

COTA Tasmania

NATIONAL ENERGY MARKET SEMINAR

AGENDA

- National Energy Market Overview
- How energy prices are set
- National Energy Market Framework
- Current Issues in the NEM
- Developments in Tasmania

National Energy Market (NEM)

- 'National' includes all jurisdictions except WA and NT
- Electricity and Gas

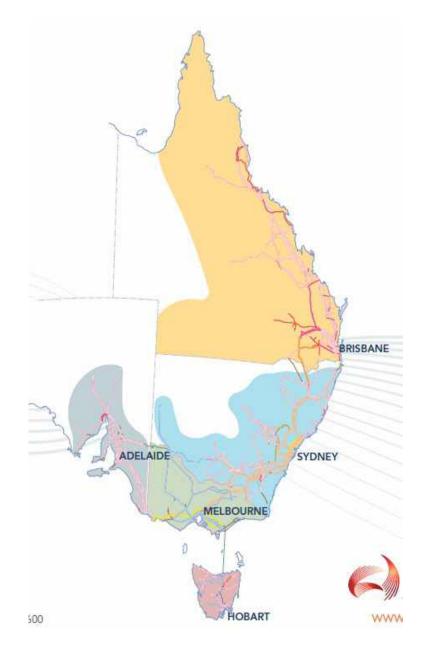
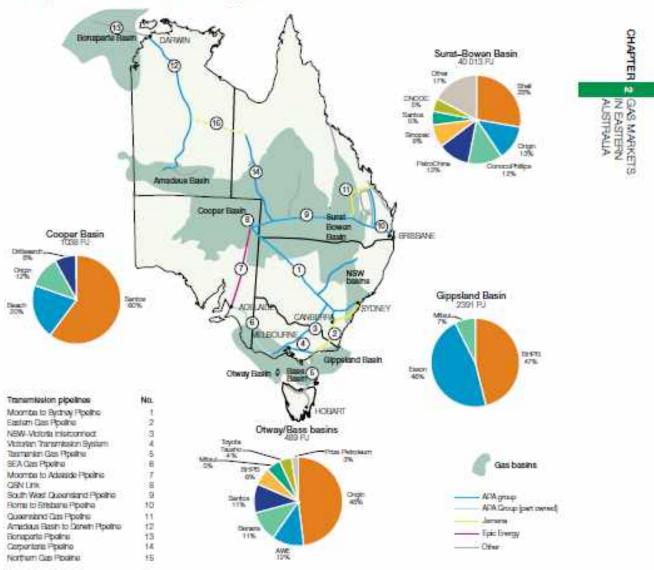


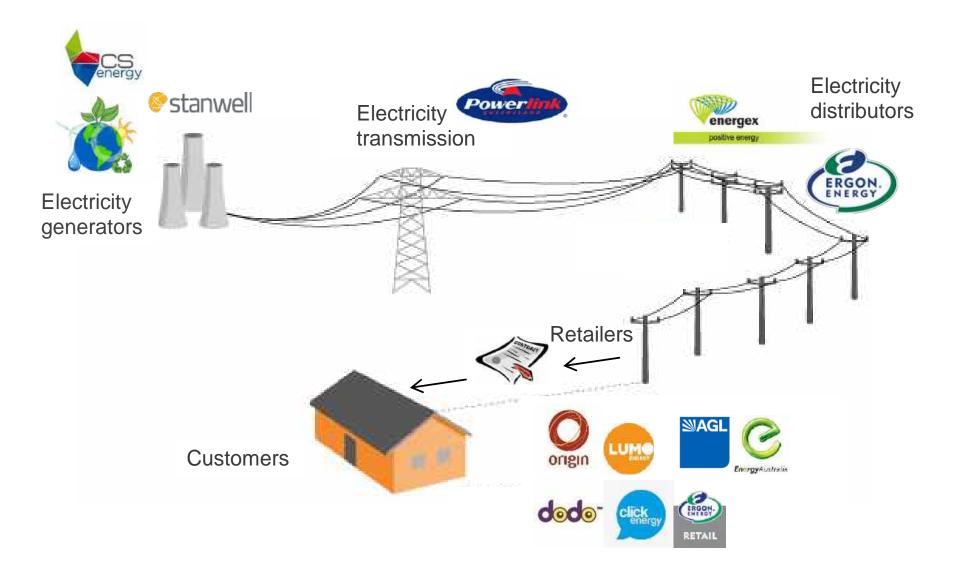
Figure 2.1
Eastern gas market—basins and transmission pipelines



Note: Pie charts illustrate market shates in 2P (proved plus probable) gas reserves for each basin. Not all major insnamelsian pipelines are shown. Table 2.3 and figure 2.7 provide further detail.

Source AEH.

Electricity supply chain - Queensland



National Electricity Market

Annual generation by fuel type

(2016/17):

