



Knowes Housing Association

Clydebank, UK

Tackling fuel poverty with rooftop PV

365^{kWp}

133 Systems

183,000^{KG CO₂}

Savings per year

1,500

Modules

**Residential
rooftop
installation**

“Our relationship with Trina Solar has allowed us to develop a sustainable energy solution using market leading solar technologies resulting in lower O&M cost. It is critical to our business model that we have established an alliance with Trina Solar to ensure that we work together to deliver a consistent high quality product both in terms of system performance and maintenance.”

Fraser MacKenzie, Business Development Director,
Edison Energy

In close cooperation with Trina Solar, Glasgow-based Edison Energy has completed a ground-breaking project which is delivering sustainable and cheaper power to hundreds of social housing tenants. It has targeted sections of the community most at risk of fuel poverty as well as providing a revenue stream, with excess energy being sold back to the national grid. The scheme involved fitting Trina Solar panels to 133 houses in the Scottish town of Clydebank, owned by Knowes Housing Association, a charitable registered social landlord. The two-year improvement programme also included installations at other Knowes Housing Association locations. A total of 350 houses have benefited from systems ranging in



size from 2kWp-4kWp, offering a sustainable approach for the tenants' energy needs. More than 100 homes were also provided with external wall installation and render to maximise the energy savings created by solar technology. The £2M project is expected to deliver an annual energy saving of £70,000 and reduce carbon emissions by 500kg a year. Contract management, reporting and control engage at all levels with customers and the community. This means residents have a full understanding of the technology and choice, as well as the benefits it will bring. Edison also monitors energy usage after installation and liaises with tenants to help minimise power bills and energy usage.

Edison Energy, again in partnership with Trina Solar, over the next months will be installing in over 1000 homes across central and Southern Scotland.

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LOCATION

Clydebank, West Dunbartonshire, UK

SYSTEM TYPE

Residential rooftop installation

INSTALLED CAPACITY

133 x 2.75 kWp (average)

PRODUCT

TSM-PC05 245 Wp

NUMBER OF MODULES

1,500

ANNUAL ENERGY OUTPUT

195,000 kWh

COMMISSIONING

February 2013



Trina Solar Universal Module TSM-PC05

Trina Solar's PC05 module is the most versatile product in our range and is compatible with all major BOS components and system designs. Its field-proven performance has made the PC05 one of the industry's most trusted modules with more than 2GW sold across all major global markets to date. It is highly reliable due to stringent quality control well beyond certification requirements. Moreover the PC05 is certified to resist high wind and snow loads as well as ammonia and salt mist environments.