

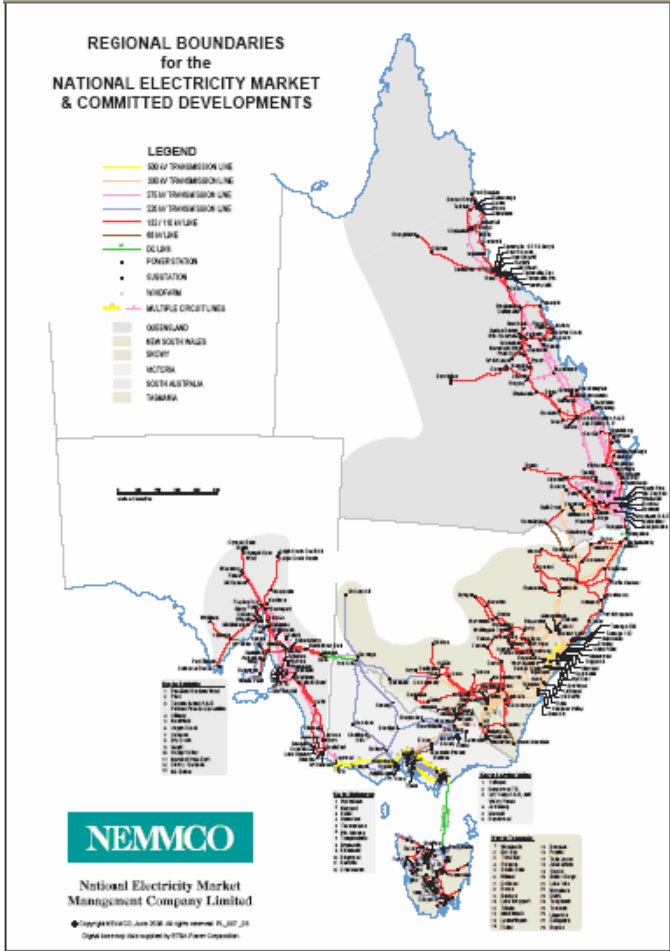
**Saving Electricity in a Hurry
Australian National Electricity Market
Emergency Management Processes**

