IDEAL ELECTRICAL SUPPLIERS

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MASTERCRAFT ELECTRICAL

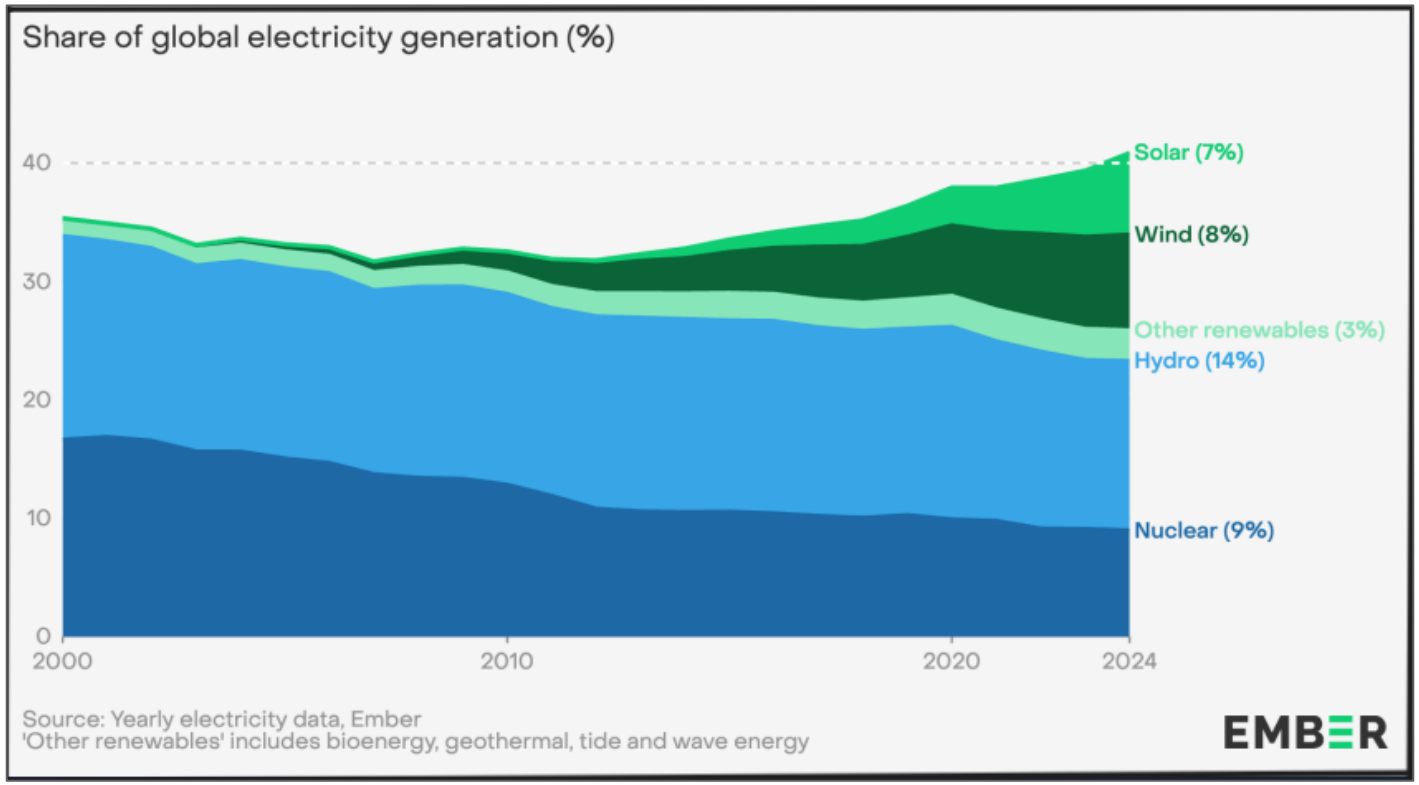
Bringing solar home

Your trusted local partner for solar energy solutions.



