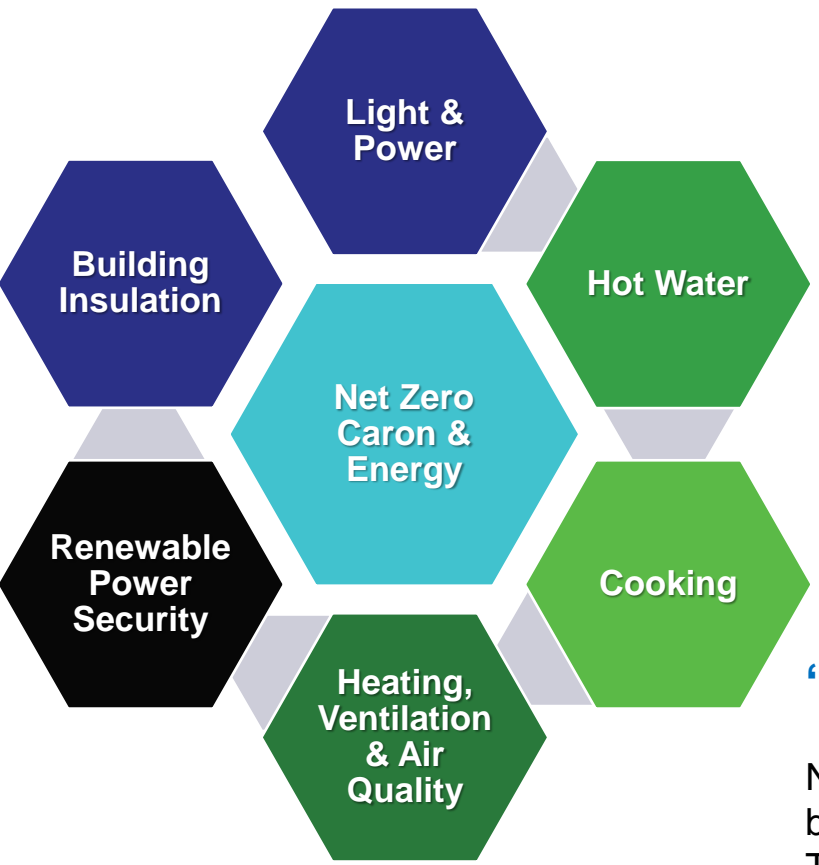


A Plan to Net Zero – Intelligent Energy+



HOMES



“#Electrify-me”

Net Zero Carbon & Energy believes the quickest way to achieve Net Zero starts with our homes and businesses is by electrifying as quickly as possible. This presentation offers an insight into some of the best technologies and services available in Australia that will achieve this target and this is also the opportunity.

