

CEFC

CLEAN ENERGY FINANCE CORPORATION



Large-scale Solar Finance Program



SOLAR COUNCIL & ENERGY STORAGE
COUNCIL MEMBER UPDATES

Simon Brooker
Executive Director

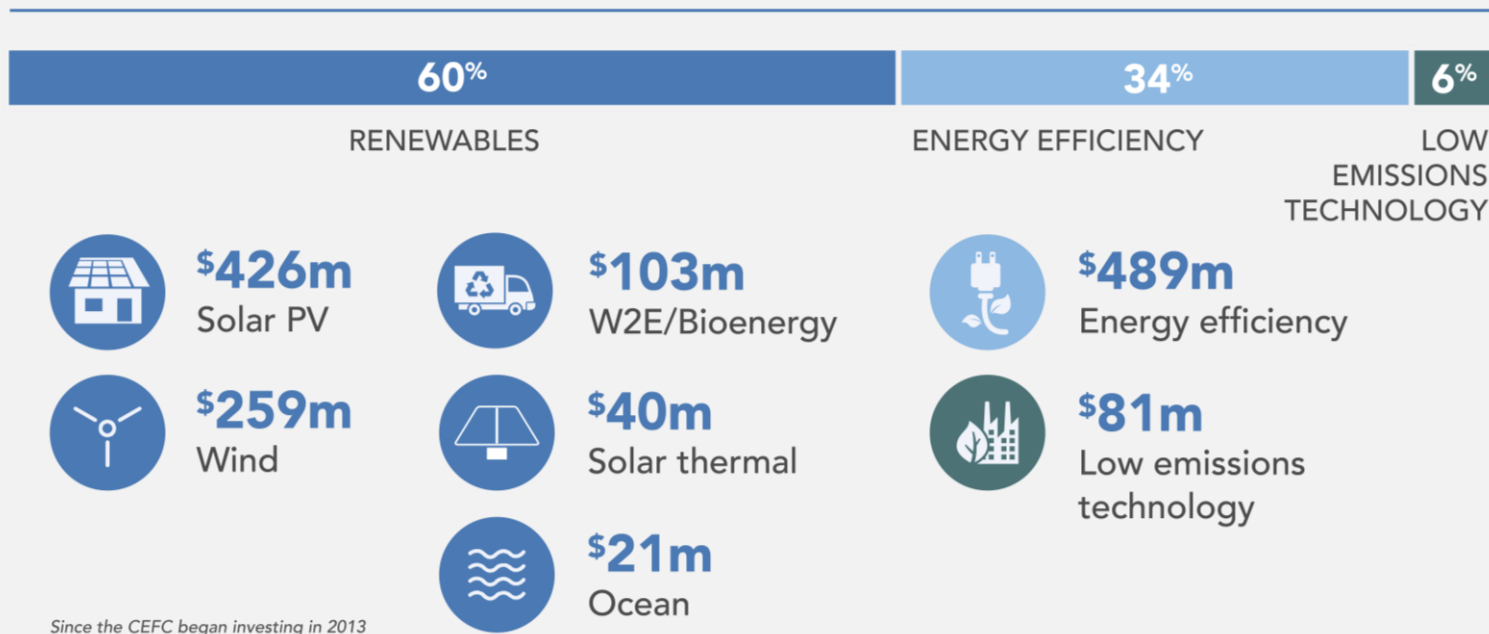
DECEMBER 2015

About the Clean Energy Finance Corporation

- Independent, Australian Government institution that operates like a traditional financier
- Private sector expertise with public purpose - Finance for energy efficiency, low-emissions and renewable energy projects and programs across the economy
- Access to \$2 billion a year over 5 years
- Expects a return on investment
- Can work on projects that are smaller, more complex or new to the Australian market
- Operates as a co-financier to encourage greater bank participation in the sector



We made a diverse range of investment commitments into clean energy



Solar and storage at remote copper mine



Debt financing for solar and storage at remote copper mine

Action

- Installation of 34,000 solar PV array integrated with battery storage and existing diesel generator.

