



SEN
Sustainable Energy Now

DID YOU KNOW?

Renewable Energy & Jobs

DID YOU KNOW THAT THE RENEWABLE ENERGY SECTOR STANDS TO PRODUCE MORE JOBS THAN FOSSIL FUEL EXTRACTION?



How do we know?

SEN has modelled the new jobs resulting from the transition to Renewable Energy (RE) within the South West Interconnected System (SWIS) system. The work is premised on reaching 90% of electricity provided by clean energy in the SWIS by 2030 (including **'behind the meter'** rooftop PV).

Our energy modelling was developed using SEN's published and open source system modelling tools using a cost optimised blend of RE and storage technologies, with limited utilization of fossil gas.

The jobs referred to are direct jobs only. New jobs create indirect and induced jobs through multiplier effects, but these have not been taken into account in these results.

The resources industry tends to assume the creation of indirect and induced jobs in its reporting so this important factor needs to be considered when making comparisons with other jobs reporting.



Key Findings

Our modelled transition to 90% RE by 2030 determined the following direct jobs:

- 55,100 job-years (2020-30) with an average of 5,000 jobs per annum;
- 8,600 FTE jobs in 2030 of which approximately 2,700 would be ongoing operations and maintenance jobs;
- Approximately 50-60% of the jobs created can be in regional areas.

Analysis of independent industry information on jobs created from the installation of new RE shows that two major RE job categories will be created, through:

- Repeat construction work for anything up to 24 months per project, followed by;
- Ongoing long-term operations and maintenance work.



Key Findings

The majority of jobs considered in the SEN Jobs Report are related to new wind and solar energy as well as pumped hydro and storage.

All of them create significant new jobs:

- Wind energy construction jobs of 280 FTE per new 100 MW.
- Wind energy operations and maintenance jobs of 22 FTE per new 100 MW.
- Solar rooftop PV construction jobs of 580 FTE per new 100 MW.
- Solar rooftop PV operations and maintenance jobs of 16 FTE per new 100 MW.
- Solar utility PV construction jobs of 230 FTE per new 100 MW.
- Solar utility PV operations and maintenance jobs of 11 FTE per new 100 MW.