

Josh's House Living Lab

A 10 year solar journey

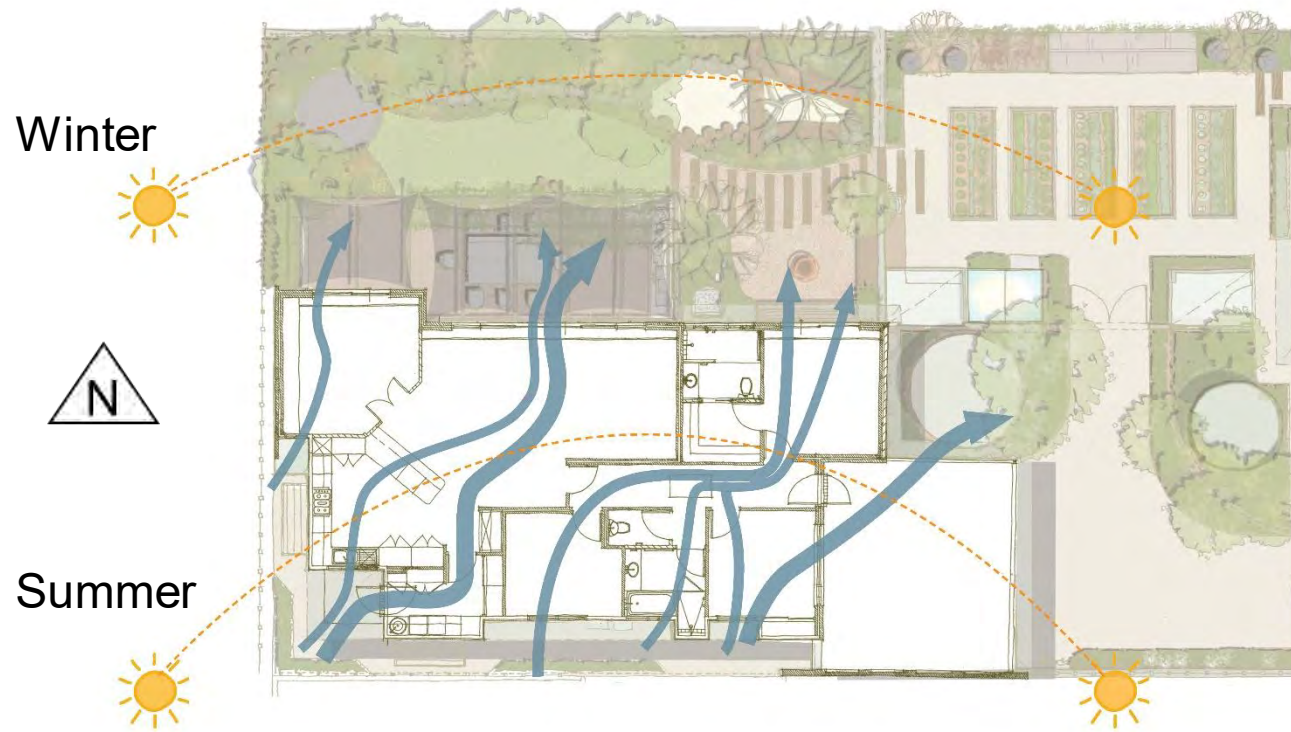
Professor Josh Byrne



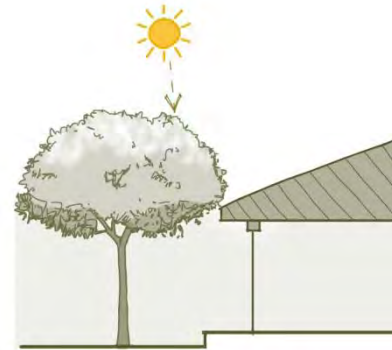


CLIMATE RESPONSIVE DESIGN

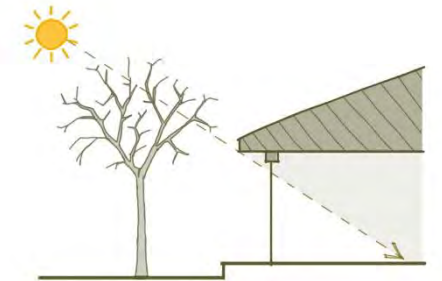
Solar Gain & Cross Ventilation



Summer



Winter



THERMAL SHELL