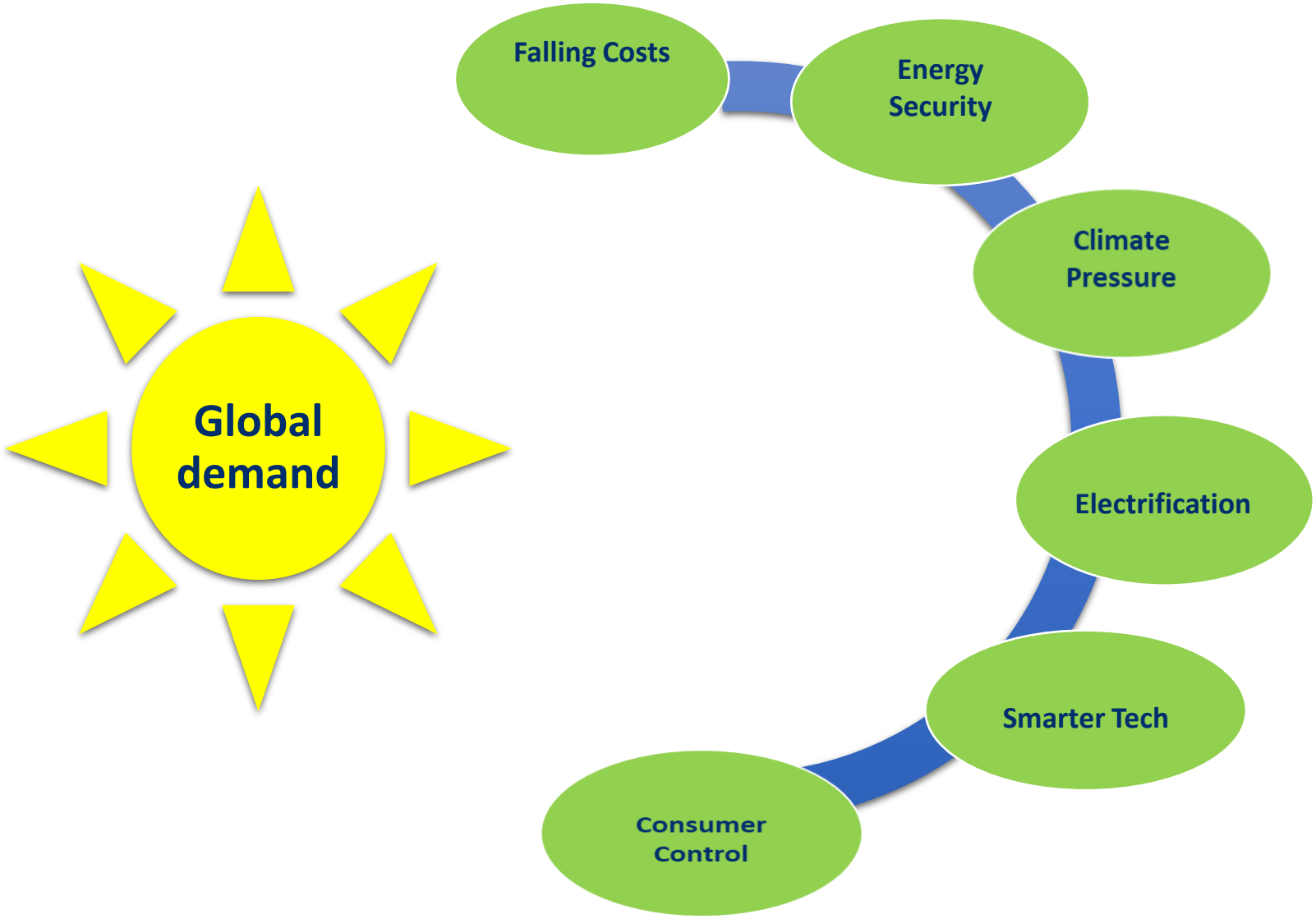
Global Perspective

- Clean energy = 40% of global electricity
- Solar passed 1.5 TW capacity in 2024
- Countries like China, India, Australia are adding record capacity
- By 2030, solar will be the #1 source of new generation (IEA)



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Global Perspective – Solar growth drivers



