RENEWABLE ENERGY ZONES

FPRG - August 2017

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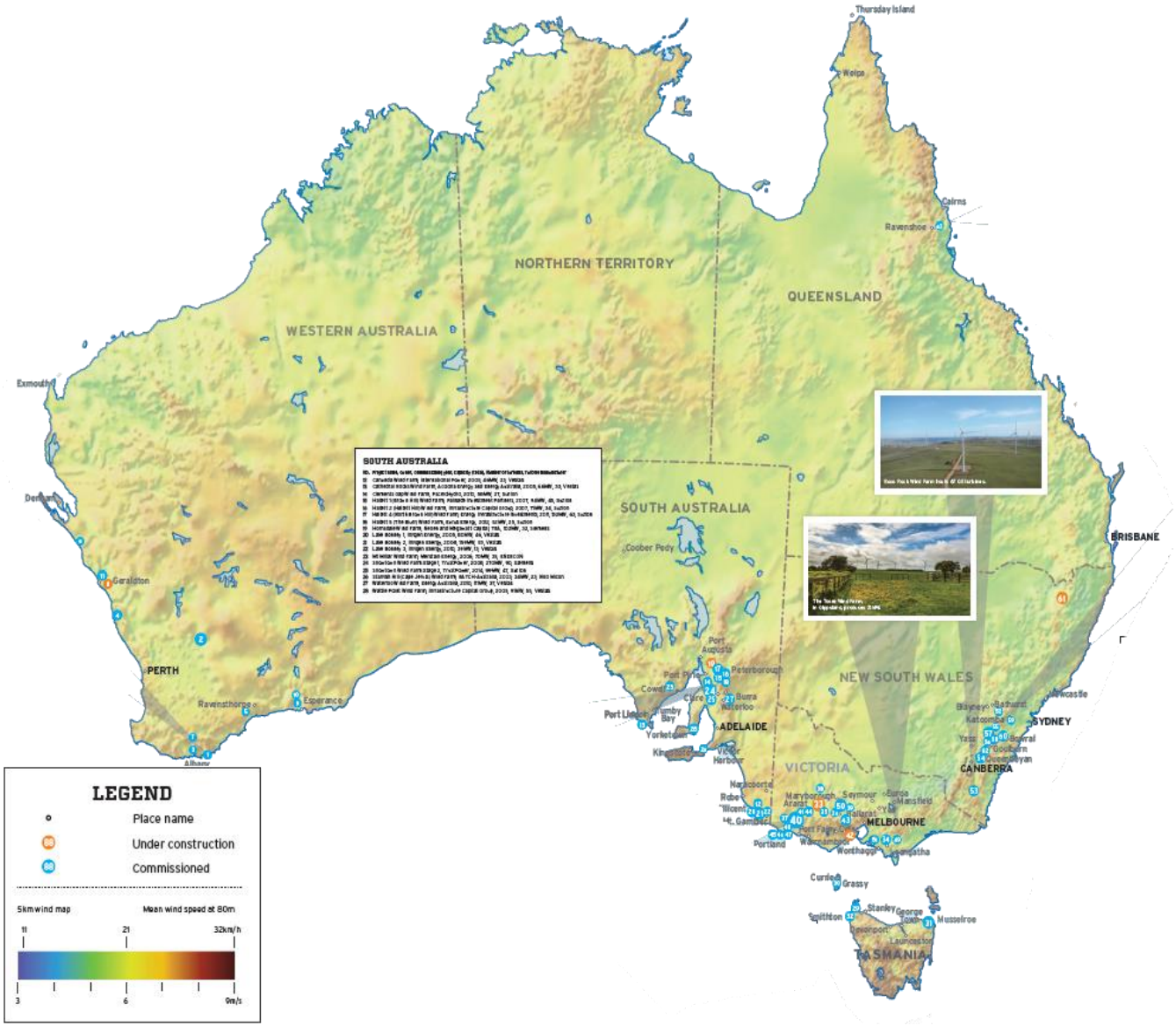
AEMO
AUSTRALIAN ENERGY MARKET OPERATOR

