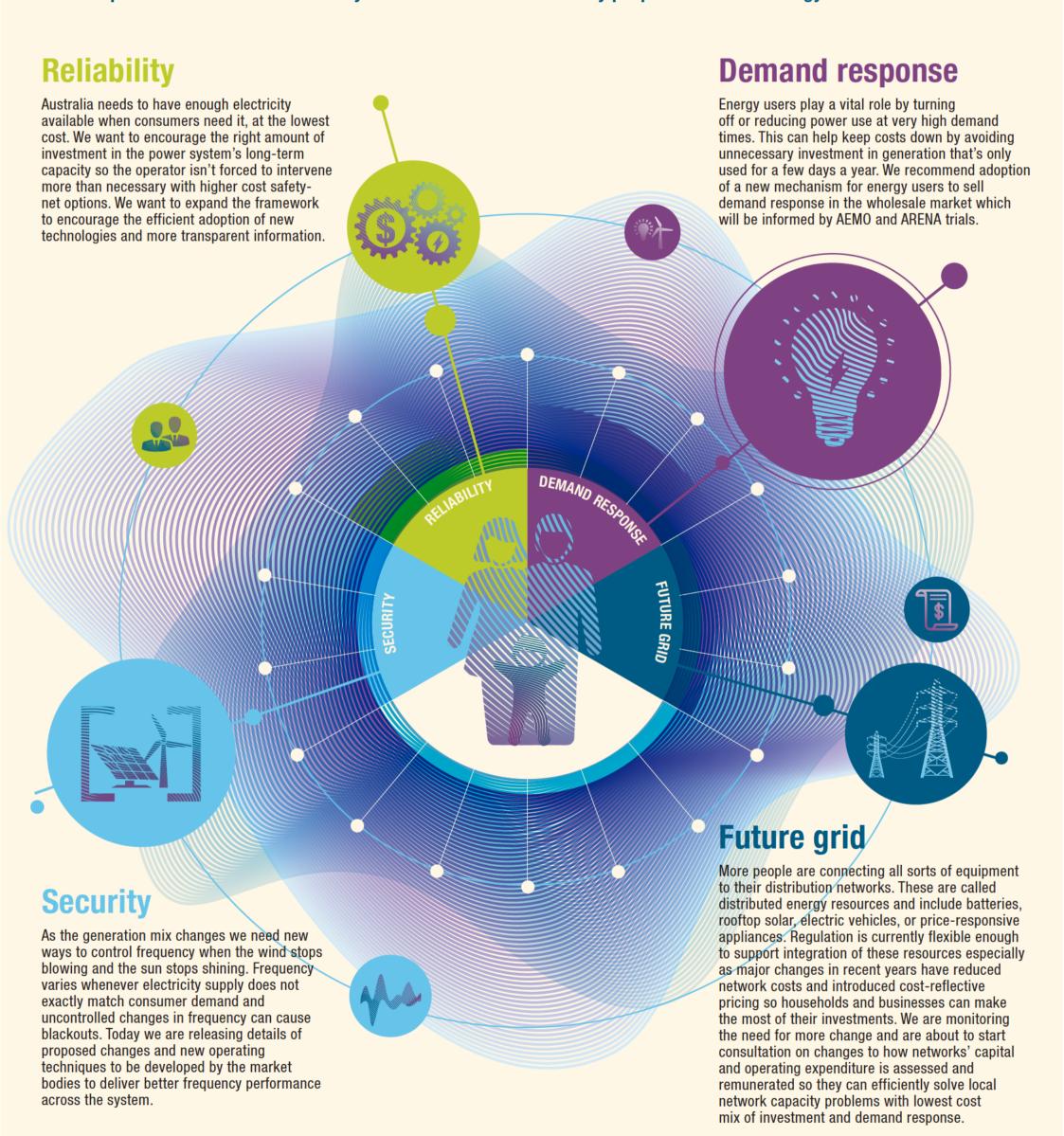
AUSTRALIAN ENERGY MARKET COMMISSION

WORKING ON THE NUTS AND BOLTS OF A RESILIENT POWER SYSTEM

THREE NEW REPORTS ADDRESS ISSUES OF ENERGY SECTOR TRANSFORMATION 26 JULY 2018

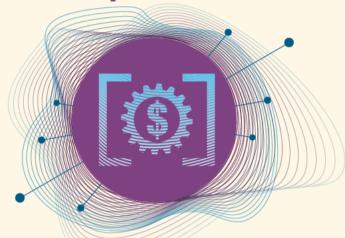
Because of the technology revolution families and businesses are not just electricity consumers. They can be power producers. Expanding large-scale and roof-top renewable generation and storage is an opportunity. It also means we must change how we manage the system to keep it working well. We're now at the point where we need to trade-off the costs required to build a more secure system and deliver the reliability people want as the energy sector transforms.

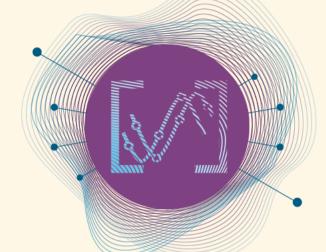


KEY PROJECTS UPDATE

We are updating rules and regulations so everyone can be confident about the certainty of electricity supply. Today's reports focus on supporting a reliable and secure power system at least cost to consumers.

Final reports







Reliability frameworks review recommendations

Improve the information available to the market about the transparency of forecasts so decisions made by market participants, the operator, regulators and policy makers are better-informed.

Adapt the intervention framework – including directions, instructions and strategic reserves – so it is fit for the purposes of a changing power system and only used when necessary.

Integrate more demand response into the wholesale market by adopting:



A wholesale demand response mechanism, supported and informed by demand response trials proposed by AEMO and ARENA.



A voluntary, short-term forward market to allow trading of financial contracts closer to real time and so increase price certainty for demand response.



More opportunities for consumers to offer their demand response in the wholesale market including giving consumers the ability to contract with multiple retailers or aggregators at the same connection point.

Frequency control frameworks review recommendations

New rules to enable new technologies and service providers to provide frequency control services.

Regular reporting by AEMO and the AER on frequency outcomes to promote transparency and help market participants make investment and operational decisions.

Detailed consideration of ways to procure essential frequency services in the longer term in a way that recognises the capabilities of all potential technologies and service providers.

