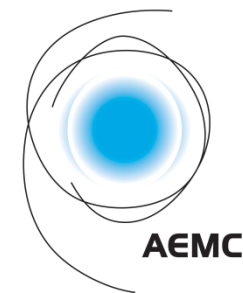


## Public forum Integration of electricity storage technologies

**Agenda**  
**Thursday 18 June 2015**  
**Sheraton on the Park, 161 Elizabeth Street, Sydney**

<b>Time</b>	<b>Item</b>	<b>Speaker</b>
<b>From 9:00am</b>	<b>Registration</b>	
9:30am	Welcome and objectives of the AEMC's work	Brian Spalding, Commissioner, AEMC
10:00am	The CSIRO's findings – Electricity storage technologies and their applications	<ul style="list-style-type: none"> <li>– Mark Paterson, Domain Leader, Grids + Renewable Energy Integration, CSIRO</li> <li>– Sam Behrens, Research Group Leader, Demand Side Energy Technologies, CSIRO</li> </ul>
<b>11:15am</b>	<b>Morning tea</b>	
11:30am	Guest speaker 1 – Integrating a grid-scale storage device	Bill Jackson, Pricing Manager, ElectraNet
12:00pm	Guest speaker 2 – International experiences of integrating storage behind the meter	Phil Keogan, General Manager for Australia and New Zealand, Sunverge Energy
<b>12:30pm</b>	<b>Lunch</b>	