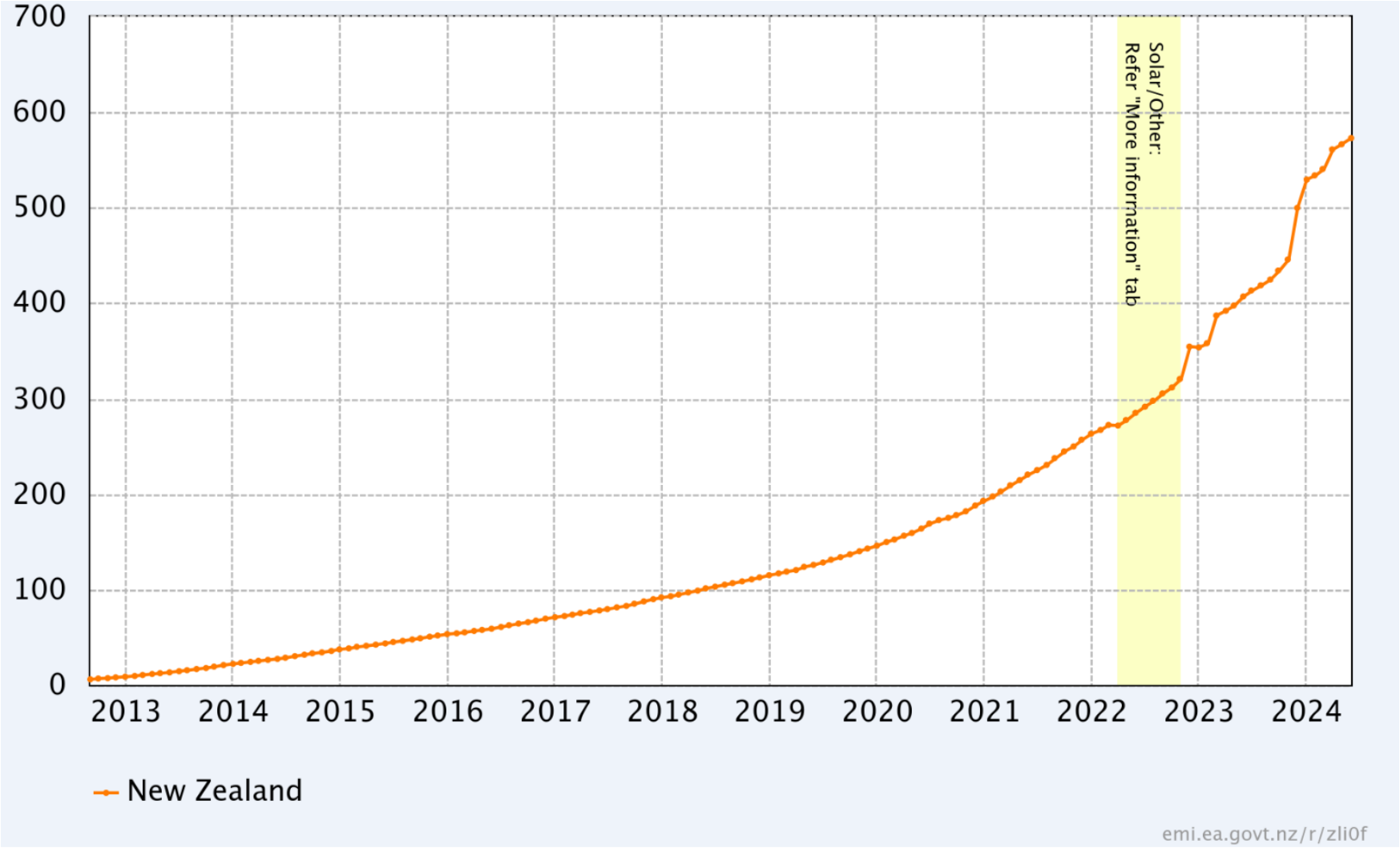
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NZ Landscape – Targets

2021	2025	2035
1%	<2%	6%
34,500 Residential – 145MW 2,000 SME – 27MW 1500 Commercial – 26MW	57,500 Residential – 285MW 3,700 SME – 76MW 2,600 Commercial – 70MW	

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NZ Landscape – Solar Boom



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About
Entelar Energy

Local Team and Support
Our team are all around NZ to offer support.

Trusted Partners
We partner with leading distributors.

Seamless Experience
Independently built software and app.



