

CEFC

CLEAN ENERGY FINANCE CORPORATION



EUAA National Conference 2015



*The role of the CEFC in moving towards
Australia's renewable energy future*

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Chief Investment Officer

The role of the CEFC in moving towards Australia's renewable energy future

1. About the CEFC
2. The cost of renewable energy
3. Opportunities for large energy consumers
5. Case studies



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
- Operate as a co-financer to encourage greater bank participation in the sector



About the CEFC – Performance highlights



CEFC HIGHLIGHTS

\$1.4b

**TOTAL CEFC
COMMITMENTS**

\$3.5b

**TOTAL
PROJECT VALUE**

55

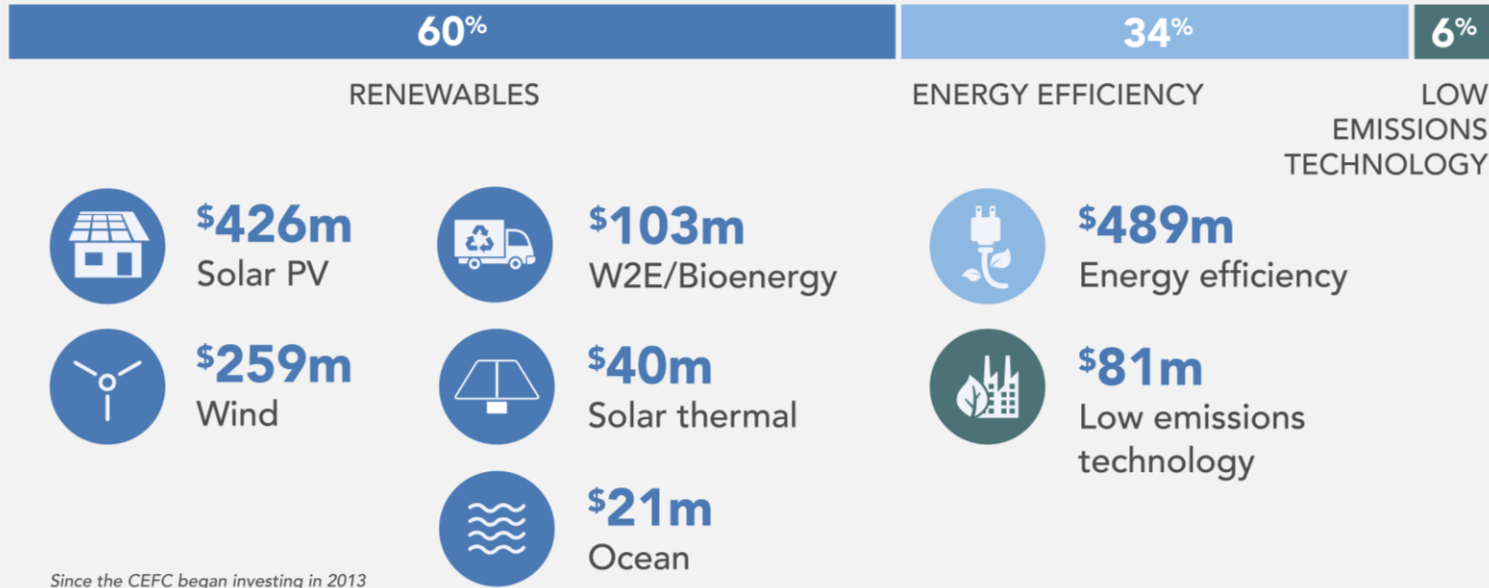
**DIRECT
INVESTMENTS**

34

**PROJECTS
CO-FINANCED**

Since the CEFC began investing in 2013

About the CEFC – Portfolio diversification



Since the CEFC began investing in 2013

About the CEFC – Extending our market reach



ENERGY EFFICIENCY EQUIPMENT, VEHICLES, SOLAR AND STORAGE

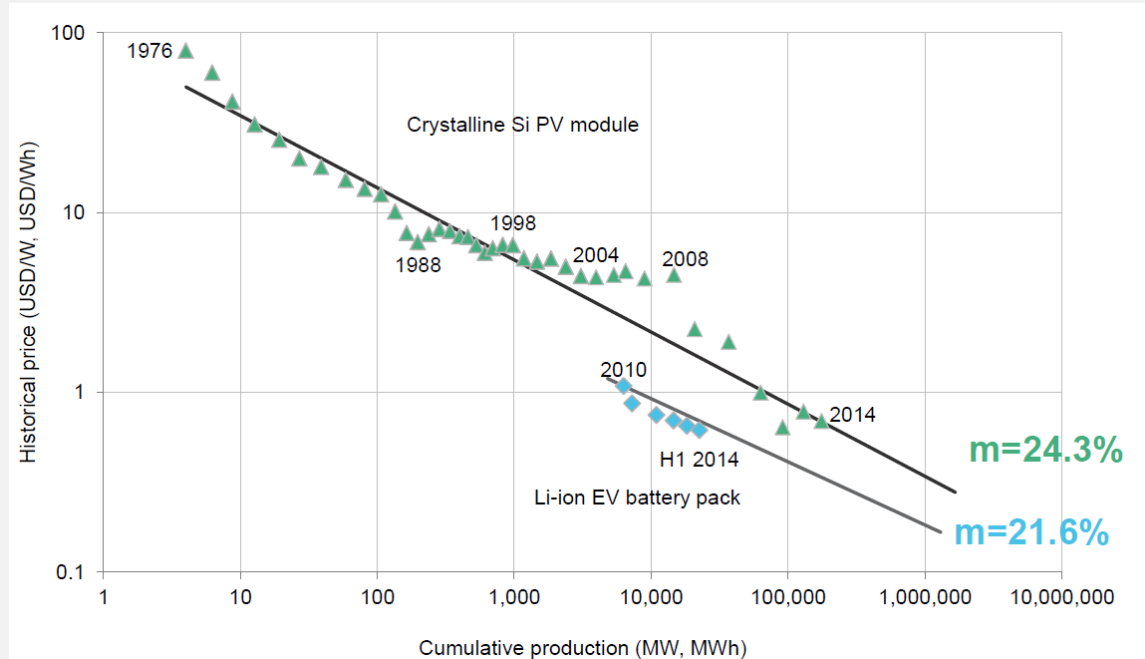
