



# 1414 Degrees Aurora Solar Energy Project

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September 2020 development update

# Aurora Project: high margin Hybrid Power Station

Firmed renewable power supply on major grid lines at Port Augusta, South Australia

14D owned and operated

Development approval (DA) in place:

- 70MWac Solar PV generation
- 150MW Concentrated Solar Plant (CSP)

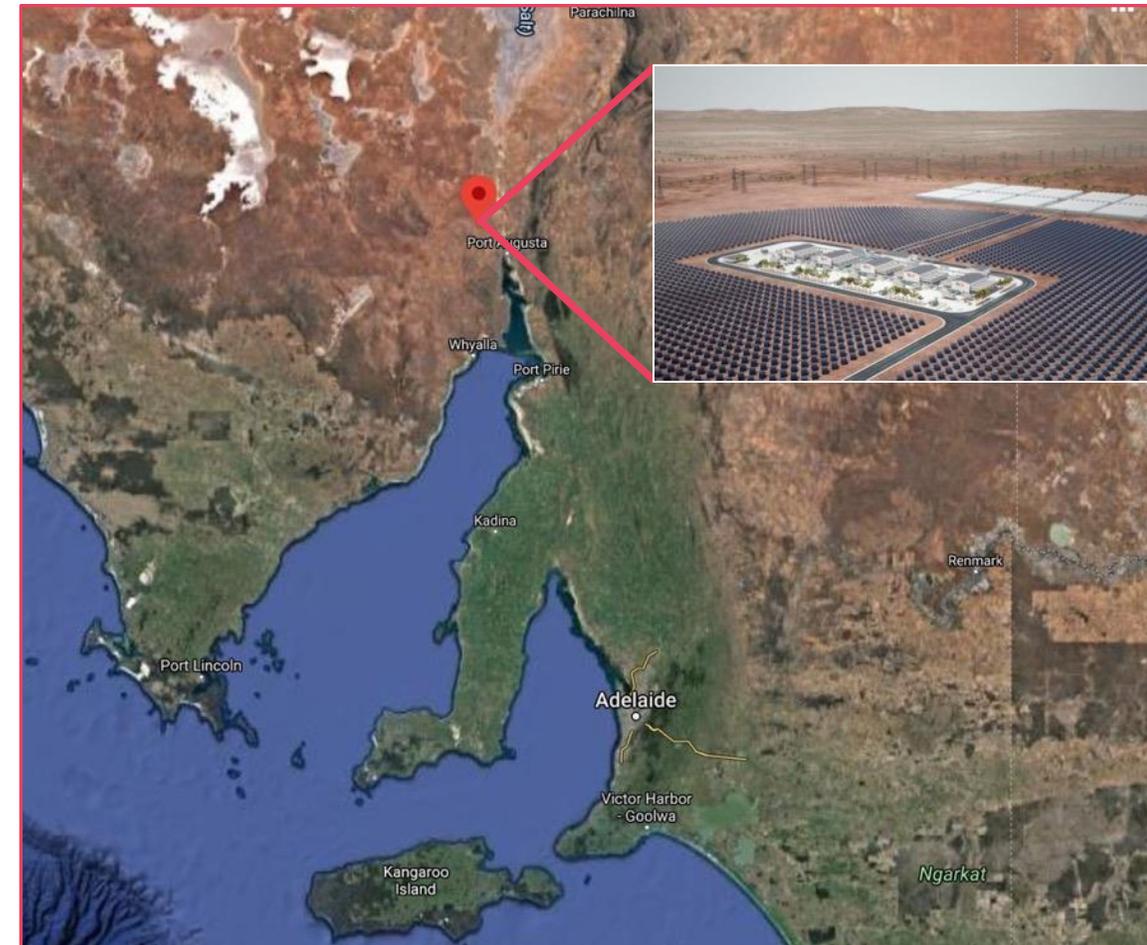
Staged approach to project

- Stage 1 – consists of PV + BESS\*
- Stage 2 – addition of long duration TESS# storage
- Further stages with additional PV and other technologies such as CSP

Carefully selected location with high irradiance, close grid connections and direct access to a skilled labour force

