

The Integrated System Plan

C4NET – Reinventing Whole-of-System Planning

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The Integrated System Plan is a roadmap for the energy transition



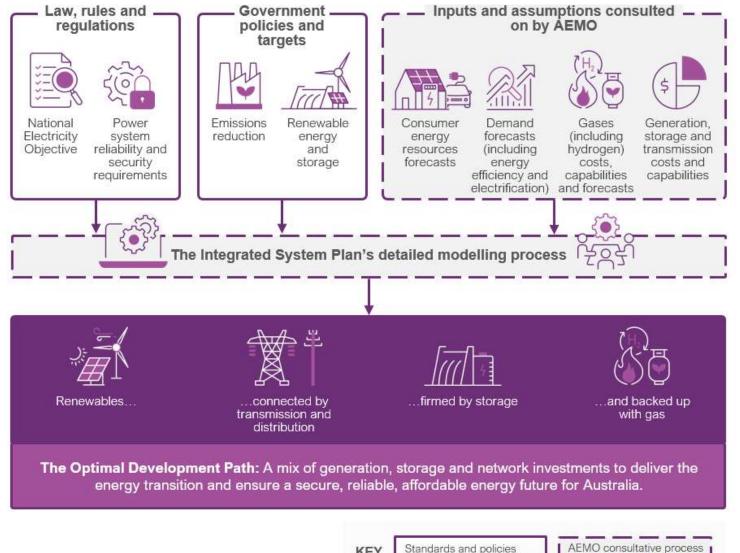




- A roadmap for the National Electricity Market (NEM) energy transition.
- Optimal development path for reaching net zero by 2050.
- Least-cost path for transition within Commonwealth and State policies.
- Provides expert information for a range of stakeholders.
- Serves regulatory purpose of identifying 'actionable' projects which should progress as urgently as possible.

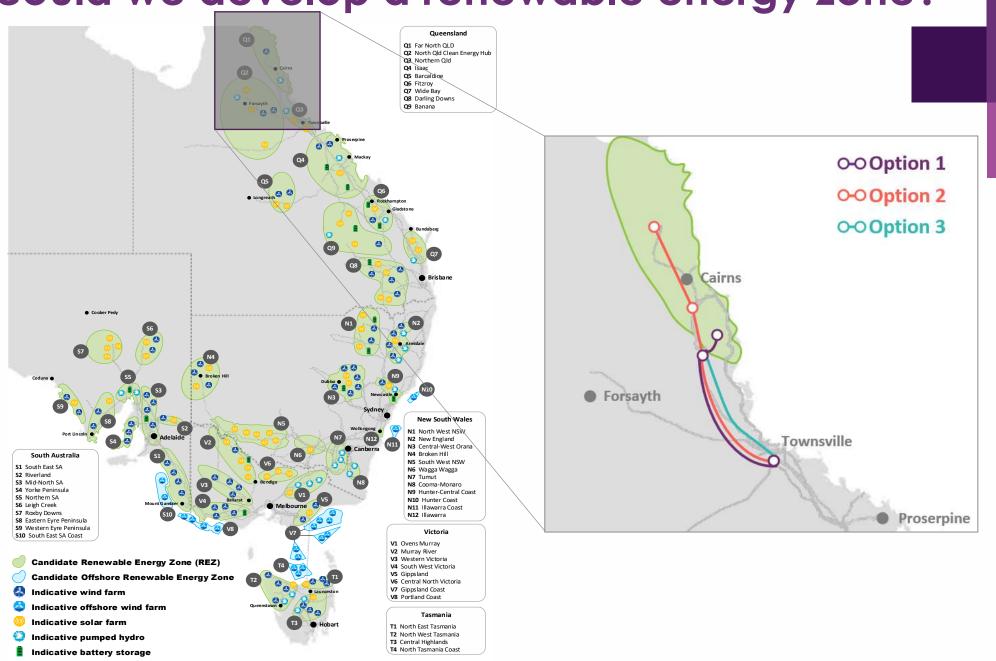
The ISP takes standards, policies and consulted-on inputs and assumptions to model the optimal development path





We've been on a mission for transparency **Existing Gen** Data Summary WACC Demand Input Renewable Pipeline Summary Gas reserves Gas production Scenarios Gas expansion Gas **Energy Zones** transmission **New Entrant** candidates and resources costs infrastructure tariffs Data Summar Fuel Price Scenario and Summary Regional Build **REZ settings** Cost Summary Capacity Gas and Liauid **Build** cost **Summary Factors** fuel price Gas system data properties Value of Consumer Risk Regional Cos ead times and consumer Refurbishment Fixed OPEX **Preferences** project life reliability Factors Generator Energy Rooftop PV DSP Variable OPEX Regional Build Retirement Consumption Emissions Cost Generator Inputs, technical **Embedded** Maximum Storage **Demand** Connection cost PVNSG Heat rates energy Marginal Loss and financial properties Demand storages Factors **Assumptions** settings Aggregated Coal and **Gross State** Build limits Auxiliary Electric Vehicles energy Biomass price Product & Scenarios storages Hydrogen and Energy CCGT Unit Electrification other green Complex Heat Efficiency and Down gas ST model **Policy** settings properties GPG Minimur Carbon Stable Leve Renewable Ramp Rates Policy Targets **Budgets** Interconnector Generator Generator Maximum Seasonal and **Augmentation** Firm Capacity Reliability Interconnector capacity reliability ratings Capability options Settings transmission Hydro Scheme Transmission settings Inflows component settings Generation costs Hydro Climate Reserves Maintenance **Proportioning** Interconnector limits Factor factors representation

