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:

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 grid and service capabilities, to ensure the power system can reliably meet demand at all times.



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.



	Indicative timing	2020
Strength Remediation	2021-22	ľ
	2021-22	
toria Transmission bject	2025-26	
	2022-23	T T
gyConnect	2024-25	
	2025-26	
st Orana REZ n Link	Mid-2020s	
	2027-28	
k²	2028-29 to 2031-32 2031-32 to 2035-36	
n & Large	2030s	T T
outhern QLD	Early-2030s	
Sydney, Newcastle gong Supply	2026-27 to 2032-33	
Grid Reinforcement	2030s	
nd REZ Network	2030s	
NSW Network	2030s	
LD REZ	2030s	
SA REZ	2030s	
A REZ	2030s	
bsequent testing - projects may b	e delivered earlier	2040

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