Internal Thermal Mass & Wall Insulation



Light Coloured Roof + Roof & Ceiling Insulation



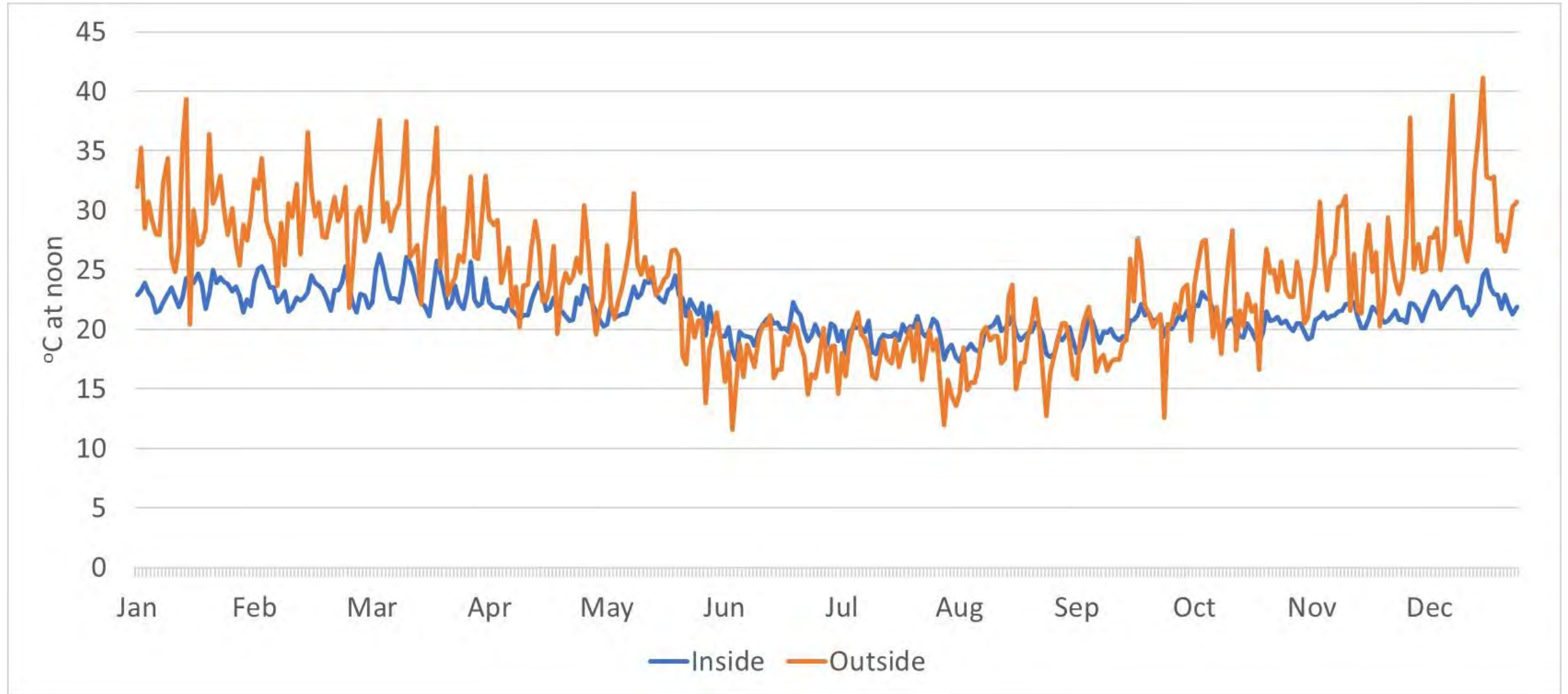
High Performance Glazing & Drapes



Landscaping for Seasonal Shading & Localised Cooling



Annual Temperature Profile



ENERGY SYSTEM – STAGE 1: 2013

Net Zero Emissions (Dual Fuel)



