)	\$11.97	(\$5.50)	\$7.99
20. Meter Loss of Supply Detection and Outage Detection	\$7.30	\$8.30	\$8.21	\$9.77	\$5.49	\$6.65
21. Customer Supply Monitoring	\$1.12	\$4.94	\$2.44	\$6.71	\$0.45	\$3.99
22. Real time service checking	(\$0.39)	\$0.97	(\$1.70)	\$0.40	(\$1.47)	\$0.09
Standards and Interoperability						
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	(\$60.64)	(\$30.32)	(\$66.41)	(\$33.20)	(\$55.44)	(\$27.72)
Upgradeability and configurability						
25. Remote reconfiguration	\$14.22	\$14.88	\$17.15	\$18.17	\$11.77	\$12.54
26. Remote software upgrade	\$19.47	\$22.50	\$24.76	\$28.09	\$16.75	\$19.52
27. Separate standard base plate	(\$46.76)	(\$3.09)	(\$47.95)	(\$0.13)	(\$44.19)	(\$4.27)
28. Non meter board installation	(\$106.98)	(\$71.62)	(\$114.29)	(\$75.56)	(\$95.40)	(\$63.08)
29. Plug and Play Device commissioning	\$5.26	\$5.26	\$5.98	\$5.98	\$4.99	\$4.99

Table G4.2: NPV of net benefits (lower and upper bound) per meter sensitivity analysis: scenario 2

Functionality	High Growth		Low Discount Rate		High Discount Rate	
	Discount Rate	Customer Growth Rate	Discount Rate	Customer Growth Rate	Discount Rate	Customer Growth Rate
	8.00%	1.9%	6.50%	0.0%	9.50%	0.0%
	Lower	Upper	Lower	Upper	Lower	Upper
Energy Measurement						
9. Remote reading (daily)	(\$2.96)	\$15.05	(\$5.18)	\$19.25	(\$3.95)	\$13.17
10. Power factor measurement	(\$2.46)	(\$1.50)	(\$3.50)	(\$2.22)	(\$2.67)	(\$1.67)
11. Export/import metering	\$3.89	\$4.42	\$4.94	\$5.52	\$3.35	\$3.84
Switching & Load Management						
12. Remote connect/disconnect - Case A	\$2.40	\$7.17	\$3.28	\$8.62	\$0.15	\$4.58
12. Remote connect/disconnect - Case B	\$1.07	\$7.50	\$0.08	\$8.01	(\$2.44)	\$3.90
13. Supply Capacity Control	(\$5.53)	(\$3.84)	(\$9.18)	(\$6.57)	(\$6.93)	(\$4.99)
14. Load management at meters through a dedicated control circuit - Case B	(\$4.71)	(\$3.03)	(\$7.67)	(\$5.05)	(\$5.75)	(\$3.81)
14. Load management at meters through a dedicated control circuit - Case C	(\$4.71)	(\$3.03)	(\$7.67)	(\$5.05)	(\$5.75)	(\$3.81)
15. Interface for Other Load Control Devices - Case A	(\$14.70)	\$56.82	(\$24.67)	\$70.05	(\$25.32)	\$46.42
15. Interface for Other Load Control Devices - Case B	(\$14.70)	\$56.82	(\$24.67)	\$70.05	(\$25.32)	\$46.42
Facilitation of Customer Interaction						
16. Interface to Home Area Network using Open Standard - Case A	(\$11.22)	\$48.71	(\$15.69)	\$61.63	(\$16.95)	\$39.58
16. Interface to Home Area Network using Open Standard - Case B	(\$11.22)	\$48.71	(\$15.69)	\$61.63	(\$16.95)	\$39.58
16. Interface to Home Area Network using Open Standard - Case C	(\$29.84)	\$77.63	(\$46.25)	\$94.63	(\$43.41)	\$60.28
17. Provision of an in-home display - Case A	(\$23.88)	(\$18.19)	(\$23.16)	(\$19.92)	(\$20.76)	(\$16.63)
17. Provision of an in-home display - Case B	(\$75.43)	(\$60.64)	(\$79.61)	(\$66.41)	(\$67.88)	(\$55.44)
17. Provision of an in-home display - Case C	(\$75.43)	(\$60.64)	(\$79.61)	(\$66.41)	(\$67.88)	(\$55.44)
18. Interface for Communications from gas and water meters - Case A	(\$27.49)	(\$18.09)	(\$32.60)	(\$21.86)	(\$26.11)	(\$17.52)
18. Interface for Communications from gas and water meters - Case B	(\$27.15)	(\$17.74)	(\$32.25)	(\$21.51)	(\$25.86)	(\$17.28)
Supply and Service Monitoring						
19. Quality of supply and other event recording	(\$4.81)	\$9.99	(\$8.29)	\$10.88	(\$6.31)	\$7.18
20. Meter Loss of Supply Detection and Outage Detection	\$6.59	\$7.60	\$7.12	\$8.68	\$4.69	\$5.84
21. Customer Supply Monitoring	\$0.42	\$4.24	\$1.35	\$5.62	(\$0.36)	\$3.18
22. Real time service checking	(\$0.74)	\$0.62	(\$2.24)	(\$0.14)	(\$1.87)	(\$0.32)
Standards and Interoperability						
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	(\$60.64)	(\$30.32)	(\$66.41)	(\$33.20)	(\$55.44)	(\$27.72)
Upgradeability and configurability						
25. Remote reconfiguration	\$13.86	\$14.53	\$16.60	\$17.63	\$11.37	\$12.13
26. Remote software upgrade	\$19.47	\$22.50	\$24.76	\$28.09	\$16.75	\$19.52
27. Separate standard base plate	(\$46.76)	(\$3.09)	(\$47.95)	(\$0.13)	(\$44.19)	(\$4.27)
28. Non meter board installation	(\$106.98)	(\$71.62)	(\$114.29)	(\$75.56)	(\$95.40)	(\$63.08)
29. Plug and Play Device commissioning	\$5.26	\$5.26	\$5.98	\$5.98	\$4.99	\$4.99