Impact

- Expected to offset nearly half of mine's daytime electricity consumption.
- Demonstrates potential for remote mines to integrate renewables.
- Reduces reliance on diesel fuel and exposure to oil price volatility.

CEFC COMMITMENT
Up to \$15 million

PROJECT VALUE
\$40 million

EXPECTED CO₂ REDUCTION
12,000 t/CO₂-e annually

MW OF RENEWABLES
**10.6MW solar PV
6MW battery storage**



Financing for off-grid solar PV and storage



Epuron solar: Uterne and TKLN

Action

- Finance for mix of fixed and single axis tracking solar PV arrays and energy storage
- Hybrid corporate loan and project finance structure - too complex / small to appeal to the commercial banks.

Impact

- Replaces gas & diesel generation in remote Australia
- Demonstrates the potential for this type of finance to be used in similar, smaller and complex but scalable portfolios of renewable energy projects.

CEFC COMMITMENT

Up to \$17.7m

TOTAL PROJECT VALUE

~\$27m

NEW RENEWABLE CAPACITY

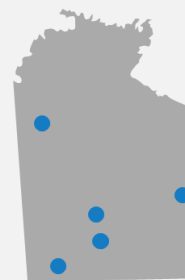
6.9 MW

LOCATION

Northern Territory

SECTOR

Utilities



Remote solar
projects across
the NT

World-leading application of solar thermal technology



Funding solar thermal to grow produce

- Sundrop Farms is pioneering innovative use of solar thermal for heat, electricity, and desalinated water to grow vegetables in greenhouses
- CEFC underwrote up to A\$40 million
- Sundrop Farms has now entered into a partnership with global investment firm KKR and is constructing a state-of-the-art glasshouse in Port Augusta.

CEFC COMMITMENT

CEFC underwrote up to A\$40 million in senior debt finance, project then successfully secured commercial bank debt package and private equity capital



Large-scale grid-connected solar



Debt finance for 56 MW Moree Solar Farm

Action

- CEFC underwrote the senior debt
- CEFC provided finance even with merchant power price risk

Impact

- Investment supports innovative on-grid, large scale solar with single axis tracking to increase performance

CEFC COMMITMENT

Up to \$46 million

TOTAL PROJECT VALUE

Up to \$166 million

NEW RENEWABLE CAPACITY

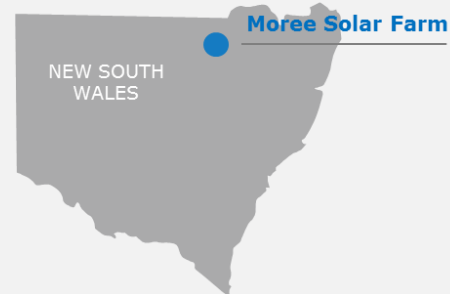
56 MW

LOCATION

Moree, NSW

SECTOR

Utilities



CEFC and the City of Melbourne accelerate sustainability initiatives



Clean energy initiatives to reach zero net emissions by 2020

- The CEFC has lent \$30m towards more efficient lighting, increased funding for EUA building upgrades, 300kW of rooftop solar and other initiatives identified in the emission reduction plan
- Lighting upgrades expected to save about \$1 million annually on electricity
- Increased take up of 300kW of solar.
- Combined annual carbon emissions abatement equivalent to planting more than 13,000 trees

CEFC COMMITMENT
\$30m

TECHNOLOGY
**Solar, LED lighting,
more efficient
buildings**



CEFC \$250 million large-scale solar financing program

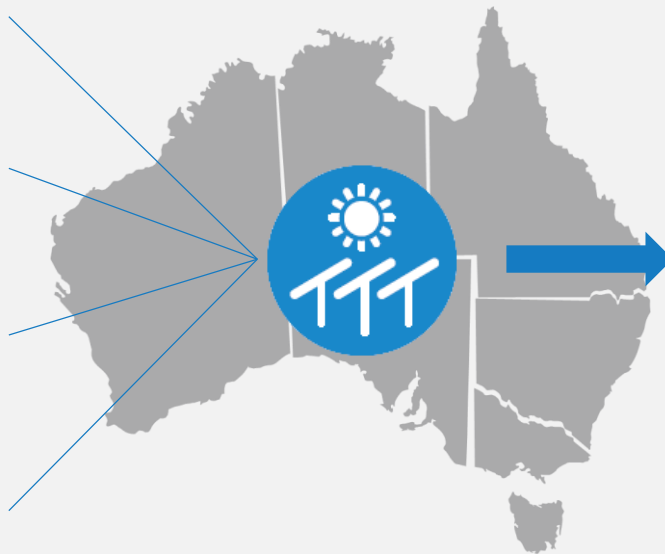
To date, our single largest debt financing commitment to large-scale solar