15 May 2006

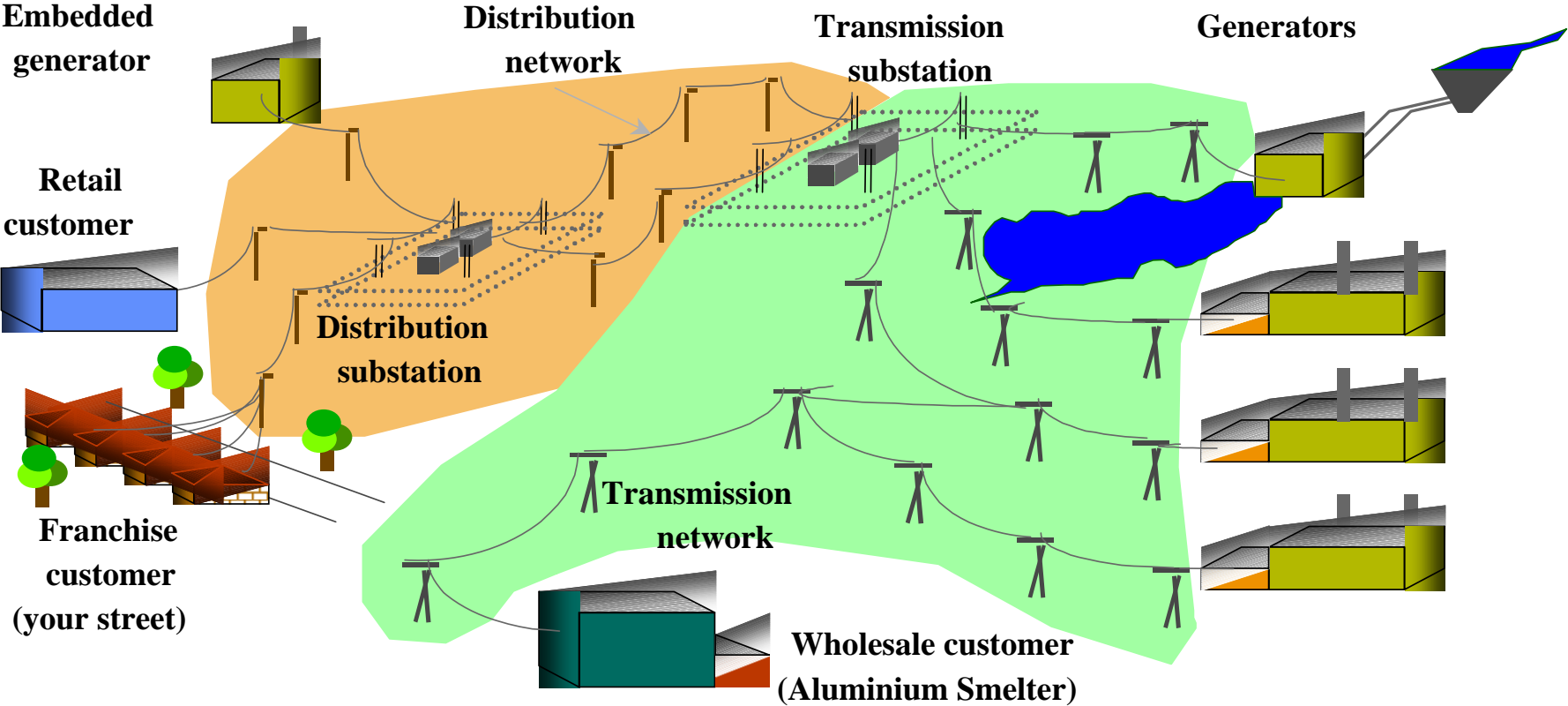
Dr Charlie Macaulay

General Manager Operations and Planning

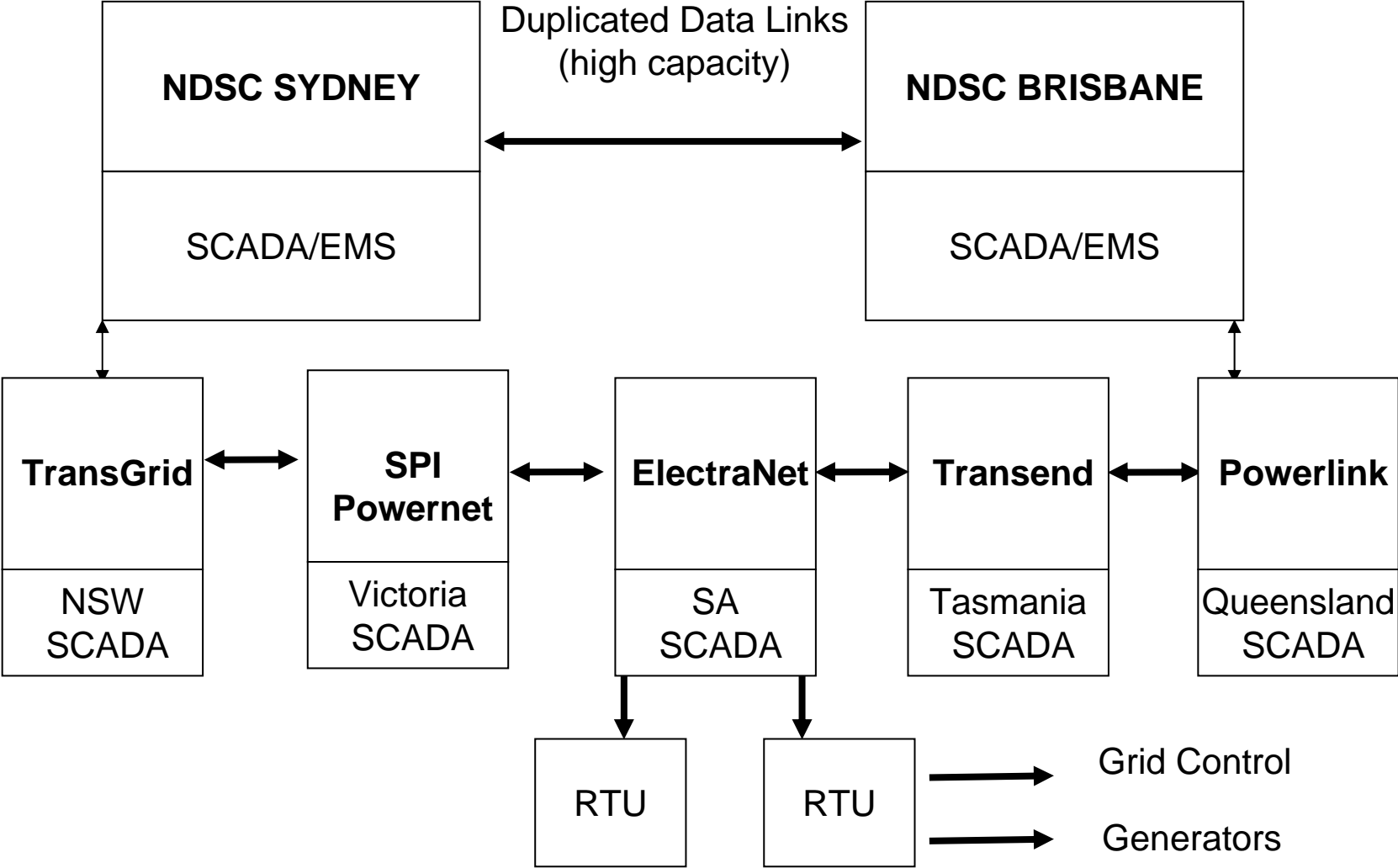
NEM Regions