100% 196.5 TWh

77% 150,9 TWh COAL

9% 17.6 TWh SAS

8% 15,5 TWh

WATER

5% 10.6 TWh WIND

0.3% 0.6 TWh SOLAR

0.7%

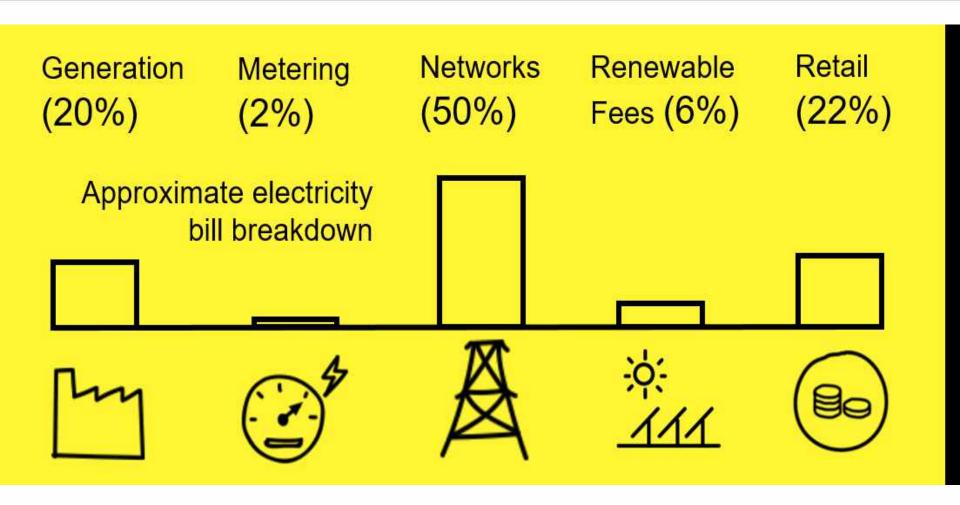
OTHER

Data does not include generation from rooftop solar PV systems.

How are electricity prices set?



What makes up a typical electricity bill



Price Setting

Price Component	Responsibility	
Wholesale generation	Competitive energy market	
Network	Regulated by the AER	
Solar payments	Jurisdictional schemes	
Green schemes	Federal government	
Retailer costs	Competitive market	

Regulated or De-regulated Market?

Regulated Market	De-regulated Market	
Standing offer Prices: set by regulator Terms & conditions: standard and regulated	 Standing offer (30% of customers) Prices: set by retailer Generally higher than market offers Change 6 monthly Terms & conditions: standard and regulated Open ended contract term 	
	Market offer (70% of customers) Prices: set by retailer • Subject to change anytime Terms & conditions: set by retailer - varied • May have fixed term contract	

The government regulates electricity in regional Queensland, Tasmania and the ACT

National Energy Market Framework

- Legislation
- NEM Institutions & other bodies
- Jurisdictional perspectives

NEM – Legislative framework

COAG Energy Market Agreement

Executed by COAG members

The objectives of the Agreement are:

- the promotion of the long term interests of consumers with regard to the price, quality and reliability of electricity and gas services; and
- the establishment of a framework for further reform



NEM – Legislative framework

National Electricity Objective

to promote efficient investment in, and efficient operation and use of, electricity services for the long term interests of consumers of electricity with respect to – price, quality, safety, reliability, and security of supply of electricity; and the reliability, safety and security of the national electricity system.

National Gas Objective

to promote efficient investment in, and efficient operation and use of, natural gas services for the long-term interests of consumers of natural gas with respect to price, quality, safety, reliability and security of supply of natural gas.

NEM – Legislative framework

- National Electricity Law
 - plus regulations and rules

- National Gas Law
 - Plus regulations and rules
- National Energy Customer Framework (NECF)

Jurisdictional application of the NECF

State	National Energy Customer Framework (NECF)	
Lead legis	slation	
SA	National Energy Retail Law (South Australia) Act 2011	
Applicatio	on in remaining states and territories	
VIC	N/A	
NSW	National Energy Retail Law (Adoption) Act 2012	
ACT	National Energy Retail Law (ACT) Act 2012	
QLD	National Energy Retail Law (Queensland) Act 2014	
TAS	National Energy Retail Law (Tasmania) Act 2012	
NT	N/A	
WA	N/A	

NEM Institutions



National Energy Market (NEM) Institutions

Council of Australian
Governments

COAG Energy Council

Standing Committee of Officials (SCO)

Energy Security Board

Australian
Energy Markets
Commission
(AEMC)

Australian Energy Regulator (AER)

Australian Energy Market Operator (AEMO)

Energy
Consumers
Australia (ECA)

AER Consumer Challenge Panel AER Customer Consultative Group ECA Reference Group

National Energy Market (NEM) Institutions

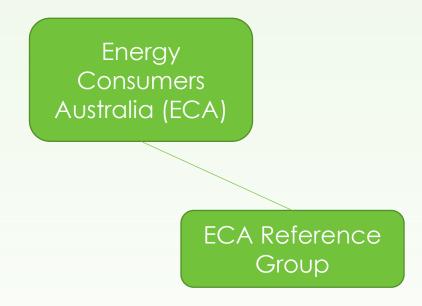
Australian Energy Regulator (AER)

AER Consumer Challenge Panel AER Customer Consultative Group

AER

- Monitors and regulates the wholesale market
- Regulates networks & sets revenues
- Monitors compliance and regulates retail market (approved and exempt retailers).

National Energy Market (NEM) Institutions



ECA

- Promotes the interests of residential and small business consumers
- Grant funding role for advocacy and research

Tasmanian Jurisdictional arrangements

Tasmania has:

- 1 dominant government-owned generator (hydro Tasmania)
- 1 combined electricity transmission & distribution network
- 1 gas transmission pipeline
- 1 gas distribution network
- 1 electricity retailer (for residential consumers)
- 2 gas retailers (for residential consumers)
- Tasmanian Economic Regulator
- Department of State Growth
- Energy Ombudsman Tasmania
- Consumer, Building & Occupational Services Technical Regulator

Current Issues in the NEM

- Finkel Report National Energy Guarantee
- ACCC review of electricity supply and prices
- New products and services
- Cost-reflective tariffs
- Contestable metering
- Embedded networks

Tasmanian Developments

Regulatory determination for TasNetworks

Basslink 2 & pumped hydro storage



QUESTIONS?

