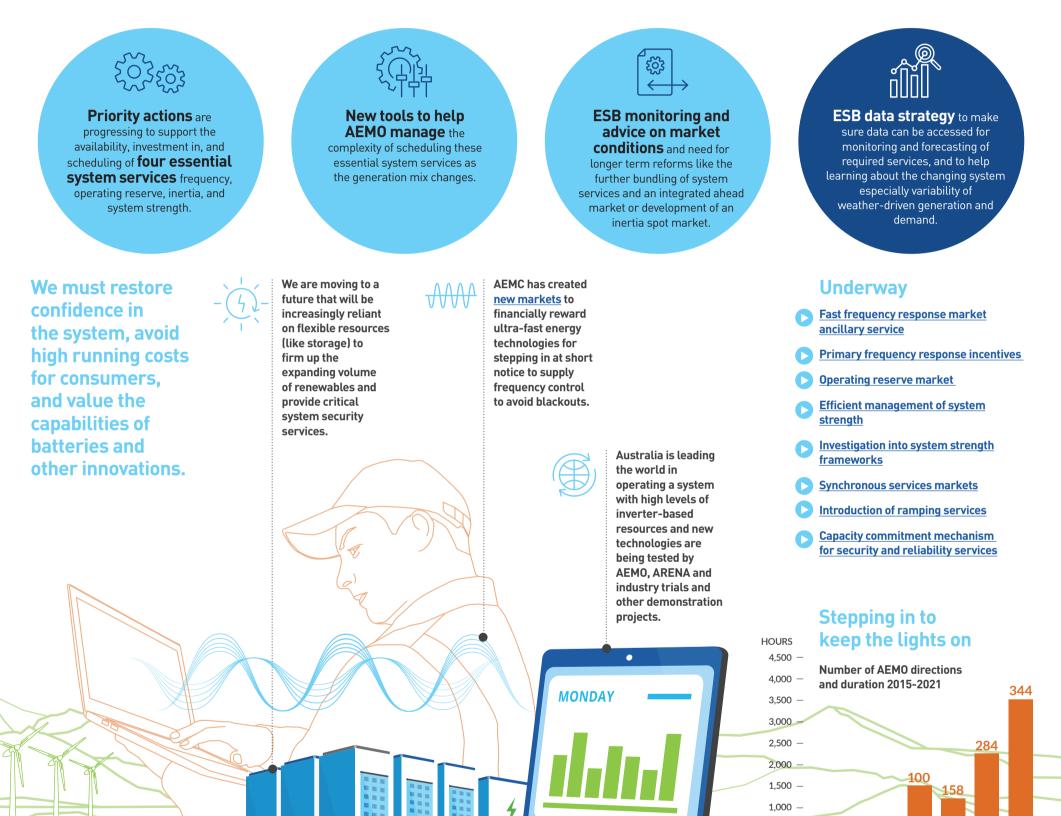


## **BACKING UP POWER SYSTEM SECURITY**

Lack of essential system services has cost consumers a lot of money in recent years as a result of expensive interventions. New technical backups (frequency, inertia, system strength, operating reserves) are needed urgently now we have increasing wind and solar generation and falling levels of coal-fired power. New technologies like large-scale batteries and flexible demand will help make the system stronger.

## Energy Security Board recommendations enabling the services you need to keep the lights on



Installed storage is expected to increase by **800%** within two decades



Note: values above each column represent number of directions issued

13

2016/17

**Security** = all about the power system's ability to keep technical parameters like voltage, frequency, current flows; within safe limits and control.

## Technical reforms cannot wait until 2025 so this work is already underway

The plan is focused on properly valuing all services necessary to maintain essential system capabilities and giving AEMO tools needed to efficiently schedule these services.

NOW New AEMC rules and other rule change projects are underway to address these issues. NEXT Market bodies working with stakeholders on details so we can get the right scheduling tools in place for AEMO.

## **FUTURE**

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6

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2015/10

Market bodies to monitor system needs as changing generation pushes the limits of system security and operational experience.