Indirect CEFC financing programs



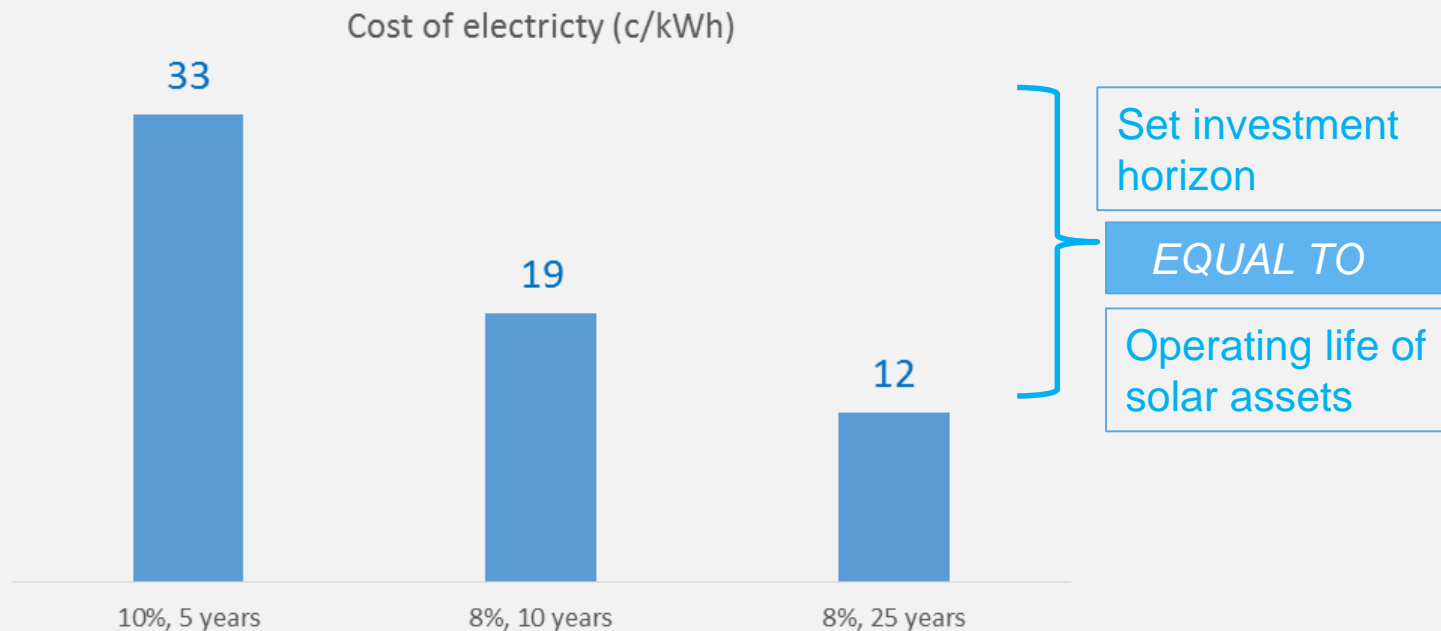
LARGER LOANS / MAJOR PROJECTS

Direct CEFC investments

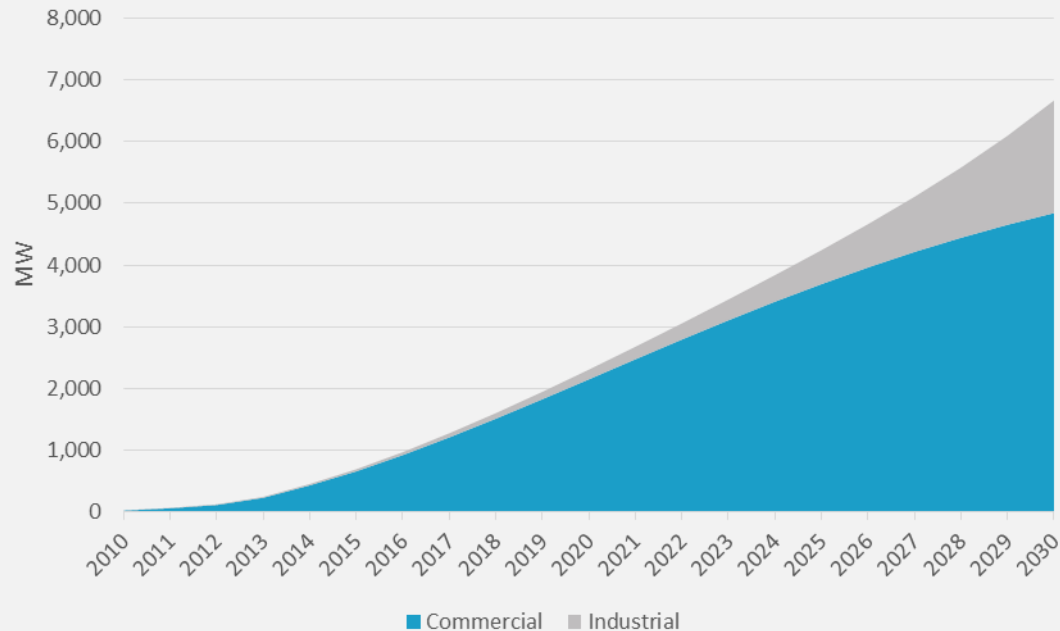
Has the cost of solar fallen enough for C&I Consumers?



The answer depends on your investment horizon



Commercial & industrial solar - growth projections



Origin - Long-term finance for solar energy



Supporting solar-as-a-service business models

Action

- A 12-year \$100 million CEFC financing commitment to Origin Energy.