Electricity Industry Structure



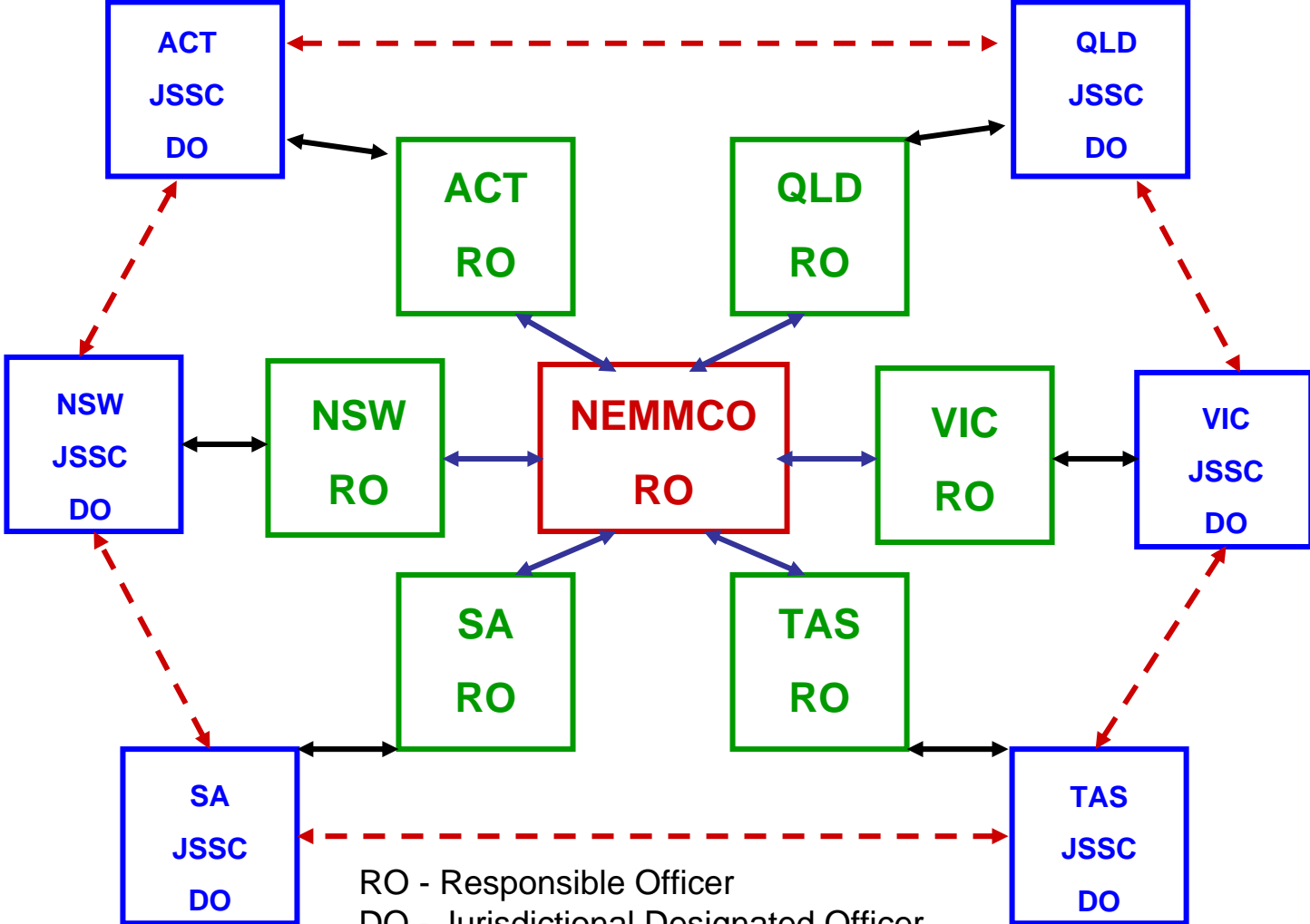
National Dispatch Security Centre



NEM Emergency Protocol

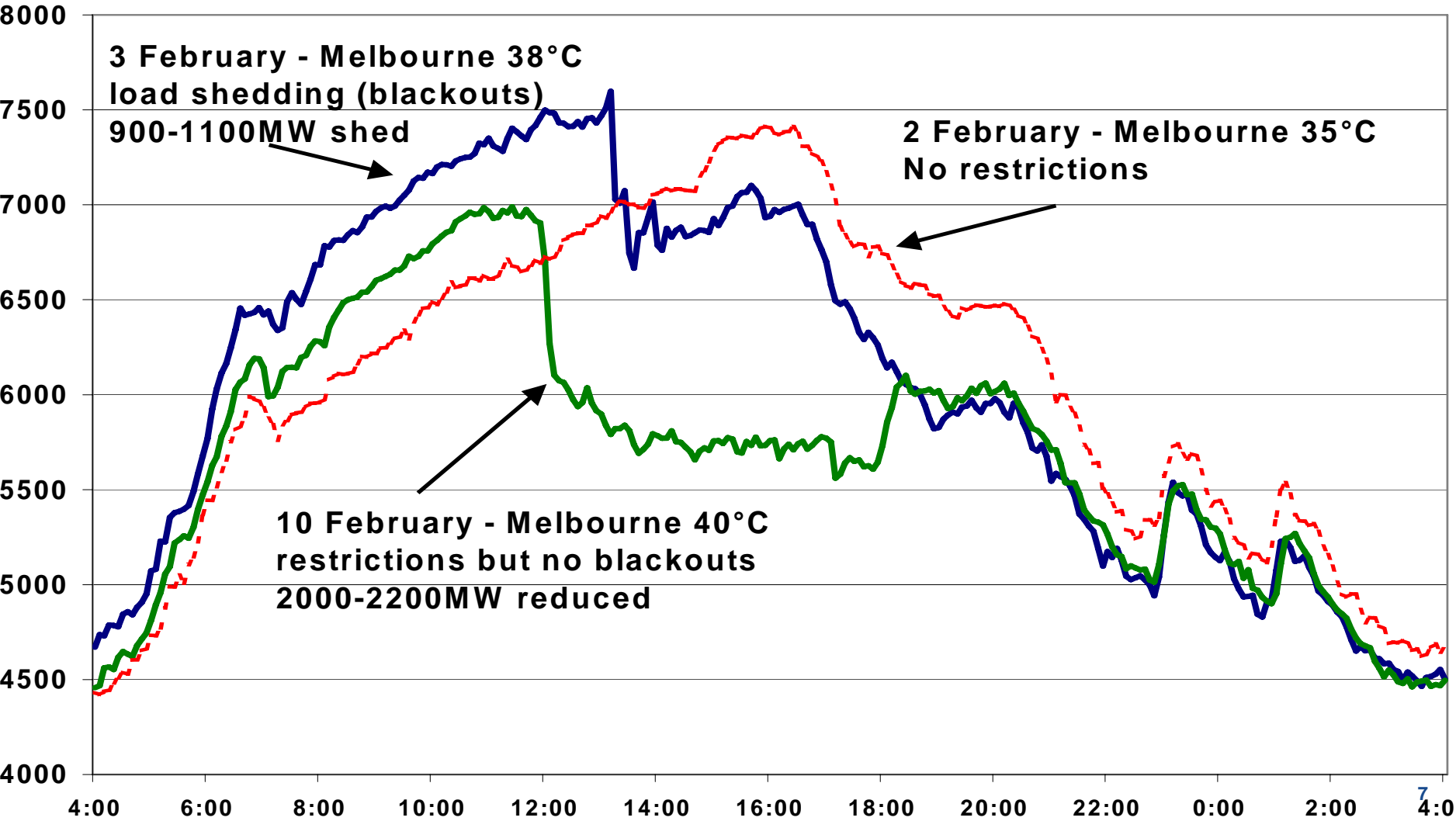
- Details communications protocol between NEMMCO and Jurisdictions in power system emergencies / crises
- Supported by NEMMCO and TNSP's Power System Emergency Management Plan (PSEMP)
- Works effectively – proven in action and is “exercised” regularly via desk top and role play exercises
- Jurisdictions “SHARE THE PAIN” in times of scarcity