# Integration of storage in Australia's energy markets

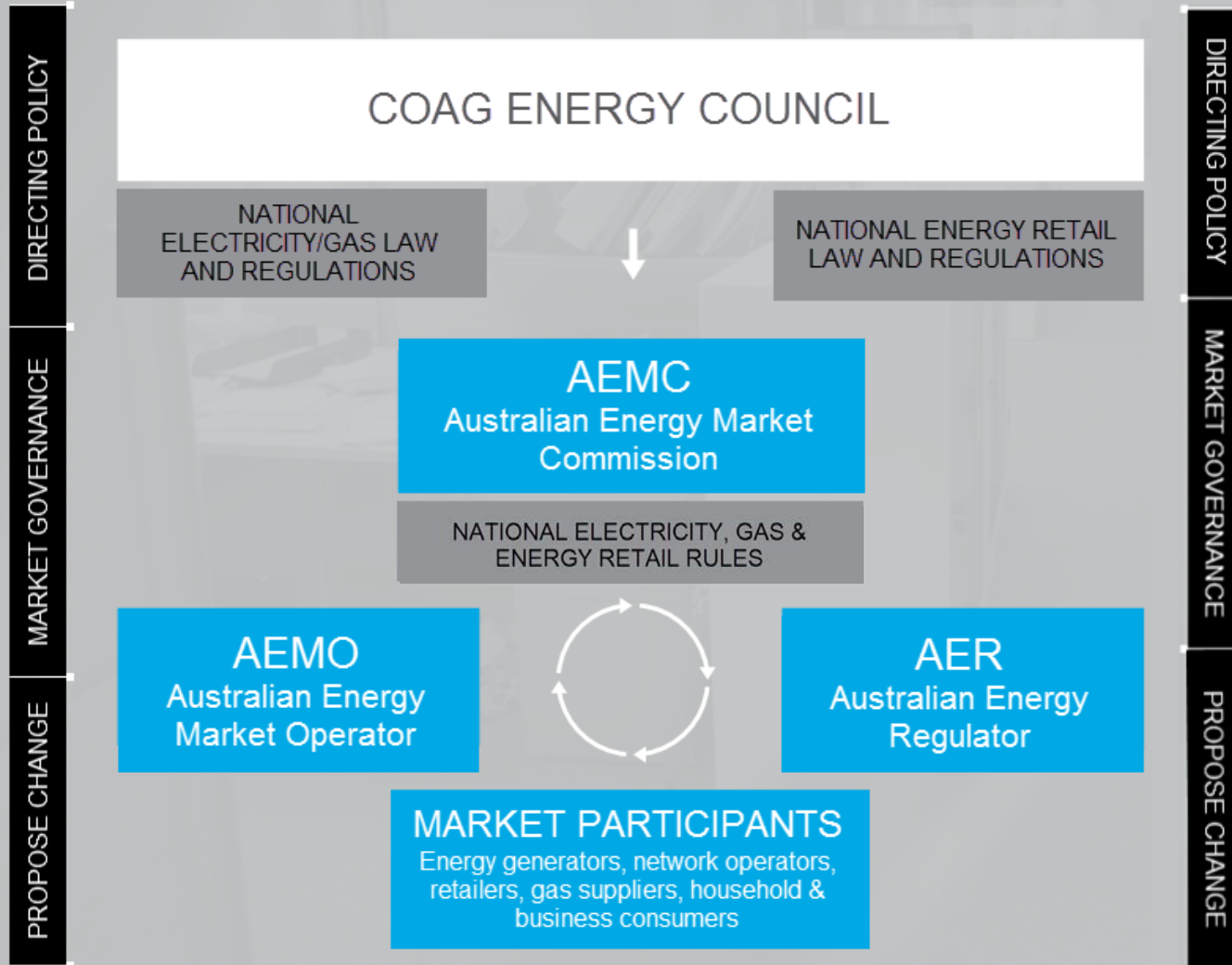
Public Forum – 18 June 2015



**BRIAN SPALDING**  
COMMISSIONER  
AUSTRALIAN ENERGY MARKET COMMISSION

# Australian Energy Markets

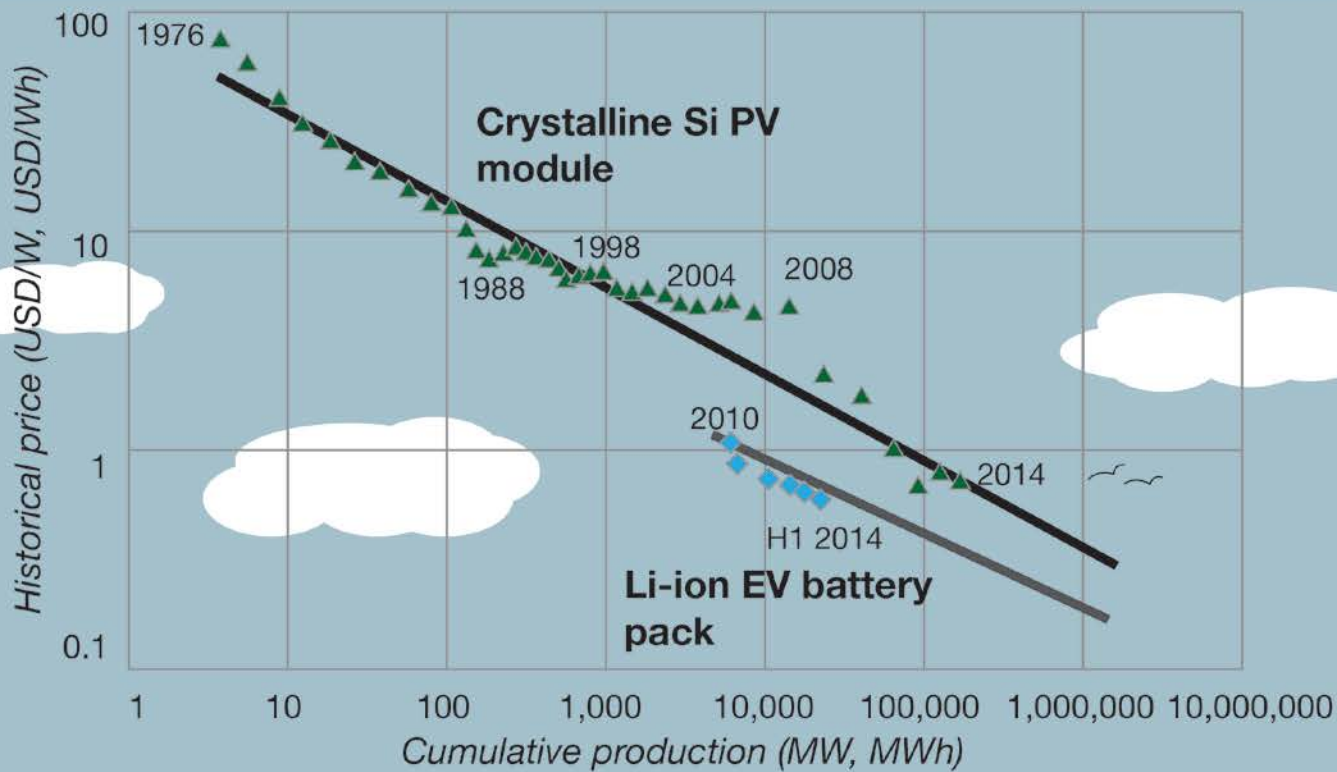
## Regulation and governance arrangements