This includes improving the resilience and health of these homes and businesses

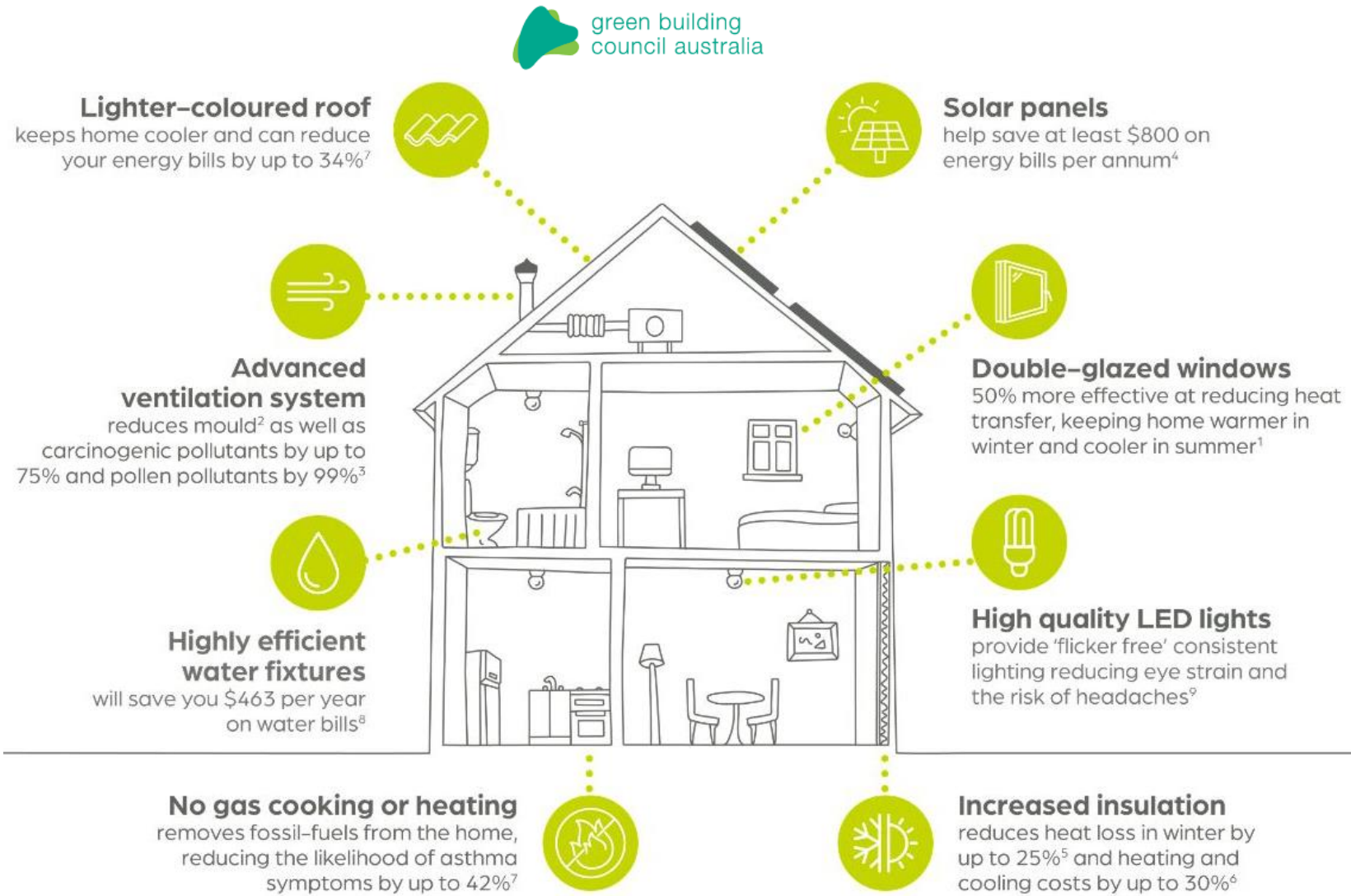
Green Building Council Australia – New House Build Recommendations

The Green Building Council guideline for Green Star ratings offers new builders and home owners an opportunity to develop buildings that can have a significant impact on the sustainability and ongoing energy costs of running the building or home.

Net Zero offers this to existing homes which is 80% of housing stocks.

NatHERS assessors sign off these upgrades via their scorecard process.

By 2025 this scorecard star rating will be mandatory in selling domestic homes in NSW