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Residential Range





Three Phase

Hybrid Inverter

EESOLAR-6/10KTL-M1

MPPT/Input: 2/2

Max. Current per MPPT/Short-circuit: 13.5A/19.5A

EESOLAR-20KTL-MB0

MPPT/Input: 2/4

Max. Current per MPPT (two strings) /Short-circuit: 30A/40A

Single Phase

Hybrid Inverter

EESOLAR-5/6KTL-L1

MPPT/Input: 2/2

Max. Current per MPPT/Short-circuit: 12.5A/18A

EESOLAR-10KTL-LC0

MPPT/Input: 3/3

Max. Current per MPPT/Short-circuit: 16A/20A



WLAN-FE Smart Dongle

EEDongleA-05

Can manage 10 devices



Smart Meter

DDSU666-H (Single Phase)

DTSU666-HW/YDS60-80 (Three Phase)

DTSU666-H 100A (Three Phase)

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Entelar Energy BESS

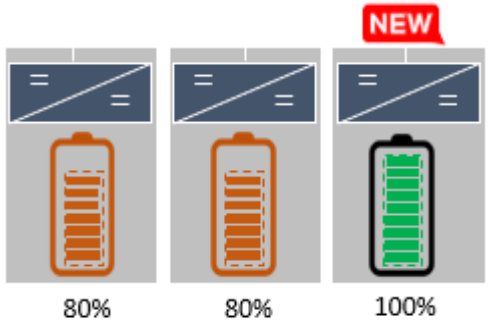
- Energy Independence
- Resilience & Backup Power
- Optimizing Solar Usage

Smart String Energy Storage System
EESTORE – (5-30)

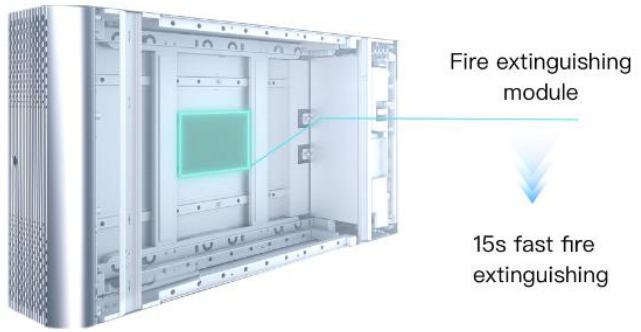




No
Pre-Charging!



Utilize parallel connection with each battery module equipped with unique Energy Optimizer (DC/DC) to isolate faulty module



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Commercial Inverters

Three Phase Grid-tied Inverter
EESOLAR-29.9/40/50KTL-M3
MPPT/Input: 4/8



Three Phase Hybrid Inverter
EESOLAR-20KTL-MB0
MPPT/Input: 2/4





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Decentralized warehousing



Auckland

To service the North Island







Christchurch

To service the South Island

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Join us at our new training centre

Get hands on with our commercial and residential systems.





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Entelar Express – Hitting the road with Ideal Electrical