FINKEL RECOMMENDATION 5.1

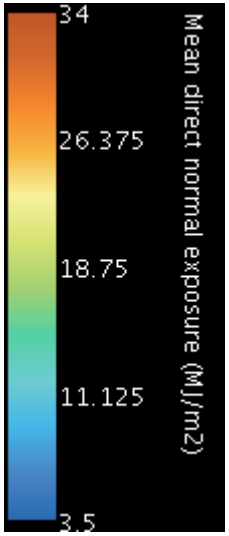
By **mid-2018**, the Australian Energy Market Operator, **supported by transmission network service providers and relevant stakeholders**, should develop an integrated grid plan to facilitate the **efficient development and connection of renewable energy zones** across the National Electricity Market

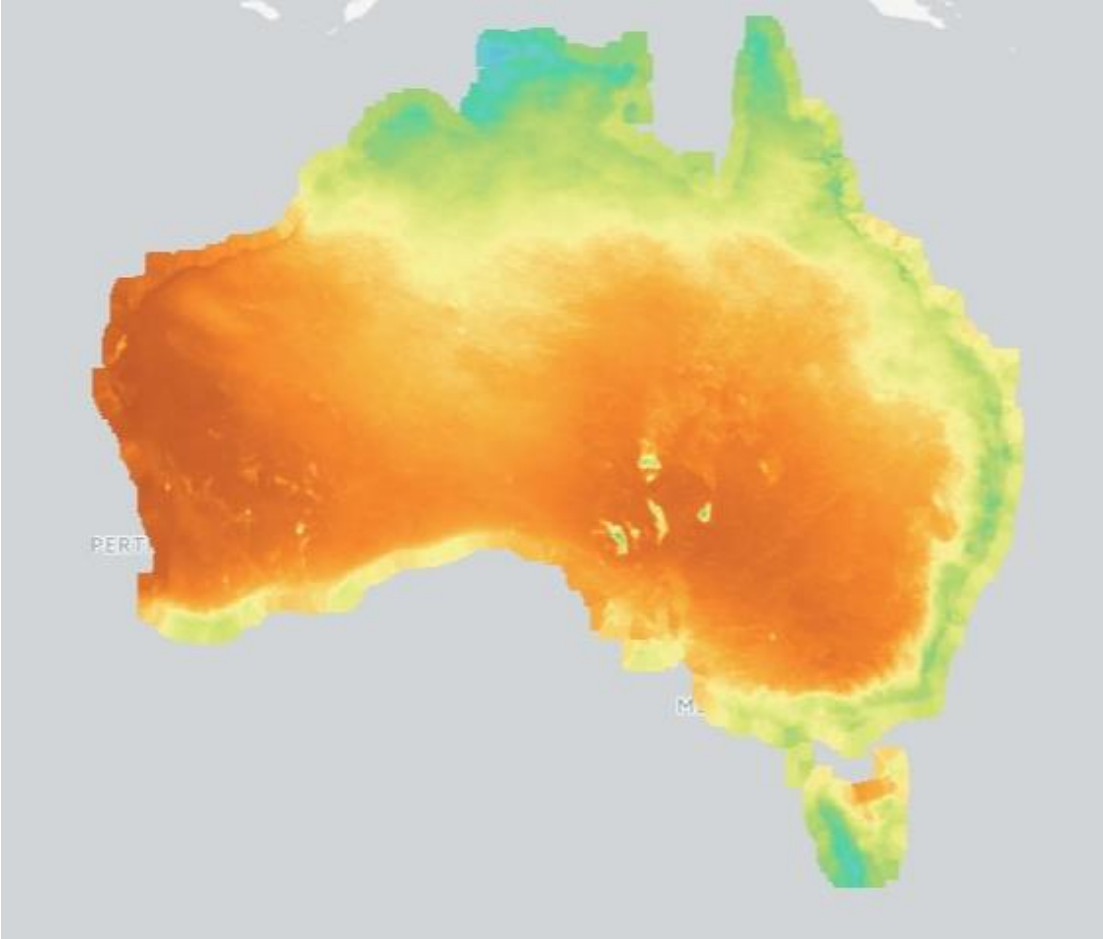
RENEWABLE ENERGY RESOURCES



Source: ecogeneration / Sustainable Energy Research Analytics / Paragon Media

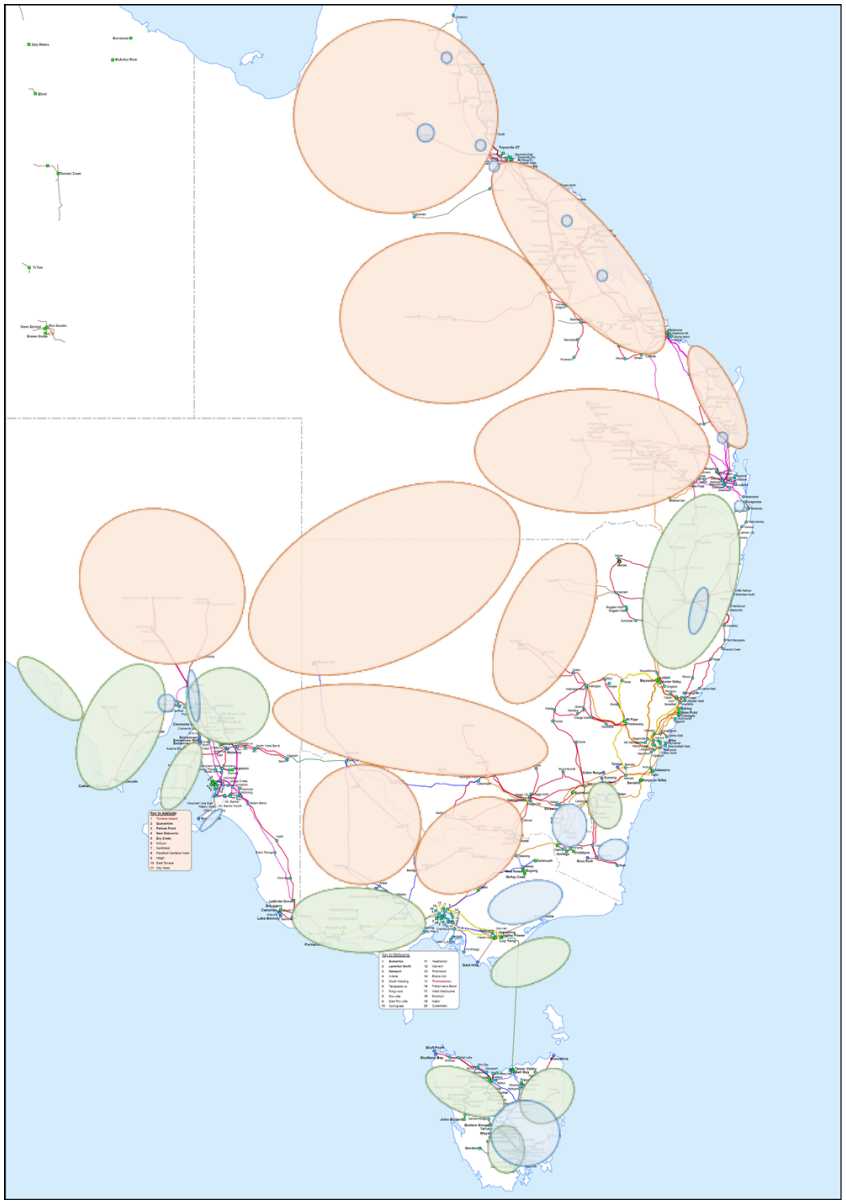
RENEWABLE ENERGY RESOURCES





