

# Australian Conservation Foundation Walks the Walk with Solar

## CHALLENGE

Achieve a low energy and resource efficient workplace that demonstrates the importance of minimising environmental impact

## SOLUTION

Install the Enphase System to generate clean, free energy with easily accessible monitoring and production reporting

## RESULT

Australia's premier green building proves environmentally sustainable solutions can be easily integrated into offices and homes



“Enphase satisfied every goal of this project, but most importantly, the end result satisfied our client.”

— Graham Sutherland  
Project Manager  
Going Solar

To show how commercial and corporate buildings can go green, the Australian Conservation Foundation used its own office, a building nicknamed 60L for its address, as a ‘test case’. From building materials to location to physical orientation, 60L was designed to conserve.

### Setting an Example

The Australian Conservation Foundation (ACF) works to secure a sustainable and lasting environment, dedicated to transforming Australia’s energy production into clean energy sources. In their latest effort to prove just how easy it is to go green, ACF set up shop in what is now Australia’s premier green commercial building—60L.

Even before the construction of 60L, environmental design, energy and resource use were the critical focus of the building design. Measures were taken to



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With Enphase, all cabling from the roof and inside the building is standard 230V AC, ensuring occupant and office safety.

minimise the consumption of materials used, and maximise their reuse, as well as minimise the consumption of mains water, and maximise recycling of treated wastewater.

When it was time to add solar, Going Solar used their 36 years in the solar industry to choose the perfect solution for the job.

“ACF wanted premium solar components to ensure the best long-term sustainability outcomes as well as a system that would allow for full reporting on electricity generation and ecological offset,” said Graham Sutherland, Project Manager of Going Solar. “By using Enphase Microinverters we were able to maximise annual production, alleviate shade effects, and provide access to system monitoring and production data.”

Despite 60L’s limited rooftop space, Going Solar was able to design the system that would reach maximum production potential by mounting the system north facing, with modules

both flat to the roof and on a 10 degree tilt. Enphase technology maximises annual energy harvesting capability at this low inclination, while at the same time ensuring best daily performance despite early morning and late afternoon shade effects.

Going Solar recommended Enphase Microinverters because, unlike string inverters, they could decouple the panels from each other so that any shade from structural elements does not impact the entire system’s production capability.

### Keeping an Eye on Production

Having solar on their roof wasn’t enough: ACF wanted to see the results as they happened. ACF requested a high level of operational transparency for their system to enable granular, module-level monitoring capability in real time.

Enphase’s cloud-based Enlighten software allows both the installer and building manager to keep a close eye on system performance and provides remote system diagnostic tools for any cleaning and long-term maintenance requirements.

“We were able to give ACF peace of mind with their Enphase System,” said Sutherland. “The respected brand name of Enphase technology, backed by a leading warranty, ensures the highest reliability.”

Enphase reliability is reinforced through Enlighten’s automatic alerts, which tell the installer and owner that the system is operating as designed, and safeguard against any unexpected downtime or loss in energy production.

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### INSTALLATION SUMMARY

Client **Australian Conservation Foundation**

Location **Carlton, VIC**

Completion Date **July 2014**

Installer **Going Solar**

System Size **15kW**

Microinverters **Enphase M215**

Modules **Winaico WST-250 P6**

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### About Enphase Energy

Enphase Energy revolutionises solar power generation with industry-leading technology innovation. Enphase’s proven micro-inverter 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.

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To find how Enphase can help cut your energy bills and carbon footprint, visit [enphase.com/au](http://enphase.com/au).