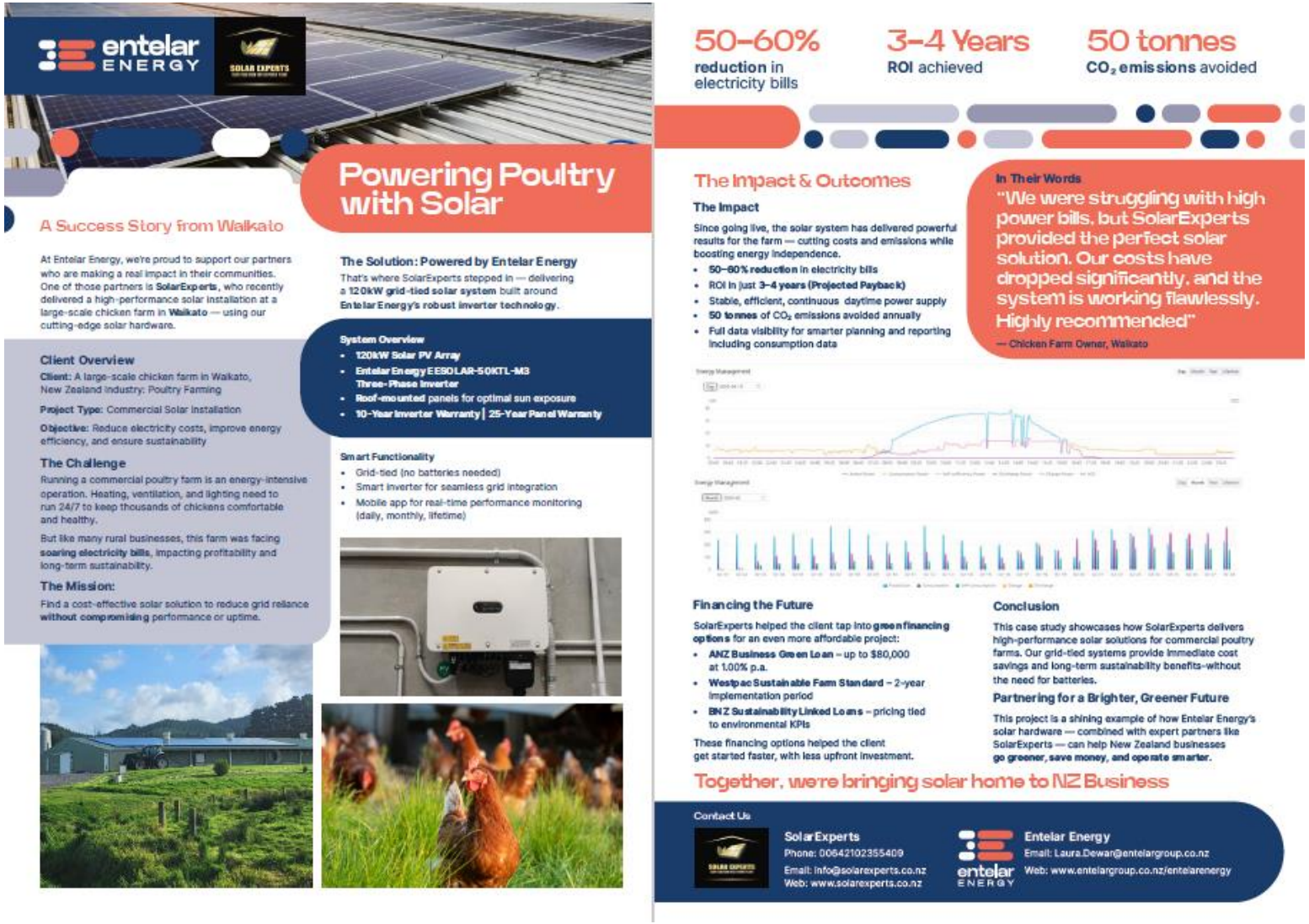


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Installer Incentive Campaign



Example Case Study



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SOLAR EXPERTS

Powering Poultry with Solar

A Success Story from Waikato

At Entelar Energy, we're proud to support our partners who are making a real impact in their communities. One of those partners is **SolarExperts**, who recently delivered a high-performance solar installation at a large-scale chicken farm in **Waikato** — using our cutting-edge solar hardware.

Client Overview

Client: A large-scale chicken farm in Waikato, New Zealand Industry: Poultry Farming

Project Type: Commercial Solar Installation

Objective: Reduce electricity costs, improve energy efficiency, and ensure sustainability

The Challenge

Running a commercial poultry farm is an energy-intensive operation. Heating, ventilation, and lighting need to run 24/7 to keep thousands of chickens comfortable and healthy.

But like many rural businesses, this farm was facing **soaring electricity bills**, impacting profitability and long-term sustainability.

The Mission:

Find a cost-effective solar solution to reduce grid reliance **without compromising** performance or uptime.

The Solution: Powered by Entelar Energy

That's where SolarExperts stepped in — delivering a **120kW grid-tied solar system** built around **Entelar Energy's robust inverter technology**.

System Overview

- **120kW Solar PV Array**
- **Entelar Energy EESOLAR-50KTL-M3 Three-Phase Inverter**
- **Roof-mounted** panels for optimal sun exposure
- **10-Year Inverter Warranty | 25-Year Panel Warranty**

Smart Functionality

- Grid-tied (no batteries needed)
- Smart inverter for seamless grid integration
- Mobile app for real-time performance monitoring (daily, monthly, lifetime)

50–60% reduction in electricity bills

3–4 Years ROI achieved

50 tonnes CO_2 emissions avoided

The Impact & Outcomes

The Impact

Since going live, the solar system has delivered powerful results for the farm — cutting costs and emissions while boosting energy independence.

