

Solar in high density living made possible by Enphase

CHALLENGE

Design a 172 kW rooftop installation comprising 86 individual systems wired individually to each apartment.

SOLUTION

Enphase's distributed architecture and discrete positioning made it possible for each apartment to have its own dedicated 2 kW solar system without needing 86 large, noisy, high voltage string inverters.

RESULT

A safe, high performance and aesthetically appropriate system which provides individualised reporting for each apartment's solar system.



“Flo is really representative of the future direction of residential developments in Perth.”

— Chiara Pacifici
Head of Sustainability, Psaros

Ecologically sustainable in design, Flo Apartments gives each owner their own 2 kW solar PV system which, thanks to Enphase, can be monitored by the owner – letting them take total control of their energy, saving them money and reducing their carbon footprint.

Meeting the demand for “Future Proofed” living

With rising energy costs and a greater awareness of environmental concerns, property buyers of Western Australia are showing an increasing appetite for future-proofed dwellings equipped with sustainable design and renewable energy technologies. These dwellings can produce cost savings as well as increased future resale value through the use of energy-efficient building materials, appliances and technologies. In the past however, the complexities of incorporating sustainable living principles and technology into high density apartments have made it difficult for developers to fully embrace renewable energy.

Enphase Solar // Success Story // Five X Four Hayes Lane Project



Unobtrusive yet powerful, Enphase's microinverters made it possible to easily disguise 86 individual systems as a single, sleek rooftop installation that perfectly complements Flo's high-end aesthetics.

Taking on the challenge with Flo Apartments, Psaros succeeded in style with 58 residential apartments and 4 commercial lots that not only confer all the benefits of ecologically sustainable design but allow full owner control of them as well.

A whole new level of energy independence for apartments

Not satisfied with installing solar just as a way to passively reduce costs, Psaros assigned 2 kW of its 172 kW rooftop system to each apartment to give Flo Apartment dwellers an active role in reducing their own carbon emissions. Made possible by the flexibility of the Enphase Microinverter System, this individual allocation of 2 kW systems means that each apartment can view its own solar energy generation and net cost savings.

By actively building sustainable habits, residents have the opportunity to cut their power bills up to 50% - and if this isn't incentive enough, the ability to compare solar power generation with neighbors provides that extra little bit of neighbourly competition. The best part? While owners get to save and indulge their inner eco-champion, Psaros wins as well with a shrinking carbon footprint on their development.

The success of Flo proves that there is overwhelming buyer support for projects incorporating renewable technologies. Not only are they cost cutting but people are recognising that this is the way of the future. We, at Enphase, are proud to be helping build that future.

INSTALLATION SUMMARY

Client **Psaros**

Location **Perth, Western Australia**

Installer **Metro Solar**

Completion Date **February 2015**

System Size **172kW (86 x 2 kW)**

Microinverters **Enphase M215**

Modules **JA270**

About Enphase Energy

The Enphase System revolutionises solar power generation with industry-leading technology innovation. Enphase's proven microinverter technology maximises production of each module, which works together with advanced communications hardware and an intelligent software platform to deliver a reliable, high-performance solar array.

Learn more about the benefits of the Enphase Microinverter System. Visit enphase.com/au