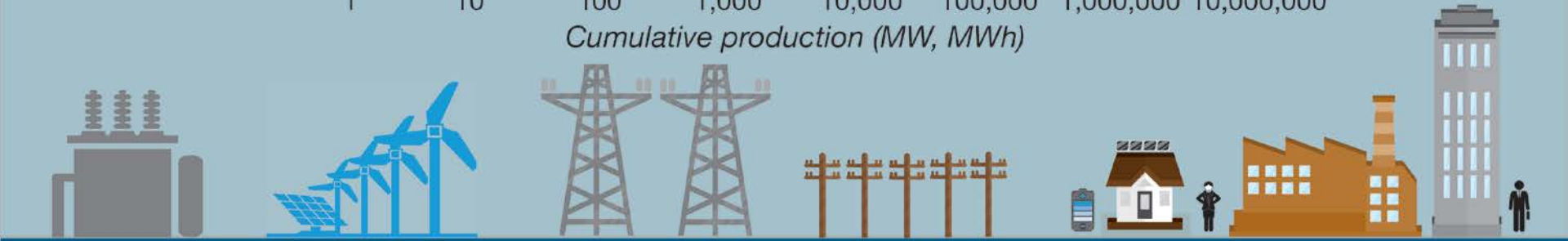
# Increasing impact of technological change

## AEMC is undertaking a technology work program

- Changes in technology, as well as the **pace of those changes**, have the potential to fundamentally alter Australia's energy markets
- Energy policy and the associated regulatory framework must be able to **adapt** to these changes to allow a dynamic market response
  - The AEMC needs to have a strong understanding of this **new market dynamic** and its likely impacts on consumer **costs and behaviours**, as well as the incentives and **business models** of market participants
- The AEMC is undertaking a **technology-focused work program** to identify:
  - **Possible barriers** to the deployment of new technologies by new or existing market players
  - Whether the **consumer protection framework** remains fit for purpose
  - Incentives or disincentives for **business model evolution**



Source: Bloomberg New Energy Finance.



## Generation

- Ramping
- Spinning reserve
- Wind farm integration
- Frequency control
- Black start