Table G4.3: NPV of net benefits (lower and upper bound) per meter sensitivity analysis: scenario 4

Functionality	High Growth		Low Discount Rate		High Discount Rate	
	Discount Rate	Customer Growth Rate	Discount Rate	Customer Growth Rate	Discount Rate	Customer Growth Rate
	8.00%	1.9%	6.50%	0.0%	9.50%	0.0%
	Lower	Upper	Lower	Upper	Lower	Upper
Energy Measurement						
9. Remote reading (daily)	(\$2.96)	\$15.05	(\$5.18)	\$19.25	(\$3.95)	\$13.17
10. Power factor measurement	(\$2.46)	(\$1.50)	(\$3.50)	(\$2.22)	(\$2.67)	(\$1.67)
11. Export/import metering	\$3.89	\$4.42	\$4.94	\$5.52	\$3.35	\$3.84
Switching & Load Management						
12. Remote connect/disconnect - Case A	\$2.40	\$7.17	\$3.28	\$8.62	\$0.15	\$4.58
12. Remote connect/disconnect - Case B	\$1.07	\$7.50	\$0.08	\$8.01	(\$2.44)	\$3.90
13. Supply Capacity Control	(\$5.88)	(\$4.20)	(\$9.73)	(\$7.12)	(\$7.33)	(\$5.40)
14. Load management at meters through a dedicated control circuit - Case B	(\$4.71)	(\$3.03)	(\$7.67)	(\$5.05)	(\$5.75)	(\$3.81)
14. Load management at meters through a dedicated control circuit - Case C	(\$4.71)	(\$3.03)	(\$7.67)	(\$5.05)	(\$5.75)	(\$3.81)
15. Interface for Other Load Control Devices - Case A	(\$14.70)	\$56.82	(\$24.67)	\$70.05	(\$25.32)	\$46.42
15. Interface for Other Load Control Devices - Case B	(\$14.70)	\$56.82	(\$24.67)	\$70.05	(\$25.32)	\$46.42
Facilitation of Customer Interaction						
16. Interface to Home Area Network using Open Standard - Case A	(\$11.22)	\$48.71	(\$15.69)	\$61.63	(\$16.95)	\$39.58
16. Interface to Home Area Network using Open Standard - Case B	(\$11.22)	\$48.71	(\$15.69)	\$61.63	(\$16.95)	\$39.58
16. Interface to Home Area Network using Open Standard - Case C	(\$29.84)	\$77.63	(\$46.25)	\$94.63	(\$43.41)	\$60.28
17. Provision of an in-home display - Case A	(\$23.88)	(\$18.19)	(\$23.16)	(\$19.92)	(\$20.76)	(\$16.63)
17. Provision of an in-home display - Case B	(\$75.43)	(\$60.64)	(\$79.61)	(\$66.41)	(\$67.88)	(\$55.44)
17. Provision of an in-home display - Case C	(\$75.43)	(\$60.64)	(\$79.61)	(\$66.41)	(\$67.88)	(\$55.44)
18. Interface for Communications from gas and water meters - Case A	(\$27.49)	(\$18.09)	(\$32.60)	(\$21.86)	(\$26.11)	(\$17.52)
18. Interface for Communications from gas and water meters - Case B	(\$27.15)	(\$17.74)	(\$32.25)	(\$21.51)	(\$25.86)	(\$17.28)
Supply and Service Monitoring						
19. Quality of supply and other event recording	(\$4.81)	\$9.99	(\$8.29)	\$10.88	(\$6.31)	\$7.18
20. Meter Loss of Supply Detection and Outage Detection	\$6.59	\$7.60	\$7.12	\$8.68	\$4.69	\$5.84
21. Customer Supply Monitoring	\$0.42	\$4.24	\$1.35	\$5.62	(\$0.36)	\$3.18
22. Real time service checking	(\$1.09)	\$0.26	(\$2.79)	(\$0.69)	(\$2.28)	(\$0.72)
Standards and Interoperability						
23. Interoperability for meters/devices at application layer	n/a	n/a	n/a	n/a	n/a	n/a
24. Hardware component interoperability	(\$60.64)	(\$30.32)	(\$66.41)	(\$33.20)	(\$55.44)	(\$27.72)
Upgradeability and configurability						
25. Remote reconfiguration	\$13.86	\$14.53	\$16.60	\$17.63	\$11.37	\$12.13
26. Remote software upgrade	\$19.47	\$22.50	\$24.76	\$28.09	\$16.75	\$19.52
27. Separate standard base plate	(\$46.76)	(\$3.09)	(\$47.95)	(\$0.13)	(\$44.19)	(\$4.27)
28. Non meter board installation	(\$106.98)	(\$71.62)	(\$114.29)	(\$75.56)	(\$95.40)	(\$63.08)
29. Plug and Play Device commissioning	\$5.26	\$5.26	\$5.98	\$5.98	\$4.99	\$4.99

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