- **50–60% reduction** in electricity bills
- ROI in just **3–4 years (Projected Payback)**
- Stable, efficient, continuous daytime power supply
- **50 tonnes** of CO_2 emissions avoided annually
- Full data visibility for smarter planning and reporting including consumption data

In Their Words

"We were struggling with high power bills, but SolarExperts provided the perfect solar solution. Our costs have dropped significantly, and the system is working flawlessly. Highly recommended"

— Chicken Farm Owner, Waikato

Financing the Future

SolarExperts helped the client tap into **green financing options** for an even more affordable project:

- **ANZ Business Green Loan** – up to $80,000 at 1.00% p.a.
- **Westpac Sustainable Farm Standard** – 2-year implementation period
- **BNZ Sustainability Linked Loans** – pricing tied to environmental KPIs

These financing options helped the client get started faster, with less upfront investment.

Conclusion

This case study showcases how SolarExperts delivers high-performance solar solutions for commercial poultry farms. Our grid-tied systems provide immediate cost savings and long-term sustainability benefits–without the need for batteries.

Partnering for a Brighter, Greener Future

This project is a shining example of how Entelar Energy's solar hardware — combined with expert partners like SolarExperts — can help New Zealand businesses **go greener, save money, and operate smarter.**

Together, we're bringing solar home to NZ Business

Contact Us

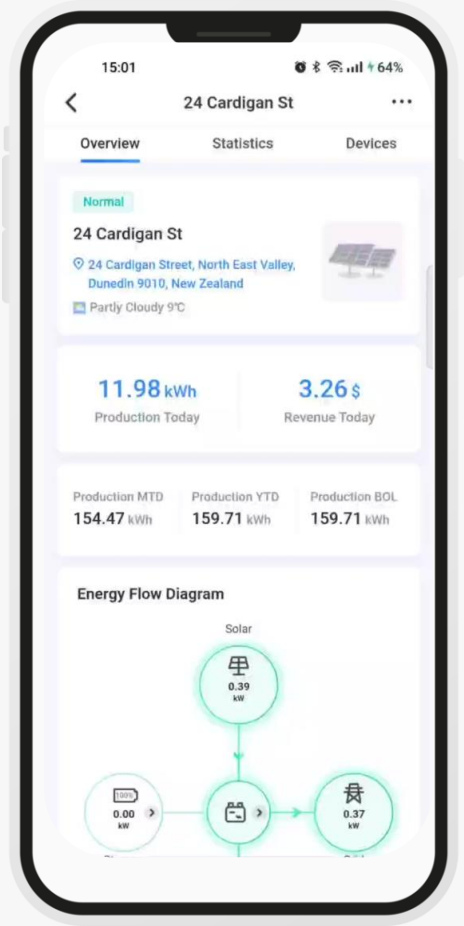
SolarExperts
Phone: 00642102355409
Email: info@solarexperts.co.nz
Web: www.solarexperts.co.nz

Entelar Energy
Email: Laura.Dewar@entelargroup.co.nz
Web: www.entelargroup.co.nz/entelarenergy

Software and App

Your gateway to solar insights

- Independently built app
- User friendly interface
- App and customer data hosted in Europe
- Offsite monitoring and plant management