Impact

- Solar as a Service eliminates the need for business and residential customers to cover upfront solar PV system costs, while allowing them to enjoy the benefits of solar energy.

CEFC COMMITMENT
Up to \$100 million

TECHNOLOGY

Solar PV
Energy storage



Sandfire Resources – On site solar and battery power



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**



St. George Community Housing – Energy efficient building upgrades



Improving energy efficiency of community and social housing

Action

- Up to \$60 million in long-term senior debt to a program expected to build over 200 new energy efficient properties, and upgrade existing, older properties with energy efficient technologies

Impact

- Help accelerate the delivery of more sustainable and energy efficient designs in the built environment
- Improve affordability, climate resilience

CEFC COMMITMENT

Up to \$60 million

TECHNOLOGIES

**LED lighting
energy efficient
appliances,
smart meters,
solar, window
glazing,
insulation**



Better buildings

Tumut Shire
Council, NSW



Energy efficient lighting,
solar, heat pumps and air-
conditioning upgrades

Cut building grid
electricity costs by
66%

Reader's Digest
Building



Lighting and chiller
upgrades

Targeting lighting
and AC savings of
more than 60%

Cleaner vehicles

NAB



Light vehicles

Accelerate
business uptake of
low-emission
vehicles

Firstmac



Passenger vehicles,
courier and light
delivery vans and other
vehicles

Accelerate uptake
of low-emission
vehicles

Smarter energy

Turning
waste-into-
energy



Anaerobic digester
turning chicken manure
and other waste to
energy

Will provide 100% of
energy in non-peak
periods and save more
than \$250,000 per year