Our Process



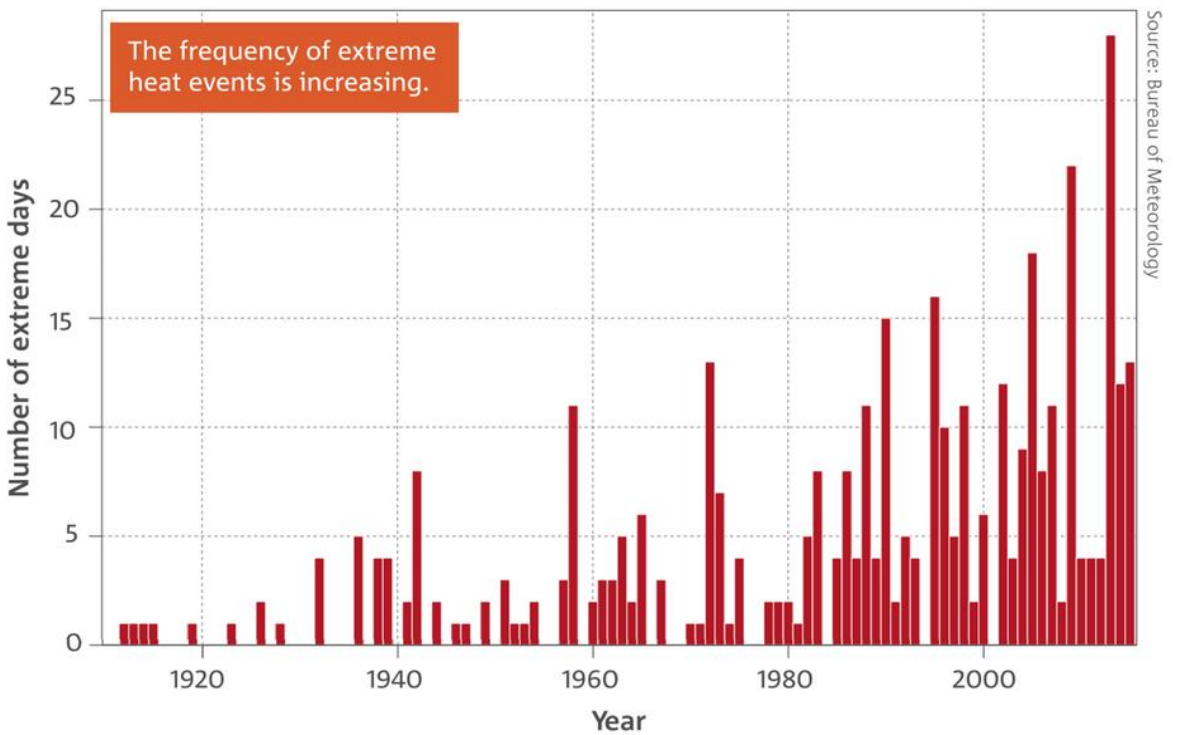
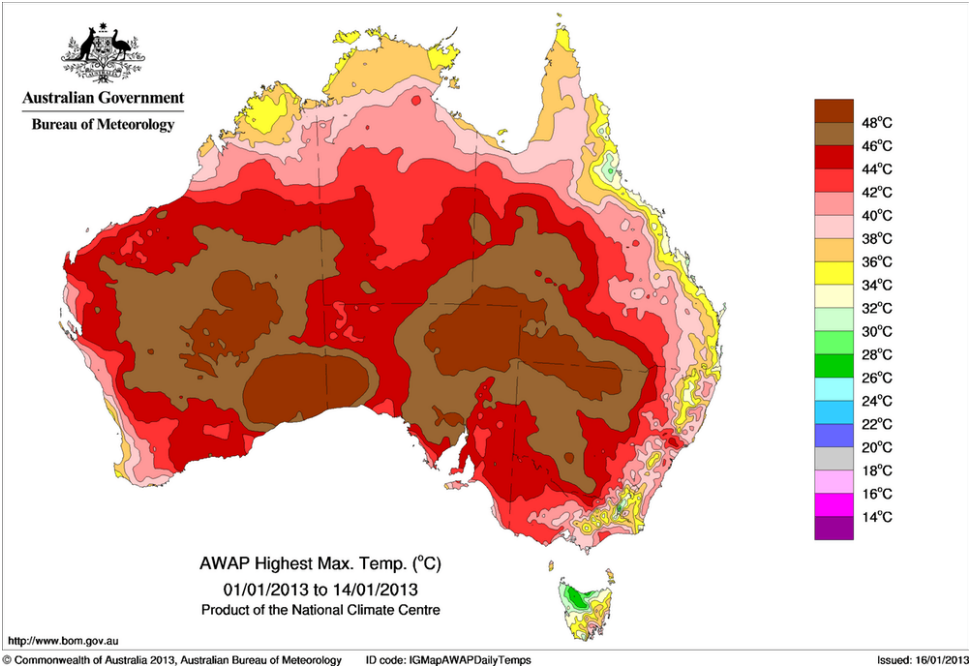
Our end-to-end process solution includes:

- **Asset & Site Audit** – This gives us an overview of the condition of the site and its assets. Our audit process supplies our customers the ability to procure the capital equipment required whilst targeting government rebates.
- **Accessing Government rebates and grants / Assess monitoring on site.**
- **Present the results and recommendations.**
- **Customer Plan** – We work with the customer to create the best plan to a budget that gains this biggest savings.
- **Customer Presentation & Proposal** – Re-present your costed plan.
- **Install and gauge savings** – Pre installation monitoring allows us to review how each installation gains savings on the site.
- **Establish with incumbent mechanical and electrical services a regular maintenance process.**
- **We operate in both the CAPEX to OPEX space. Our offer is a full building & business approach.**

Our focus is on savings and ROI.



Increasing Temperatures

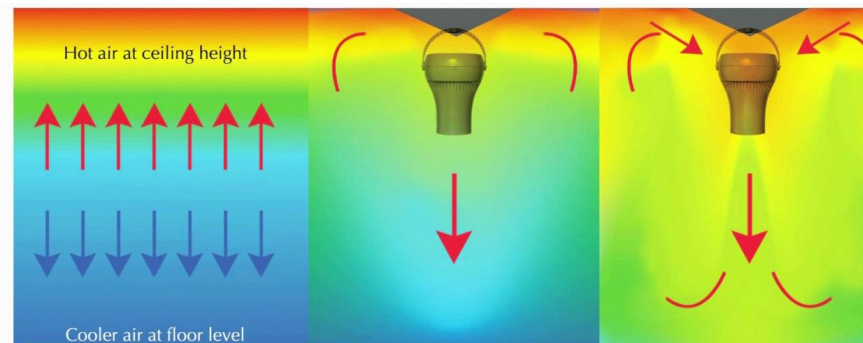


Since the year 2000, there has been an increase in the amount of extreme weather events particularly with extreme heat days. These periods cause extensive problems to the way our existing buildings perform from an energy load level and personal comfort basic standard. Australia has always been a hot dry continent but this is now increasing.

With increases in temperature and escalation in extreme heat days, the opportunity is to introduce a product combined solution that specifically designed that controls the effects of these extremes by limiting its impact on energy costs.

Combating Heat Solutions

Increased thermal loading on buildings directly effects power usage particularly against refrigeration and air conditioning loads and significantly effects thermal comfort .



Airconditioning & refrigeration account for up to 65% - 80% of the total power consumption for a business and 27 – 30% of domestic homes. Therefore, any improvements in the performance of the buildings thermal performance offers a good return in any investment made.

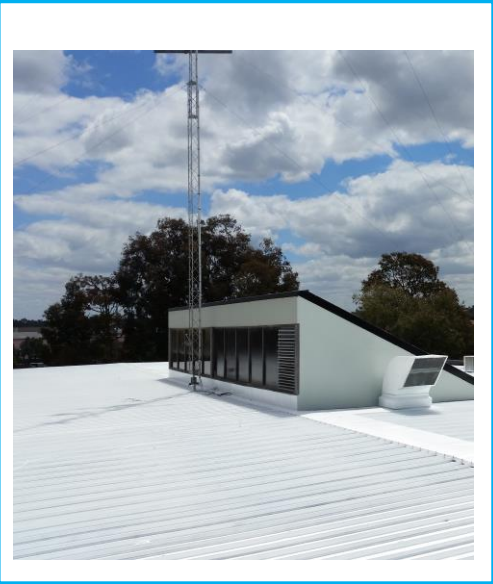
Net Zero Carbon & Energy offers :

- Reduces window and roof temperatures by 5 – 8 degrees
- Balances air loads to reduce air conditioning cycling
- Reduces air conditioning power usage by powering directly from renewable energy.
- Reduces roof and wall heat load gains & losses through specifically designed coatings.
- Improves thermal performance of the building & the comfort of the people inside.
- These technologies combined future proof buildings from the effects of climate change