Source: AREMI map – monthly climatology of direct normal exposure

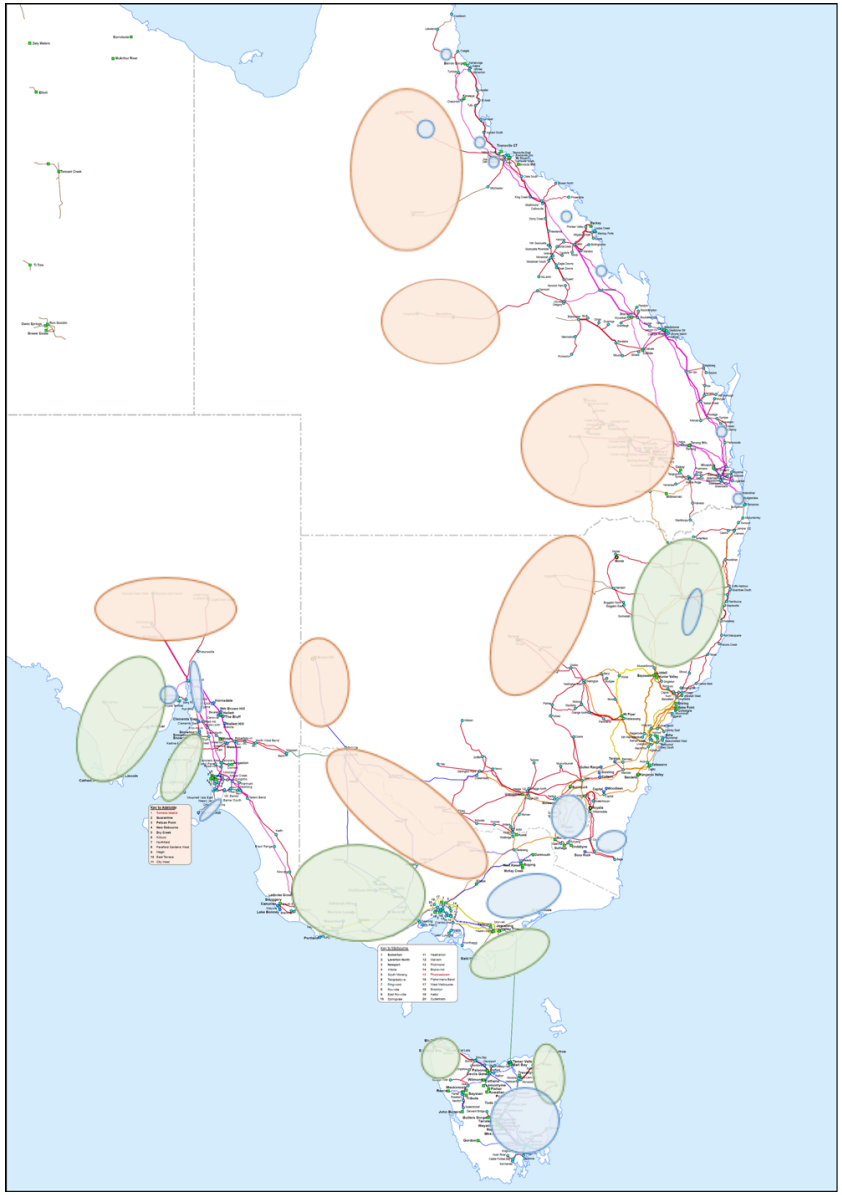
POTENTIAL RENEWABLE ENERGY ZONES



LEGEND

- Predominantly wind REZ
- Predominantly solar REZ
- Predominantly Hydro REZ

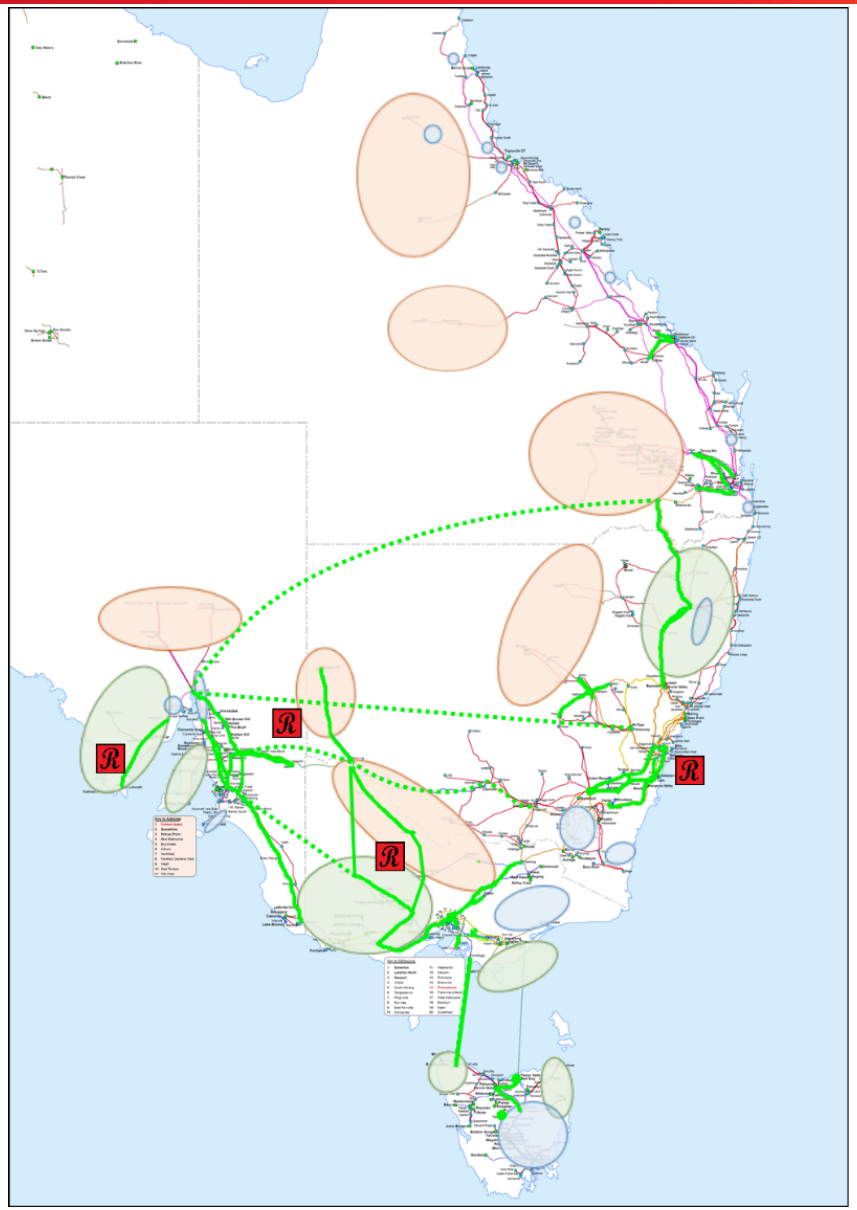
INDICATIVE CANDIDATES DEVELOPMENT



LEGEND

- Predominantly wind REZ
- Predominantly solar REZ
- Predominantly Hydro REZ

INDICATIVE REZ & NETWORK AUGMENTATIONS



LEGEND

- Predominantly wind REZ
- Predominantly solar REZ
- Predominantly Hydro REZ
- NTNDP Limitation
- SA Energy Transformation
- Current RIT-T

NES PROGRAM OVERVIEW

- June-July 2017 –one on one with NSPs –information gathering, needs assessments, potential options
- Aug-Sept 2017 –joint planning on prospective renewable zones, assessment of network requirements/augmentations
- Oct-Nov 2017 –finalise renewable zone recommendations, network assessments, high level market modelling
- Dec 2017 –prepare preliminary NGP under NTNDP
- Dec 2017-Feb 2018–initial broad consultation on proposals
- Jan-Apr 2018 –detailed market modelling of options
- Mar-Apr 2018 –continued consultation, integration, and finalisation of initial planning recommendations
- May-June 2018 –prepare and finalise advice

MEETING OVERVIEW

Activity	Start Due	Objectives
September PRG	27 Sep	Review of long terms (LTs) and joint planning outcomes on renewable energy zones. Gain views on options.
October PRG	25 Oct	Review generation outlook, understanding the challenges to be overcome with intermittency. Gain input on potential solutions.
November PRG	15 Nov	Review initial network analysis results, discuss non-network options. Gain appreciation of what else can be done.
December PRG	7 Dec	Review NTNDP outcomes, discuss next steps and key challenges.