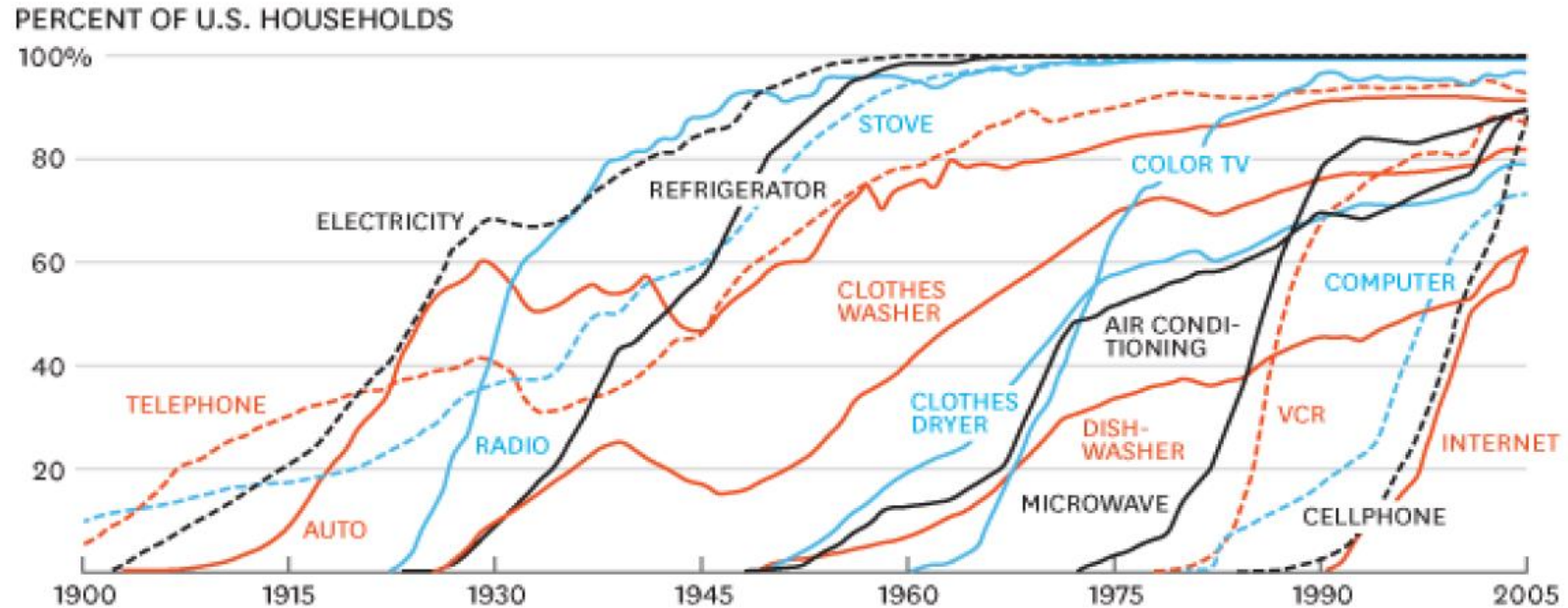
Smart upgrades
to refrigeration



New ammonia water-
cooled central plant and
smart controls

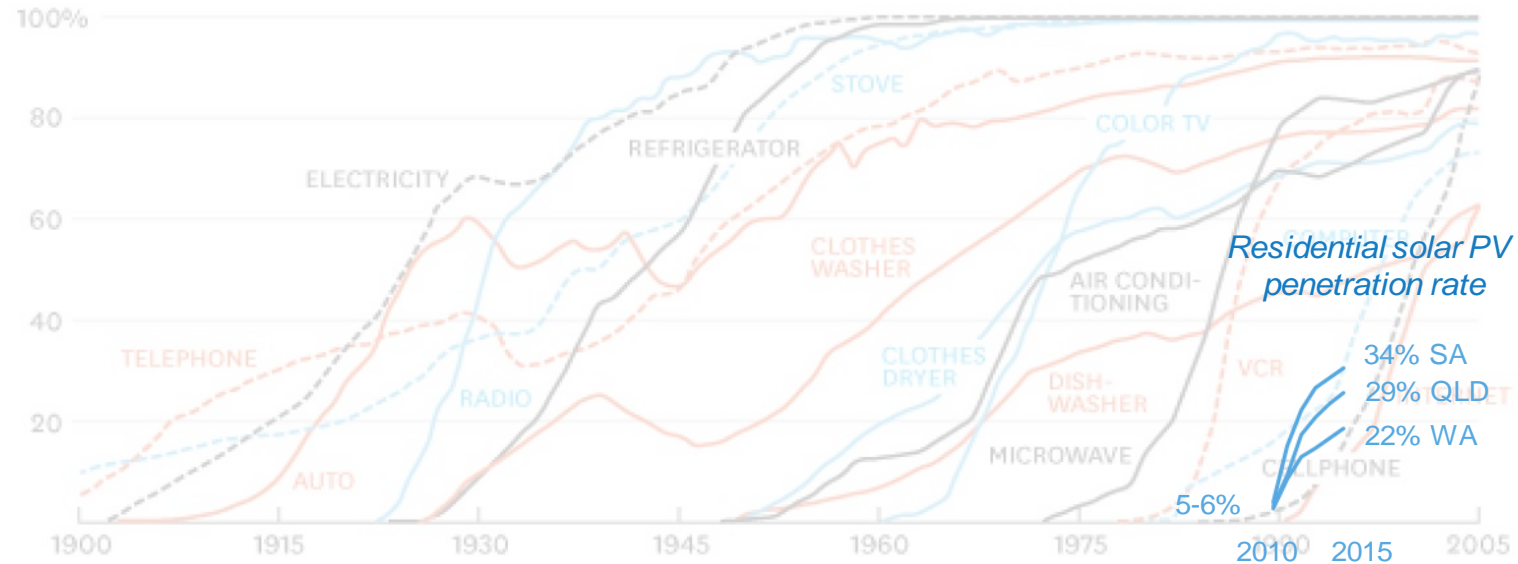
Energy savings of
between
25-40%

You can be a laggard in adopting these trends...



... Or you can be an early adopter

PERCENT OF U.S. HOUSEHOLDS



CEFC

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