Combating Heat - Technologies



ROOF & WALL THERMAL PAINT



UP TO 47% SAVINGS
THERMAL HEAT GAINS OR LOSSES THROUGH
ROOFS & WALLS

SOLAR POWERED AIR CONDITIONING



85%+ SAVINGS ON
AIRCONDITIONING POWER &
POWER OUTAGE RESISTANT

AIR BALANCING



CREATES SAVINGS BY
BALANCING ROOMS AIR
CONDITIONING – 26%
COOLING – 35% HEATING

WINDOW INSULATION



REDUCES HEAT GAINS BY 72% & STOPS
AIR CONDITIONING LEAKAGE THROUGH
GLASS

Each of these technologies combined in a single application creates a larger energy saving overall, which better balances both the energy and heat loads of a building. An overall savings of 50%+ or more can be achieved by the use of multiple technologies. It also means spaces are better utilised by removing hot and cold areas within the same space.



Energy Saving - General

VARIABLE SPEED DRIVES



UP TO 35% SAVINGS
COMPRESSORS, PUMPS &
FANS LOADS

LED LIGHTING



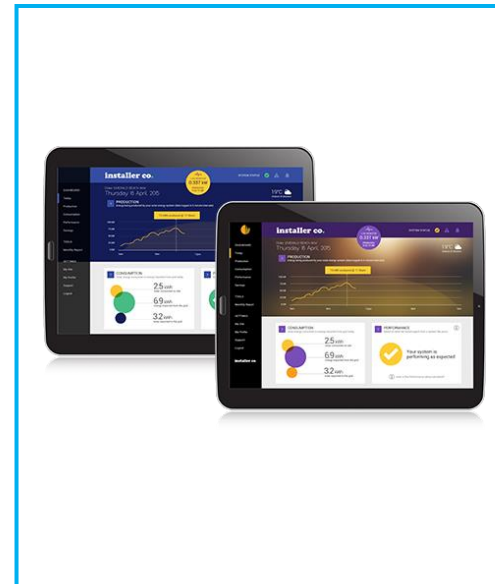
UP TO 85% SAVINGS
LIGHT LOADS

HOT WATER HEAT PUMPS



UP TO 75% SAVINGS
IN HOT WATER COSTS

ENERGY MONITORING



GIVES BUILDING OWNERS A CLEARER
PICTURE OF HOW ENERGY IS BEING
CONSUMED

These technologies are seen as the starting point in energy efficiency. Understanding how your energy is being used is critical to creating a plan for any building.

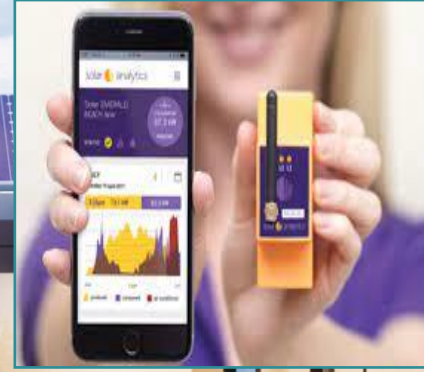
Electrify / Improve



Induction
Cooktops



EV Car Charger



Energy
Monitoring



Motor Control
(Pumps)



