# 2020 Integrated System Plan



The Australian Energy Market Operator's (AEMO) Integrated System Plan (ISP) provides a 20-year roadmap for the National Electricity Market (NEM) through the energy transition period to 2040.

#### **Consultation**

AEMO facilitated an 18-month consultation program in developing the draft and final ISP, along with the Forecasting and Planning Scenarios, Inputs and Assumption Report, including:







webinars hosted

workshops

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85 written submissions provided

Government

policies

## **Considerations**



reforms







technologies and services



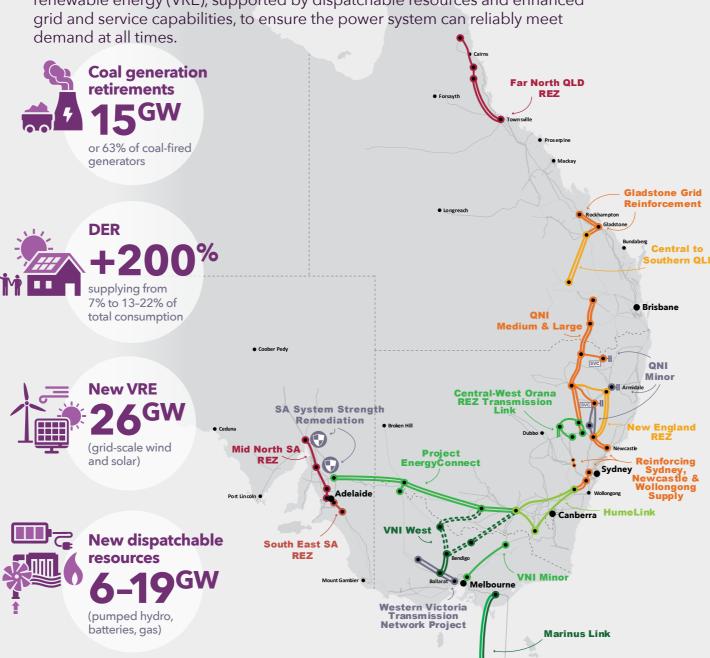
in DER

**Emissions** 

reductions

## **Expected changes to 2040**

The ISP modelling confirms that the least-cost, least-regret transition of the NEM is from a centralised coal-fired generation system to a highly diverse portfolio dominated by distributed energy resources (DER) and variable renewable energy (VRE), supported by dispatchable resources and enhanced



## **Optimal development path and net benefits**

The ISP sets out the optimal development path needed for Australians to enjoy an affordable, secure and reliable energy future. If implemented, these investments would deliver \$11 billion in net market benefits, while meeting the security, reliability and emissions expectations of energy consumers.

Classification	Project	Indicative timing
committed	SA System Strength Remediation	2021-22
	QNI Minor	2021-22
	Western Victoria Transmission Network Project	2025-26
Actionable <sup>1</sup>	VNI Minor	2022-23
	Project EnergyConnect	2024-25
	HumeLink	2025-26
	Central-West Orana REZ Transmission Link	Mid-2020s
	VNI West <sup>2</sup>	2027-28
	Marinus Link <sup>2</sup> - Cable 1 - Cable 2	2028-29 to 2031-32 2031-32 to 2035-36
Preparatory Activities Required	QNI Medium & Large	2030s
	Central to Southern QLD	Early-2030s
	Reinforcing Sydney, Newcastle and Wollongong Supply	2026-27 to 2032-33
	Gladstone Grid Reinforcement	2030s
	New England REZ Network Expansion <sup>3</sup>	2030s
	North West NSW Network Expansion <sup>4</sup>	2030s
Future ISP Projects	Far North QLD REZ	2030s
	South East SA REZ	2030s
	Mid North SA REZ	2030s

<sup>1</sup> Estimated practical completion including any subsequent testing - projects may be delivered earlie

2040

2020

<sup>2</sup> Decision rules may affect timing

<sup>3</sup> May be accelerated by gover

<sup>4</sup> Not shown on map. AEMO requires that preliminary engineering designs be completed by 30 June 2021