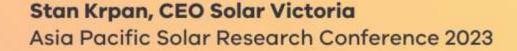
Supporting the household energy transition through solar and electrification









What we have achieved



Over 300,000

homes and businesses have benefited from a Solar Homes Program rebate









4,000

Jobs created

(Target = 5,500 in the life of the program)

2.2 million

tonnes of carbon emissions saved 1.7 **GW**

installed solar power capacity



Addressing risks

10,150

Solar Homes Program audits to date.

(Comprehensive, risk-based. Auditing 5% of installations)

Installation safety has improved dramatically.

2021-22: 0.2% unsafe 2022-23: 0.1% unsafe

2021-22: 0.2% unsafe 2022-23: 0.1% unsafe

Sampling 5% of rebated installations

2,109

WorkSafe site inspections

1,031

Energy Safe Victoria site inspections





128

solar retailers and installers suspended or cancelled from the program (since July 2019).

29 have been reinstated after meeting remediation requirements

There are still issues to address

Since Australian standard AS/NZ 5033:2021 there has been a decline in compliance levels and increase in rectifications.

Solar PV issues identified:

- · Inadequate installation.
- · Unprotected wiring and systems.
- · Inadequate documentation.
- · Poor protection from water and weather.

Battery installations issues identified include:

- · Inadequate wiring.
- · Inadequate earthing.
- · Badly installed isolation
- Lack of physical protection for the battery system.



Guidance and Technical Standards

We've worked with Energy Safe Victoria to roll out a compliance strategy which includes:

- · Publishing our audit checklists
- Developing technical sheets, webinars and auditors taking an educative approach

Targeted communications:

- Letters to high risk or poor performing retailers and installers
- · Referral of poor performing installers to ESV and VBA

Training Programs:

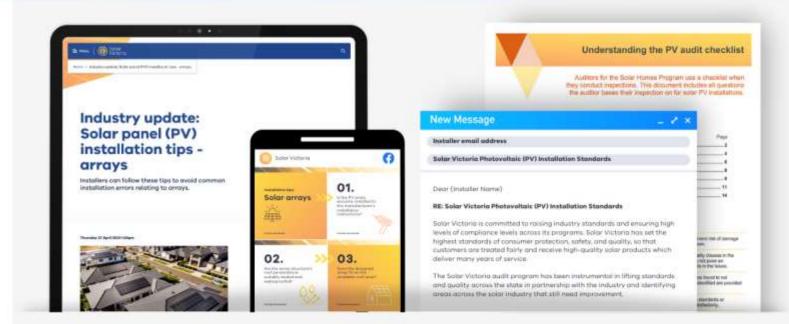
- · Technical mentoring program
- Mini-training modules

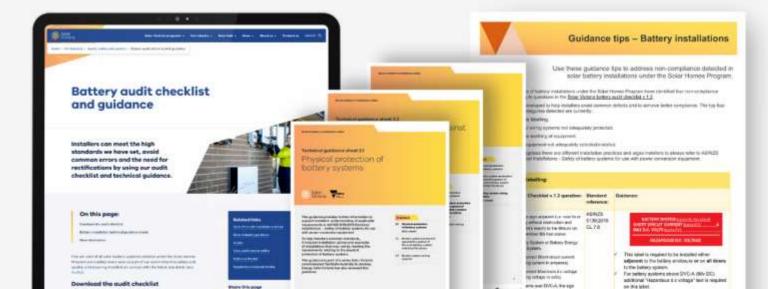
PV guidance

- · ESV joint guidance sheet
- · Top tips for PV installations (in dev)
- · Top 6 non conformances
- · Solar PV Guidance sheets x 3 (in dev)

Battery guidance

- Labelling
- · Battery Installation Guidance sheets x 3
- Next three Battery Guidance sheets in series (in dev)





The Regulatory Framework

Regulatory frameworks as enablers

We must understand the existing regulatory framework and ensure it's fit for purpose. We've taken an active interest in ensuring this is the case for solar and batteries.

This includes:

- Class of Licenced Electrical Inspector.
- Professional development for electricians.
- Our Battery safety project.



Partnerships

- Regulatory Partnerships
- Industry and Consumer Reference Group
- Compliance strategy





















Shaping the market

Solar Homes subsidises 85% of solar installs. We work closely with industry to lift standards and quality:

- Inverters are 'smart' and internet enabled since 2019.
- Products are approved to high standards.
- Mandatory safety training for all workers.



Notice to Market

Provides the solar industry in Victoria with a clear overview of the rules and expectations for participation in the Solar Homes and Solar for Business programs.



Mandatory:

- Dynamic Exports/CSIP-AUS
- · Hot water heat pumps timer
- Serial numbers
- New Energy Tech Consumer Code
- Consumer protection Warranties

Recommended:

- Hot water heat pump fit-for-purpose for climate
- Power quality response region settings
- Victorian Energy Compare
- Performance warranty for solar PV panels
- Battery performance AS/NZS 5374:2023
- · Electricity data
- Hot water rank sizing

Social licence is critical

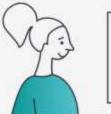


We do not dictate to our customers, we engage with them. True engagement means meeting people where they are. Understanding our customers gives us real insight into their priorities.



Customer Insights

#1 reason for going solar:





Save money on energy costs



73 % of customers are saving more, or as expected

79 % of are interested in another Solar Vic rebate



Customers are considering alternatives to gas heating and cooking, and further electrification options.



Electrification

We have an engaged cohort of three million solar customers (600,000 in Victoria)

60% plan to, or have replaced their gas central heating with an electric or split system **54**% plan to, or have replaced their gas hot water with an electric heat pump system

2 in 5
are considering purchasing an electric vehicle





50 % plan to, or have replaced their gas stove with an electric or induction cooktop plan to, or have replaced their old electrical appliances with more energy efficient models

New opportunities for Australia

- Local manufacturing, assembly, R&D
- End of life handling (re-use, refurbishment, recycling)
- Energy Innovation Fund
- Energy Technologies Manufacturing Fund
- National Reconstruction Fund (\$3b in renewables)
- Breakthrough Victoria Fund Solar Recycling Challenge



Six lessons for Electrification

1 Implementation is complex

Understand and manage the risks



3

The regulatory framework



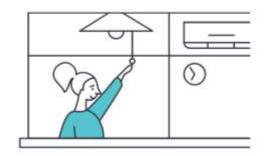
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Partnerships



5

Social licence



6

Understand the customer





Thank you