Air Conditioning
Cleaning Kits



LED Lighting



Solar LED
Lighting



Thermal Protection
Roof & Walls



Solar Pool Heaters Solar Pool Pumps

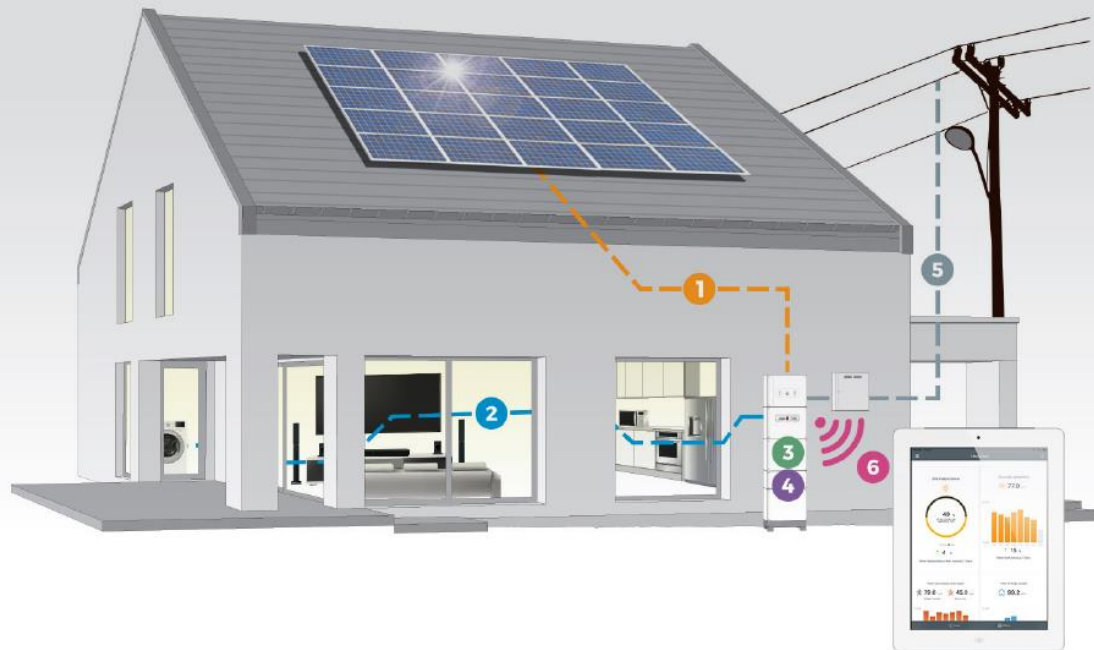
Our Solar Pool Heating systems are supplied with a pool cover which retains the heat when not in use and used correctly can offer free pool heating all through the winter months..

Installation includes customer education in managing & understanding your system and along with panels and a DC pool pump.

Brochure available

(C) Copyright - Net Zero Carbon & Energy - Commercial
And In Confidence

Solar & Batteries



1

Your inverter and solar panels convert sunlight to power

2

This power can then be used by your household appliances

3

Excess power can be stored in your home battery and used by your appliances when your solar panels aren't generating enough for your needs

4

Available energy can also be used to power key appliances and lighting in the event of a power outage*

5

Energy you can't store or use, can be sold back to the grid

6

You can monitor and manage your energy use more efficiently through the Redback portal and mobile app



Net Zero Carbon & Energy offer a marketing leading solar and battery offer with market leading warranties.

Installation includes customer education in managing & understanding your system.

The solar is supplied as an optimised system coupled with an AC or DC battery with full system monitoring & can be set for blackout settings and incorporate car charging. (Bi Directional Options available soon)

Combining Energy Efficiency & Renewables

Combining energy efficiency including avoided energy efficiency at the design & build stage can have a significant impact on the ongoing operational costs of the building. Most builders are not interested in your ongoing power costs, but your tenants are.



CASE STUDY – NGO WOMENS SHELTER NSW – NEW BUILD

Completed in 2022, the site is the equivalent of four (4) domestic homes with up to a maximum of 36 residents and staff. It has an average daily use of 46-79kWh per day dependant on occupancy. Building footprint 430 SqM2. With the excess power generated and the site having no gas, year to date this site runs at Net Zero.

- 85% avoided energy consumed air conditioning
- 75% energy consumed in hot water used.
- 85% energy reduction – Solar & Batteries

This sites energy costs can be as little as \$0.30 cents per day

Grants & Rebates

There are currently rebates available in NSW, Victoria, SA & ACT for state based and federal rebates

Working in conjunction with our registered contractors or registering our customers contractors along with our accredited certificate providers allows Net Zero Carbon & Energy to offer our clients the ability to claim rebates under schemes such as HEBA, HEERS, PIAM & V, the Energy Savings Scheme and the Emissions Reduction Fund to significantly reduce capital costs when equipment is planned and registered under the schemes.

This can be a minefield for business owners to navigate.

EMISSIONS
REDUCTION
FUND





Contact: - info@netzeroce.com.au
Chris Cavenagh 0498 006 227