Gas Cooktop + Electric Oven



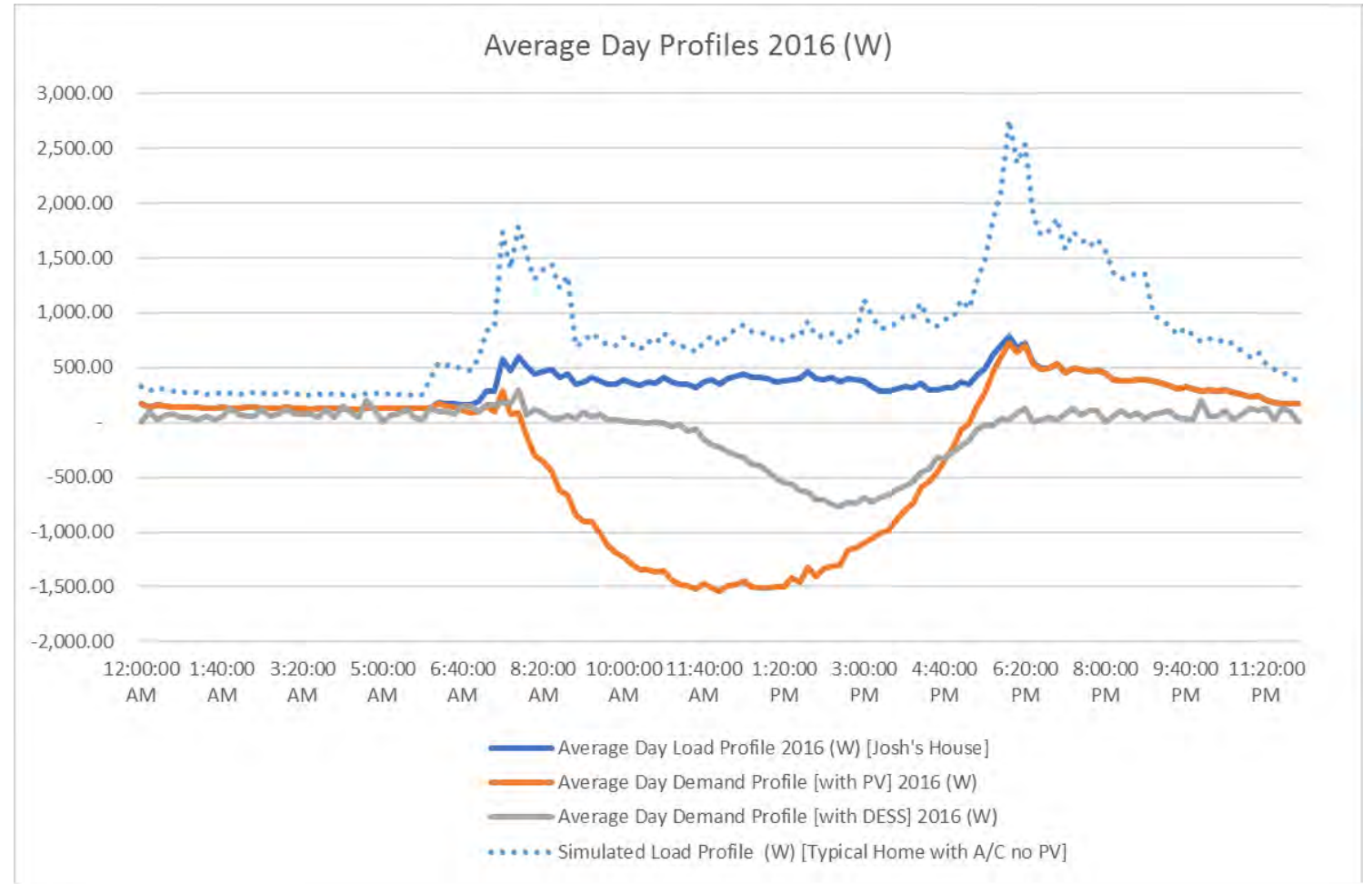
Efficient Fixtures Appliances



Efficient Lighting



Battery Added to Increase Utilisation of Solar Energy