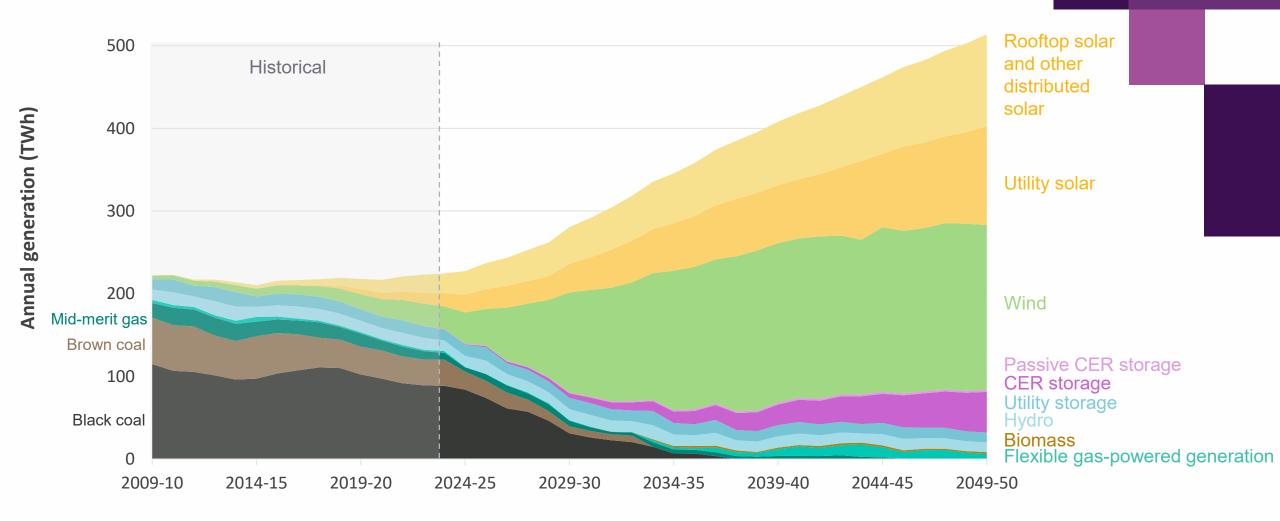
How could we develop a renewable energy zone?





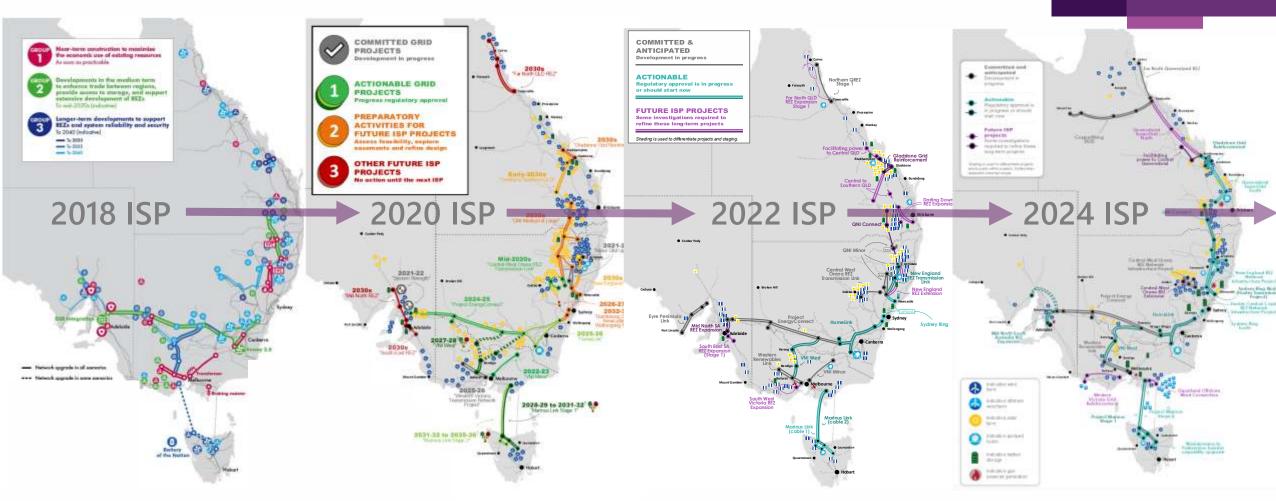
The transition is well underway, with electricity generation shifting to low emissions and renewable energy





What's next for the ISP?







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