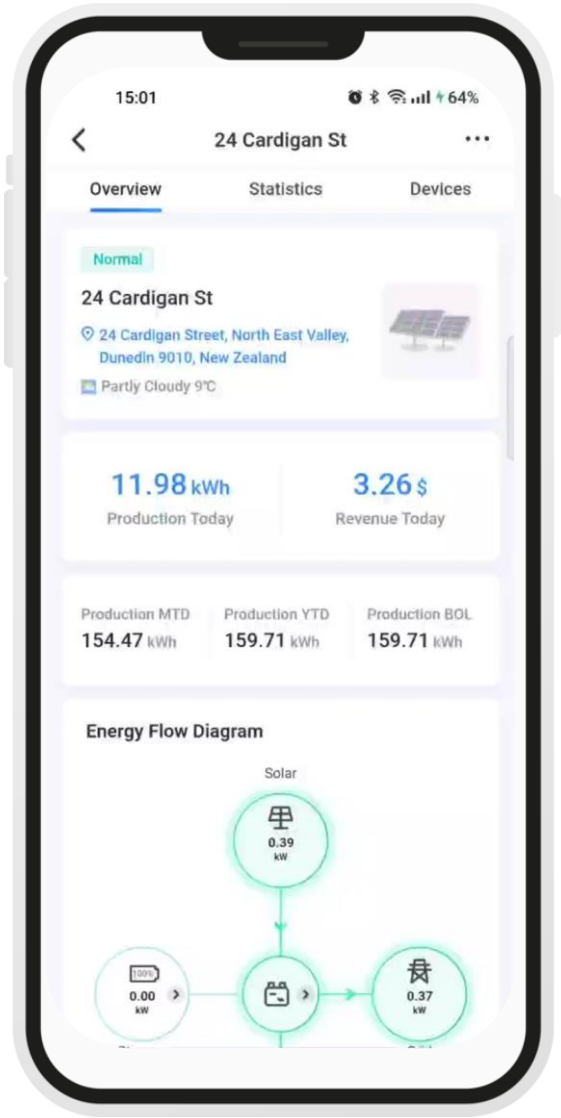
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Software and App

How you've helped us improve

Developments from initial launch:

- Added self-registration function
- Added web portal Fleet Map function
- Added TOU (Time of use) function for battery
- Added emergency shut down function
- API manual available for PPA and VPP project
- Simplify the device redetect function
- Added Entelar Energy logo on the account verification email
- Export the device log from the web portal
- Modify the CT direction