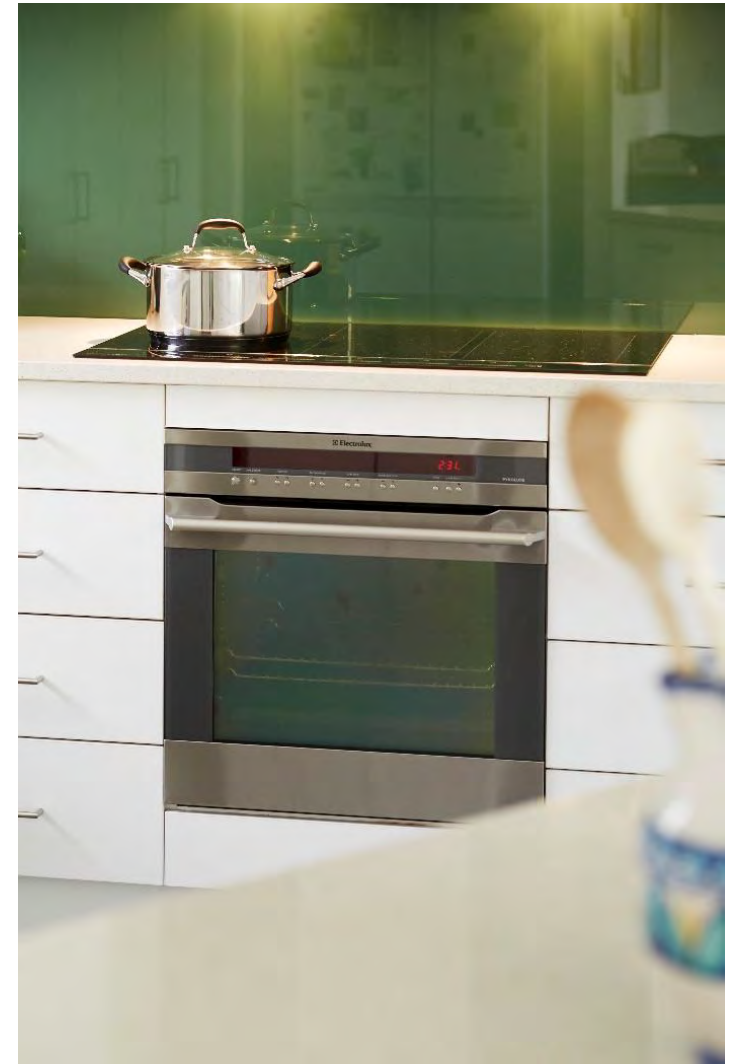


ENERGY SYSTEM – STAGE 3: 2018

Heat Pump Hot Water System



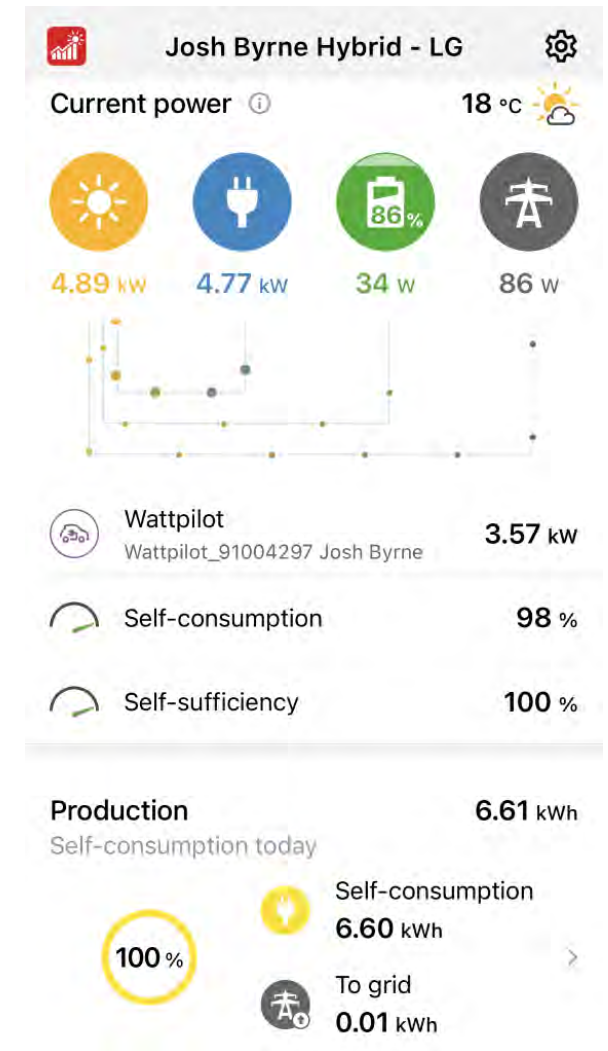
Induction Cooktop