NEM Emergency Protocol – Communications Structures

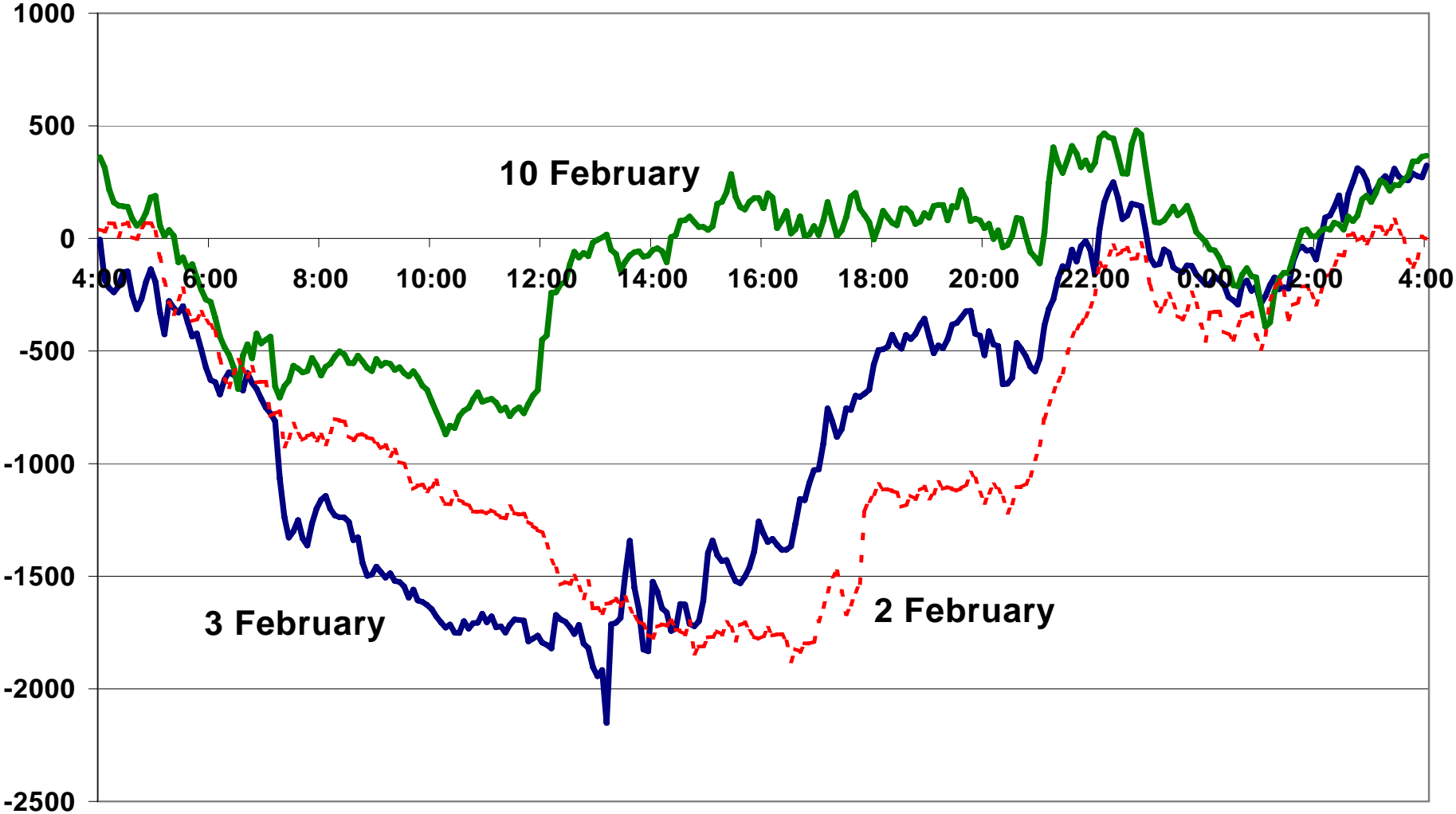


RO - Responsible Officer
DO - Jurisdictional Designated Officer
JSSC - Jurisdictional System Security Coordinator

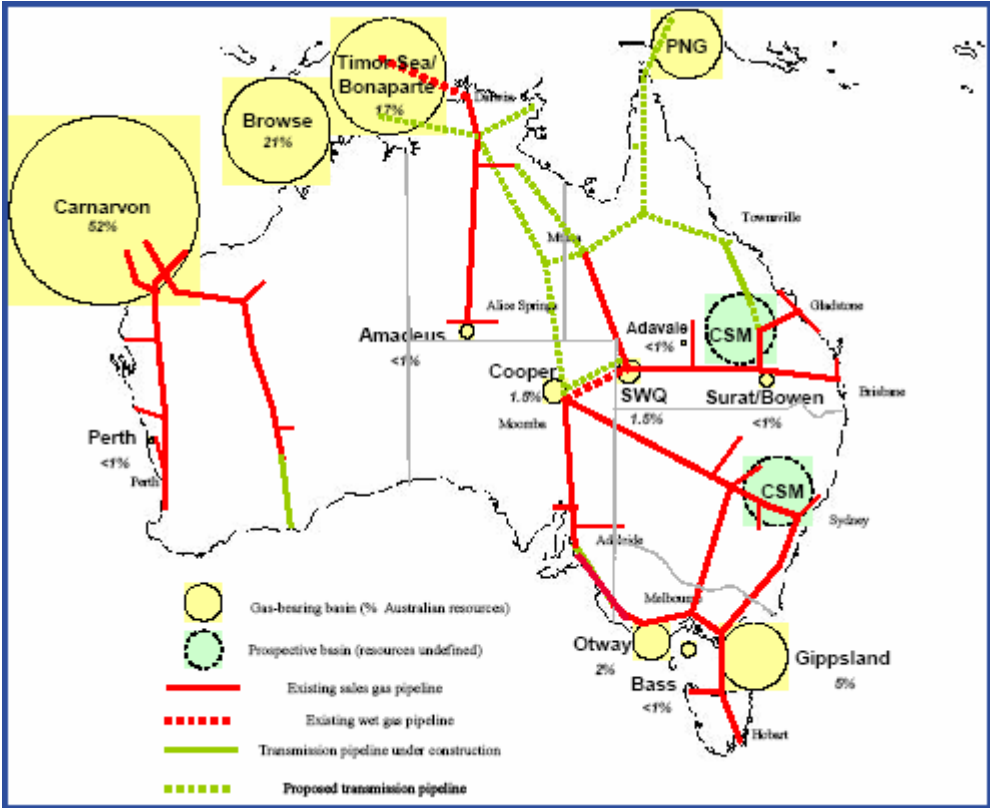
Victorian shortage - demand



Victorian shortage – flow from NSW



Gas Resources and Pipelines



Source: ACIL Tasman

Gas Operation as % of Regional Generation Capacity

QLD	15%
NSW	>2%
VIC	21%
SA	75%
TAS	10%

- Gas generation likely to expand significantly over next 10 years (\approx 8000 MW new generating capacity required in the next 10 years)
- This will increase interdependency between gas and electricity

Energy Markets Monitoring Requirements

➤ **To detect emerging supply emergencies**