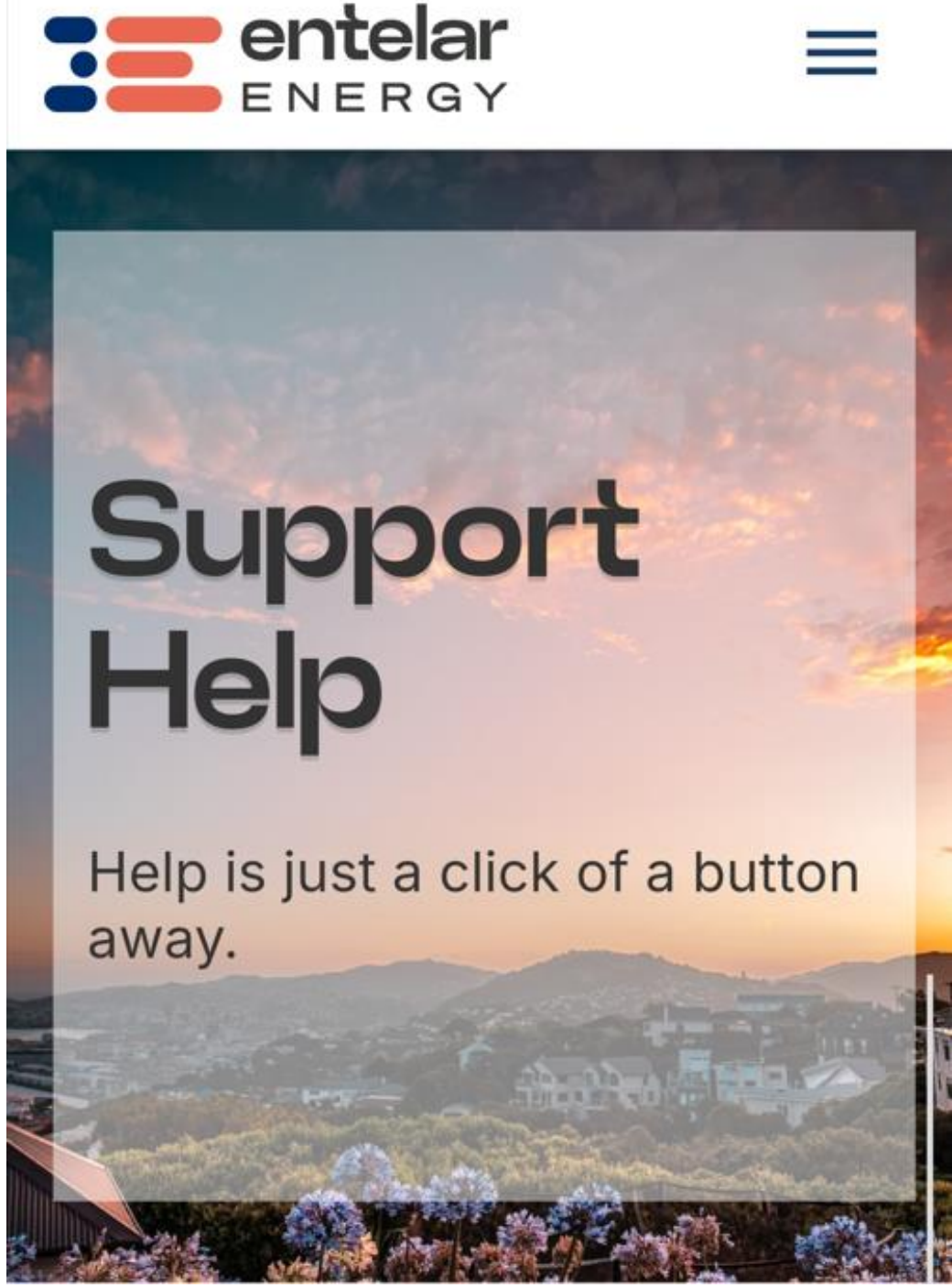


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Technical Support

Helpdesk – 0800 835 3447
Option 4

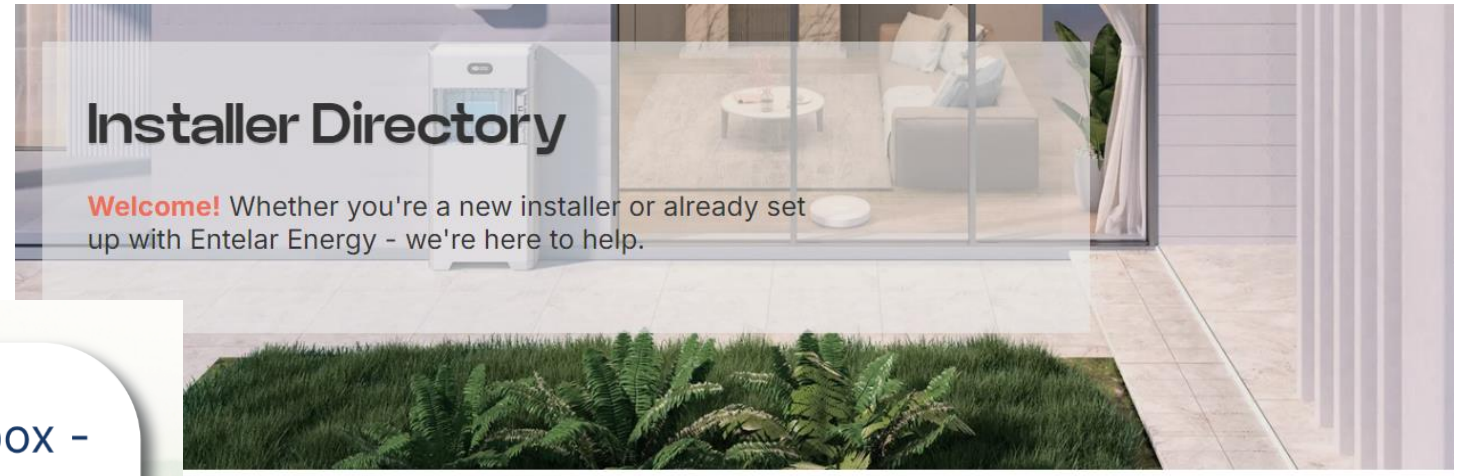
https://insights.entelargroup.co.nz/entelar-energy-support



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Technical Support





Let's Begin:

Are you a new installer that's never worked with Entelar Energy before? Click below for everything you need to know about getting set up.

I Am A New Installer

Worked with us before? Click below if you already have the app set up and you just need to get to the juicy installation details.

I Have The App Set Up And Just Need More Information

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Thank You

Your trusted local partner for solar energy solutions.

entelarenergy.co.nz