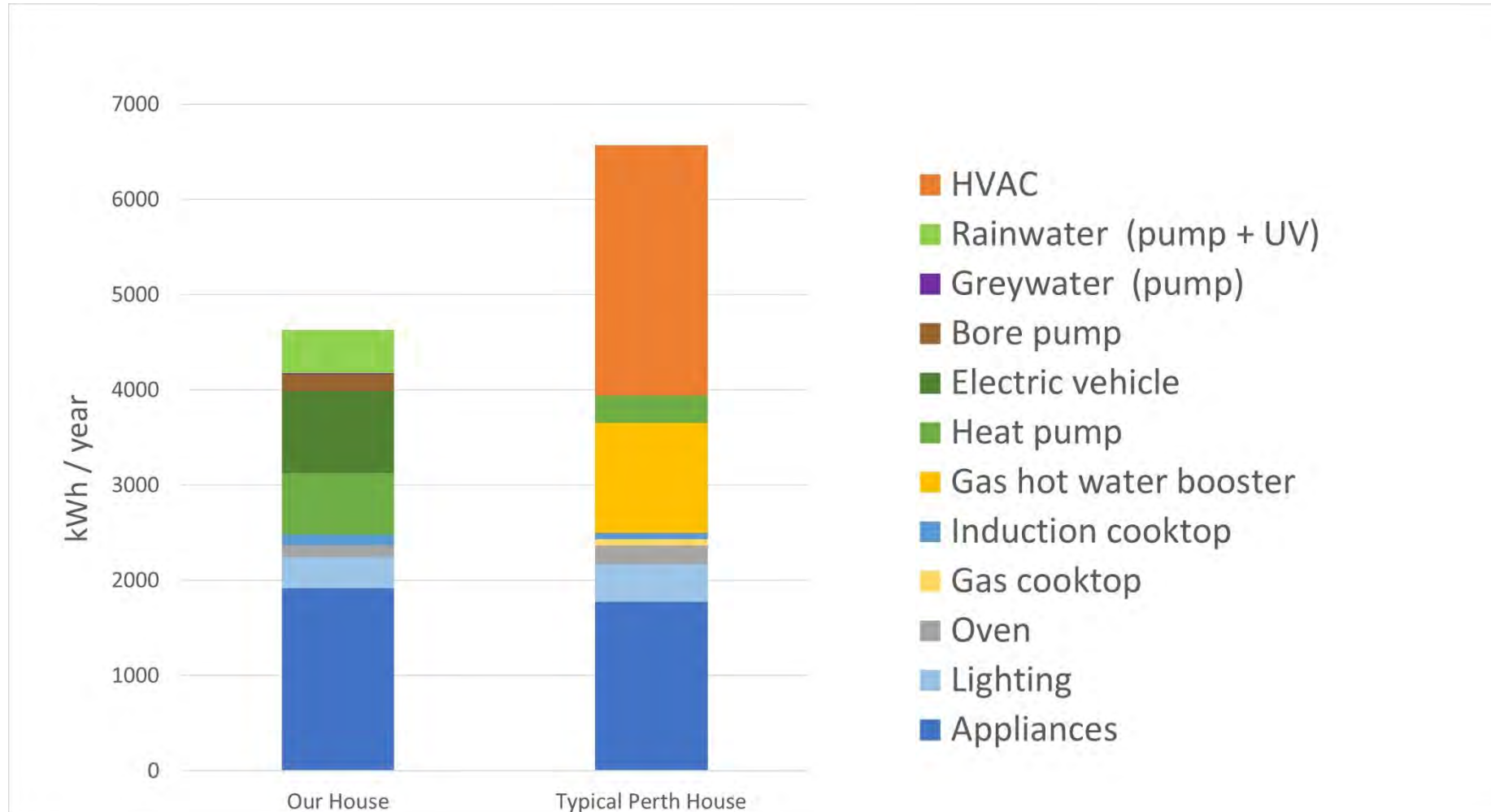
PV + Battery Upgraded



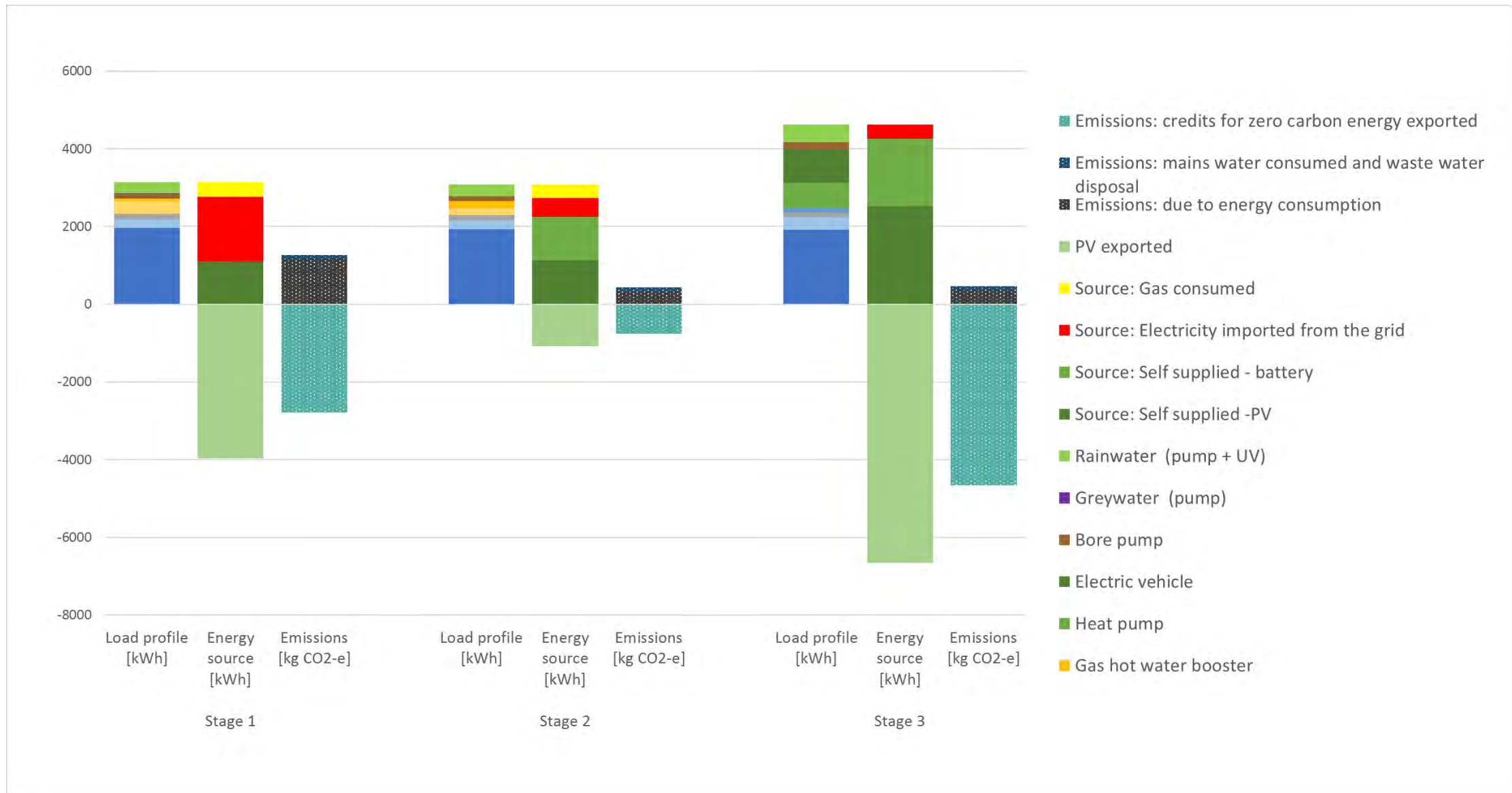
Electric Vehicle Charging



Annual Energy Use by Load



Annual Energy Use & Emissions by Stage



COMMUNICATION & ENGAGEMENT

Sunday Times
HOME
July 14-20, 2013 / perth.now.com.au

INSIDER
Discount pricing to help you budget
SHOPFRONT
Functional furniture for every room