## Transmission & distribution

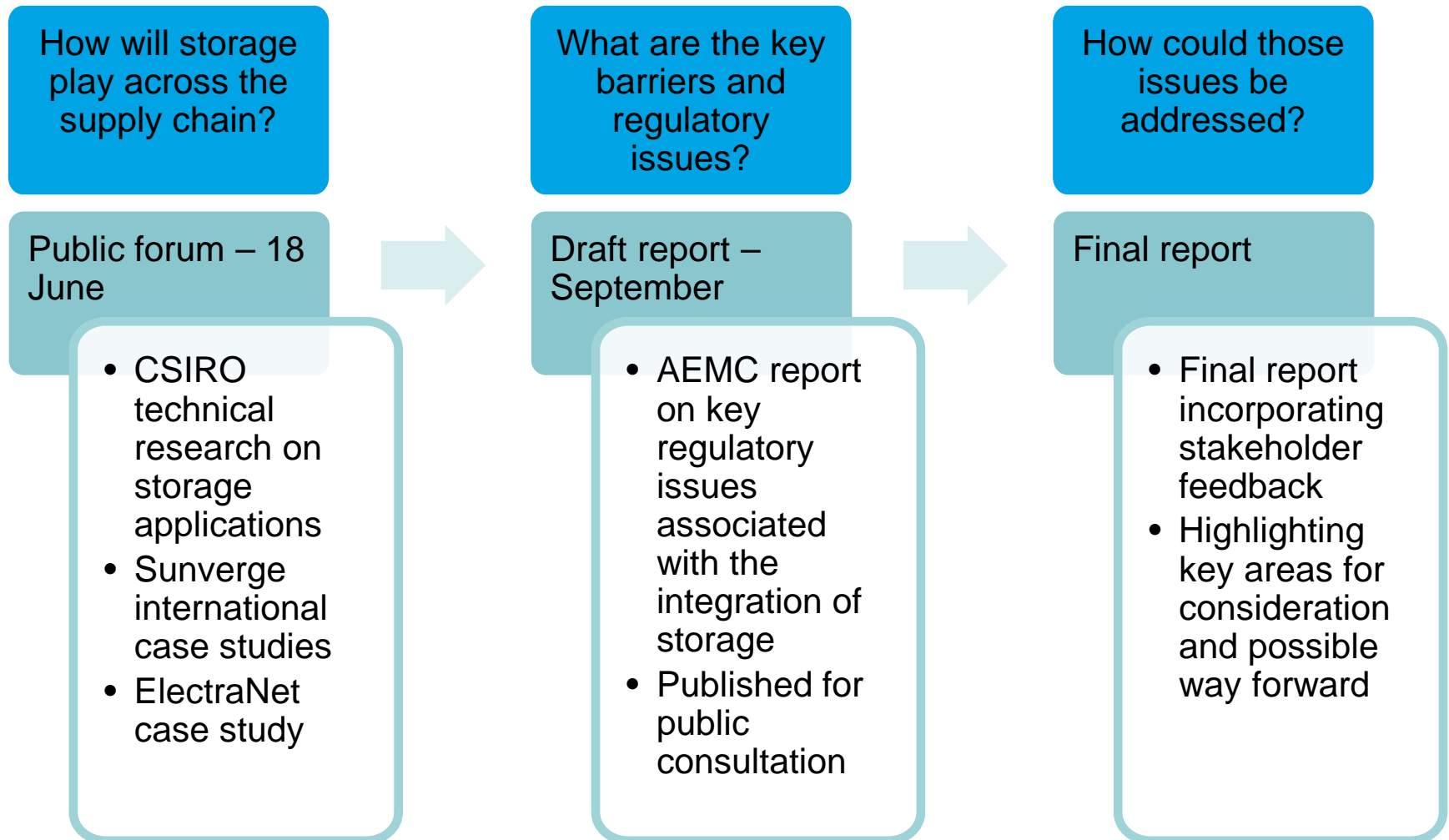
- Reduces T&D congestion
- Substation overloading
- Power quality and outages
- Reduces conductor upgrades
- Support distribution generation

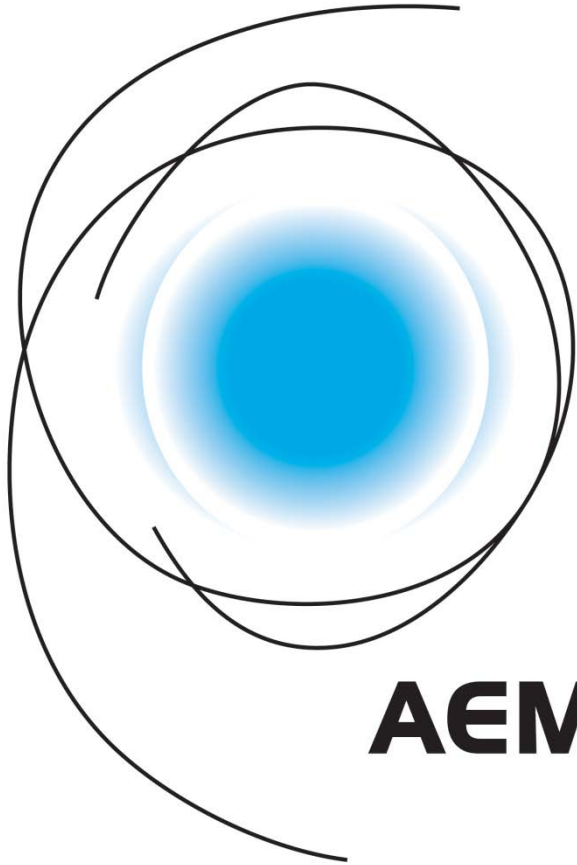
## Consumers

- Leverage TOU pricing
- Demand charge reduction
- Demand response
- Firms distributed solar
- Critical load support

# AEMC Integration of Storage project

## Objectives and output





**AEMC**