\*Battery energy storage system

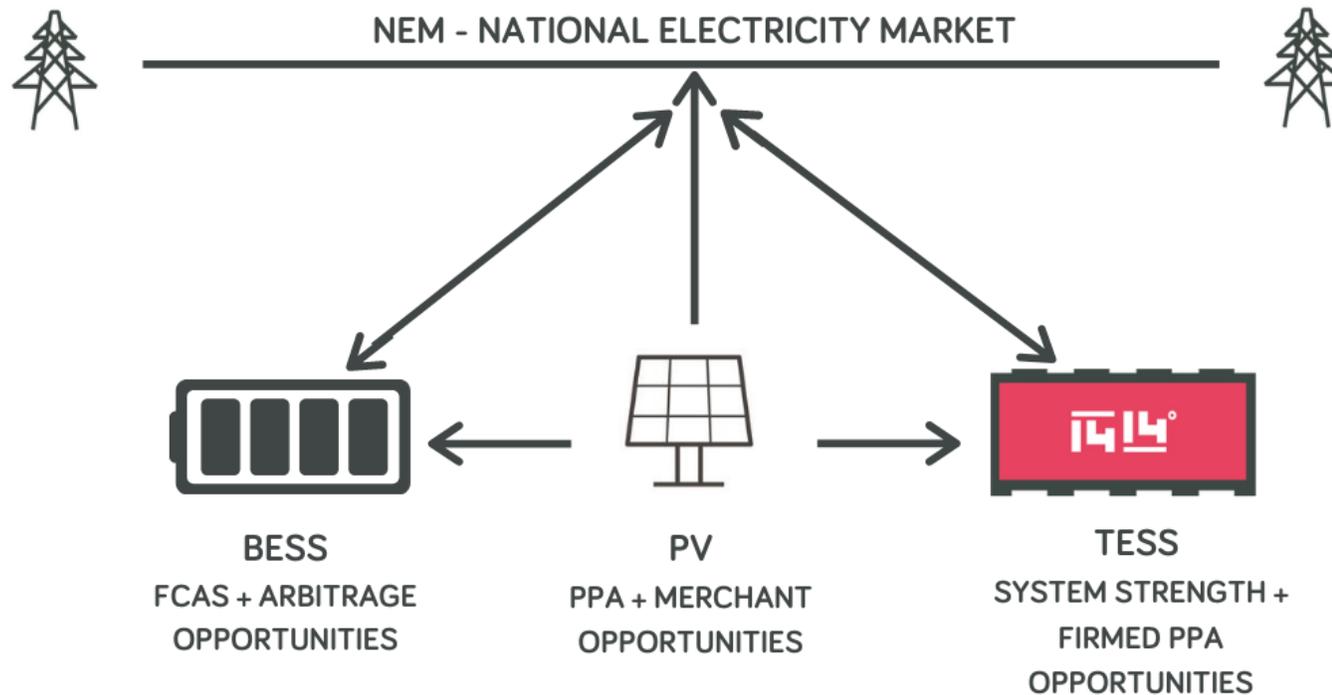
# Thermal energy storage system



# Aurora Project – modelling revenues

The National Electricity Market connected hybrid power station with solar PV, battery and TESS will attract multiple sources of revenue across wholesale energy, frequency control and ancillary services (FCAS) markets

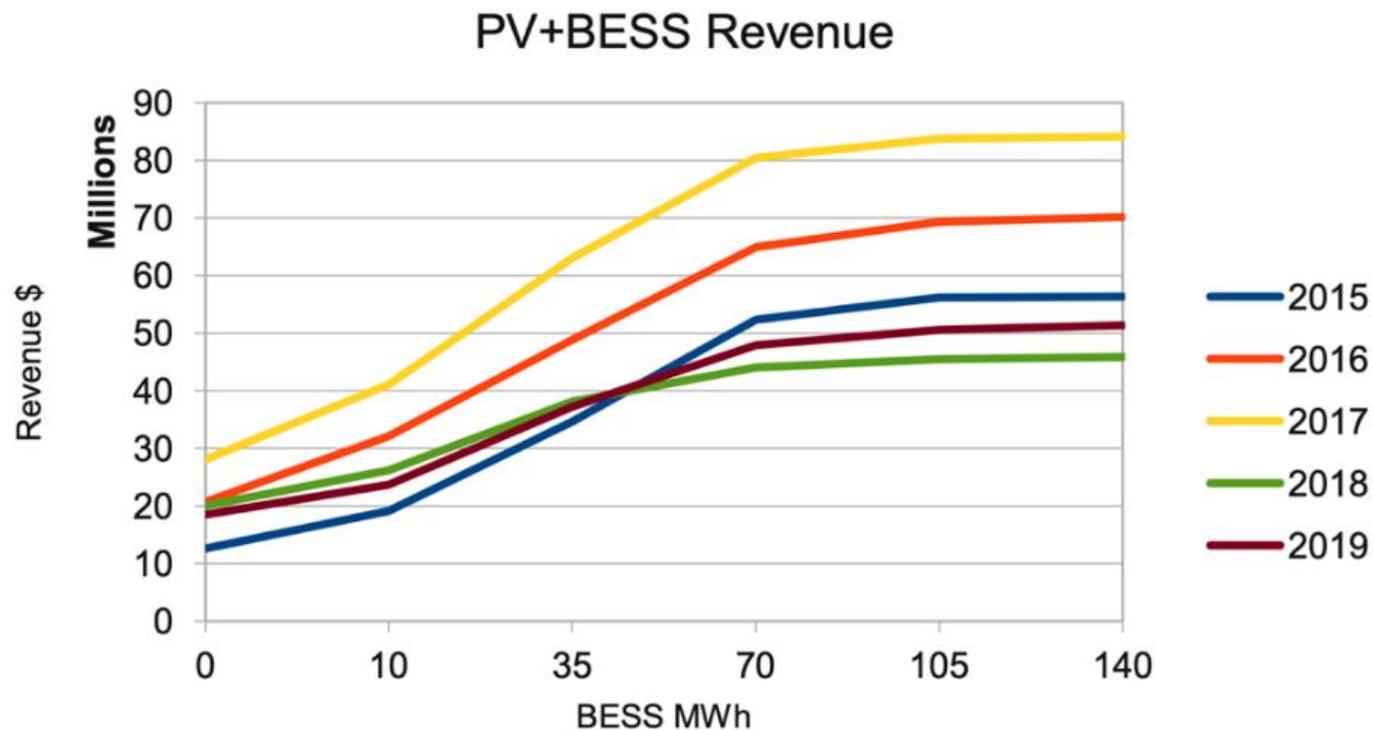
Realising this potential and attracting capital financing requires consultants to model forward revenues and undertake engineering design for transmission and NEM connection.