Loans of at least \$15m

Projects of 10MW of more

**Fixed-rate and longer-dated
senior debt**

**Complements ARENA's
\$100m program**



INTENDED OUTCOMES

1. Substantially increase installed large-scale solar capacity in Australia
2. Help develop the Australian supply-chain for large-scale solar
3. Bring large-scale solar down the cost curve

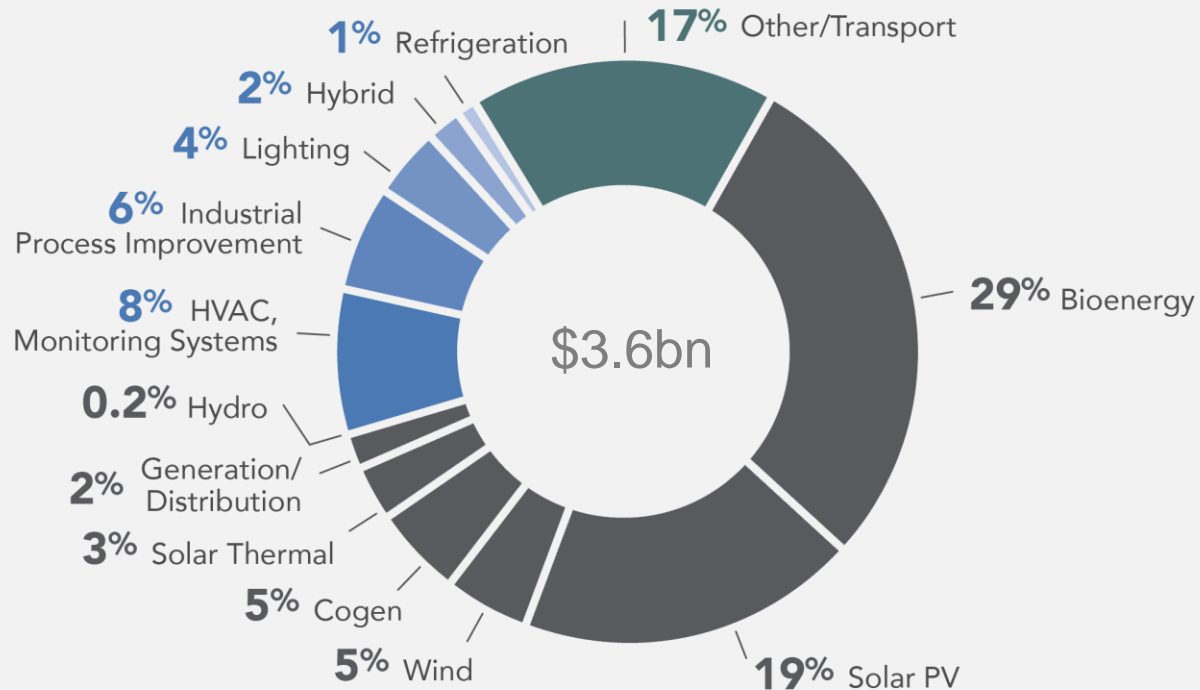
Results of the program so far

- Over **50 projects** across Australia
- Projects range in size from **15MW to 200MW**
- Total capacity of proposed projects: **~2,500MW**
 - Queensland (the largest number of projects, for more than 1 GW)
 - New South Wales (more than 700MW)
 - South Australia (more than 200MW)
 - Western Australia (more than 150MW)
 - Victoria (around 140 MW)



The program is still accepting applications.

Pipeline of opportunities



CEFC

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