AEMO-led trials and other actions to determine how frequency performance can be improved in the short term and new business models like virtual power plants can integrated.

Finishes all Finkel recommendations on security.

Electricity network economic regulatory framework review

This is our latest annual report on promoting efficient investment in the grid of the future.

It analyses how financial incentives for network businesses need to change over time so networks embrace new technology where it's the cheapest way to help manage the grid, and how the regulatory framework may need to change more broadly to support a grid with more decentralised, local renewable generation.

Our 2019 review will look at how networks' capital and operating expenditure should be assessed and how those business revenues should be regulated.

This report fulfils the Finkel recommendation to analyse capital expenditure bias in the current regulatory framework and recommends broader powers for the Australian Energy Regulator to review imprudent capital expenditure.

Finishes three key Finkel recommendations.

Working together on least cost solutions to technology shocks

The single biggest reason for electricity price changes is structural change in the wholesale generation sector



Massive change

New wind and solar generation is entering the market. At the same time families and businesses are not just electricity consumers – more people are generating, storing and selling the power they make into the grid.



Technical impacts

Increased reliance on renewable generation affects technical characteristics of the system. More services will be needed to secure the system and may affect prices long term.



New ways to operate

We need to operate the new-look power system differently.



Evolving the framework

The COAG Energy Council and market bodies are making change happen all across the supply chain to cut the cost of transformation for consumers.



Integrating policy

Integrating energy and emissions policy will send clear investment signals to the market so the right generation can be built in the right place at the right time.



Orderly transformation

The key to an orderly restructure of the electricity sector is to keep making market reforms that don't add unnecessary costs for customers. The Energy Security Board is working on the design of the national energy guarantee which will put downward pressure on wholesale prices.