## Historical modelling shows revenue potential

ITP Renewables modelled a hybrid solar power plant on the Aurora Project to maximise National Electricity Market (NEM) wholesale and ancillary services (FCAS) revenue. Their simulation of the past five years showed annual revenues ranging from \$44m to \$80m based on full share of FCAS market. Future revenue depends on capturing a proportion of this growth market, sales of energy on the NEM and through retailers. The regulatory market is adjusting and is expected to create further revenues for energy supply security.

[Click here for full announcement](#)



*Simulated system of annual revenue for a 70MW PV plant with battery storage size ranging from zero up to 140MWh under a range of historical NEM market data for South Australia.*

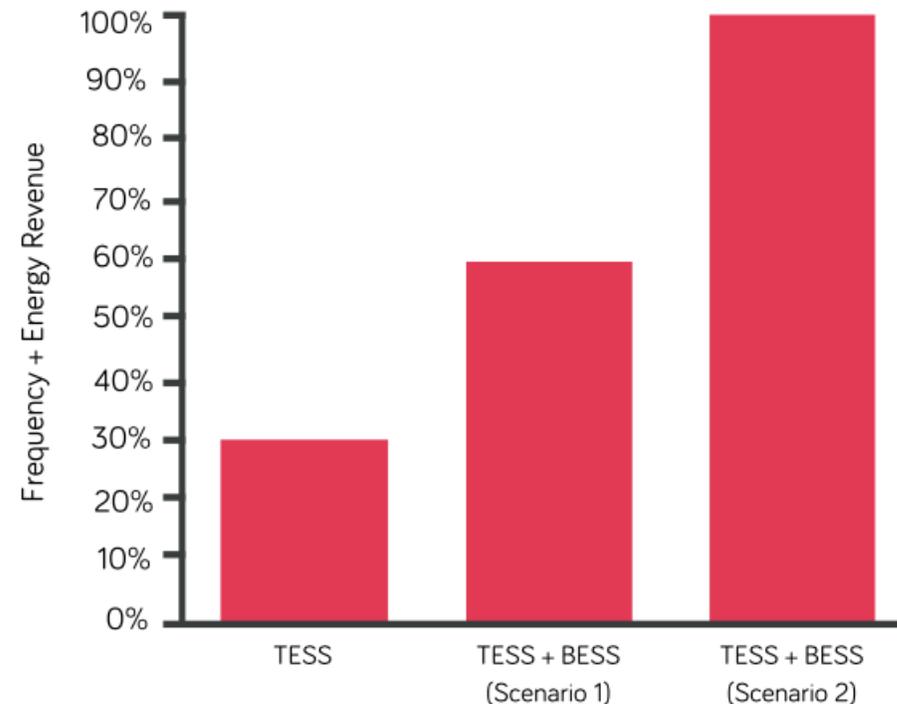
*Source: ITP Renewables*

# Historical modelling confirms revenue potential for TESS + BESS

ITP Renewables modelled a TESS and BESS hybrid solar power plant on the Aurora Project to maximise National Electricity Market (NEM) wholesale and ancillary services (FCAS) revenue. Their simulation of the past five years showed that a combination of TESS and BESS storage increases potential revenue generation from the site through more flexibility of frequency response. Future revenue depends on capturing a proportion of this growth market, sales of energy on the NEM and through retailers. The regulatory market is adjusting and is expected to create further revenues for energy supply security.

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TESS + BESS revenue scenarios



# Aurora Project – development plan timeline

## Capital Investment

- Stage 1: ~\$130 - \$150m AUD

## Project readiness

- 40-year project lease in place
- Development approved
- Heritage Agreement in place
- Native Vegetation Clearance Permit granted
- Transmission connection process underway

## Revenues

- NEM energy trading and PPA revenue generation
- Negotiation underway with retailer for 50GWh PPA from PV
- BESS can generate substantial revenue from FCAS and arbitrage markets
- TESS can generate revenues from FCAS and synchronous energy supply



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