STARRING ROLE
Josh Byrne's new family home rates its sustainable socks off

HURRY
Limited Time

To do check list

- Supply Book
- Shopping Spree
- DOUBLE my tax return and build my first home

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JOSH'S HOUSE
WARM PRODUCTIVE COOL

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from Josh's House #FRO

JOSH'S EPISODE 7 HOUSE

08:33 HD :: vimeo

SHOWCASING THE BENEFITS OF SUSTAINABLE HOUSING TO THE COMMUNITY THROUGH DEMONSTRATION AND INSPIRATION

JOSH'S HOUSE IN THE SUNDAY TIMES
It's been a massive week for Josh's House with a page 28 article in the Sunday Times and the opportunity on the Home Magazine. The added exposure has increased interest in the website 20 times over. Our Facebook community has reached 1000 likes and...

Keen to know how Josh's integrated water system will work? Visit our Resources section to download the plan along with whole lot of other free information.

THE PROJECT OUR PARTNERS RECENT NEWS SUBSCRIBE

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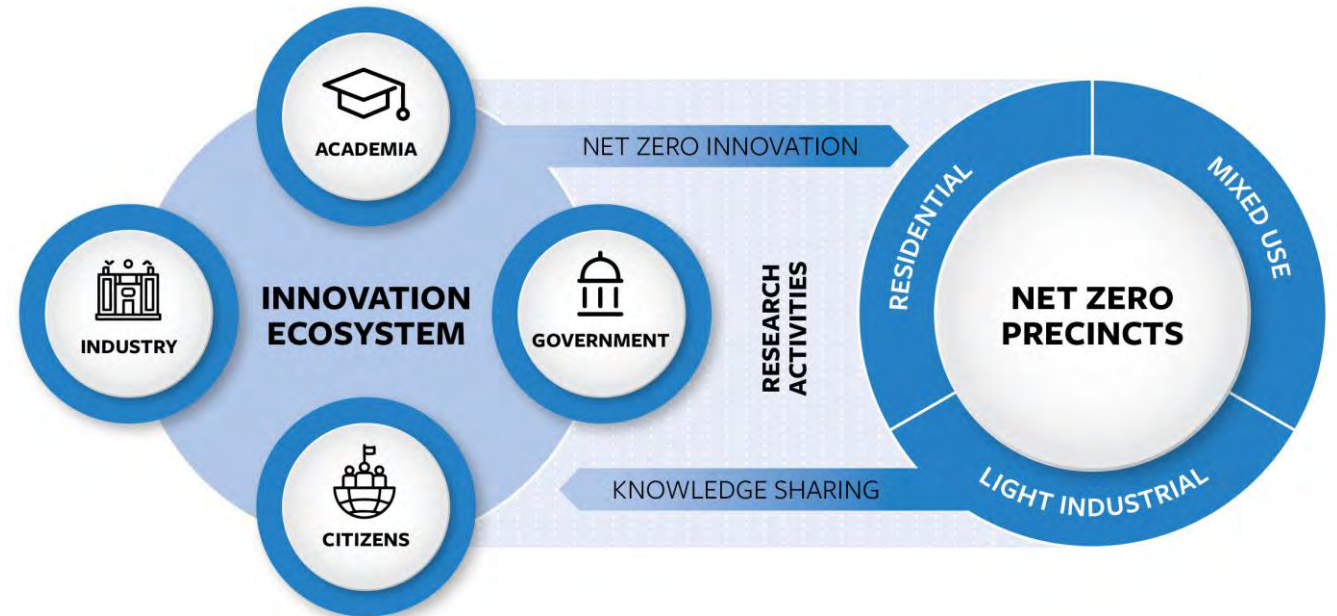
NET ZERO HOUSING GUIDANCE

- No fossil gas
- Min. 7 star NatHERS rating
- Heat pump hot water service
- Induction cooking
- Min. 4 star AC rating
- Min. 3.5 kW PV system
- Battery storage ready
- EV ready



PATHWAYS TO NET ZERO PRECINCTS

- Investigate how to achieve net zero emissions outcomes.
- Embed research within live case study precincts at different stages of maturity.
- Share learnings in quick time to accelerate adoption and rapid scaling nationally.



www.netzeroprincts.au