



**Santos**

## Approaching EEO as part of an integrated response to Climate Change

25 May 2009

# Santos energy use

## Energy used to extract, process and export hydrocarbon

- Santos total energy use ~ 30PJ/year
- Moomba Plant energy use ~ 15PJ/year
- Sources of fuel use - compressors, boilers, gas turbine alternators, heaters, pumps
- Loss of hydrocarbon to vent and flare



# Energy Efficiency Assessment – results and response

## Moomba facility – as reported December 08

Status of Opportunities	Number of Opportunities	Estimated energy savings per annum (GJ)
Under investigation	6	912,000
To be implemented	1	373,000
Implementation commenced	4	2,003,000
Implemented	4	1,760,000
Not to be implemented	3	336,000
<b>Total</b>	<b>18</b>	<b>5,384,000</b>

# Energy Efficiency Assessment

## Key project examples...

- Single residue (export) compressor
  - Cost ~ \$2 million
  - Saving ~ 1,000 TJ gas per annum
- Moomba waste heat boiler refurbishment
  - Cost ~ \$2 million
  - Saving ~ 1,200 TJ gas per annum
- CO2 train absorber level control valves
  - Cost ~ \$1 million
  - Saving ~ 300 TJ gas per annum

# Santos Climate Change Policy

## Energy efficiency commitments embedded in the Climate Change policy...

- Continue to reduce the carbon intensity of Santos' products by focussing on energy efficiency, technology development and by embedding a carbon price in all activities
- Use energy more efficiently by identifying opportunities to implement energy efficiency projects and report their progress
- Pursue no flaring or venting of associated gas, unless there are no feasible alternatives



# Challenges & Opportunities

## Challenges:

- Access to capital & resources

## Opportunities:

- CPRS - embedding a carbon price
- Carbon cost abatement curves

