SOLAR POWER SYSTEM INSTALLATION ON VILLAS AT ONS DORP VILLAGE

16/07/2020

1. Introduction – Solar Power System Installation on Villas

Ons Dorp Trust Board recently chose Trilect Solar Ltd to install a large Solar Power System on the Care Centre to reduce electricity bills. Trilect Solar Ltd are now offering a **bulk-buy deal** to the residents at Ons Dorp to install solar panels on their Villas at a reduced cost.

2. What are the major advantages of solar energy system?

Cost Savings: Rooftop solar panels will generate power for you to use in the house, reducing the need to buy power from the power grid. The 2.6kWp system will provide approximately $600 in savings per year*

Great Investment: A Solar Power System provides an opportunity for anyone who is looking to reduce monthly electricity bills and make a low-risk investment.

Clean Renewable Energy: Solar energy is a clean, green, reliable, maintenance free and cost-effective way to generate power.

*Based on 50% self-consumption of energy and 50% export (27 cents buy rate / 8 cents export rate)

3. What does it cost to install a Solar Power System?

Trilect Solar Ltd has proposed a 2.6kWp system which uses 8 solar panels mounted on the north facing tile roof. The system has no batteries, and is connected to the grid in parallel. The system works by producing power during the day which is then used in the house and excess power is sold back to the grid.

The total price is **$6,250** (incl. GST). This includes:

- 8 x 330W JA Solar panels and a 3kW Sungrow inverter fully installed.
- Modification to switchboard to suit solar installation
- Smartphone app showing power production and energy consumption
- Approvals and certificate of compliance

Note: Price **does not include import /export meter swap** approx. $130 (charged by your current electricity provider).

4. Frequently Asked Questions (FAQ)

Q1: Are the Ons Dorp Villas suitable for a Solar Power System?

A: Yes, the steep roof angle means that there will be more solar power production in winter when it's needed most. Also, having residents home often will increase the system's financial viability due to residents using the solar power when it's available.

Q2: Are batteries included?

A: No, this system is grid connected with no batteries. Excess power is sold back to the grid (network) and power is imported from the grid at night as per usual. It is not cost effective to install batteries in most scenarios.

Q3: What are the estimated savings?

A: A 2.64kW Solar Power System installed at Ons Dorp will generate approx. 3800kWh per year. Savings depend on how much power is self-consumed at time of production and how much is exported/sold back to the electricity grid for a credit. Assuming 50% self-consumption and 50% export (likely case) then savings will be approximately $600/year based on typical energy rate usage.

Q4: What if I want a larger Solar Power System?

A: This is possible. However this needs to be confirmed on a case-by-case basis to ensure that the roof is suitable and the placement of the panels is in accordance with the Works Committee guidelines.

Q5: What are the environmental benefits of solar energy?

A: Installing a Solar Power System reduces greenhouse gas emissions, which contributes to climate change by offsetting the power generated by the coal and gas generation in New Zealand.

Q6: What happens to Excess Solar power I produce?

A: Excess solar power is exported to the electrical grid for a credit or reduction on your monthly electricity bill.

Q7: What warranties/guarantees are offered?

A: We stand by the quality of our systems and offer a 12 year product warranty for the solar panels, 5 years on the inverters and a lifetime workmanship warranty.

Q8: What happens in a black-out/powercut?

A: The Solar Power System will shut down as a safety feature to protect any repairmen who are undertaking repairs to electricity lines. Generally, in Auckland metro area, backup systems are not required and are cost prohibitive.

Q9: What maintenance is involved?

A: Little to none. The panels are self-cleaning due to Auckland's year-round rain. In some cases, excess bird droppings will be removed but generally no special cleaning is required.

5. About Trilect Solar Ltd

Founded in 1997, Trilect Electrical Services is a **large electrical service company** which is a member of the **Master Electricians** network with 30 employees and a 22-year history of customer satisfaction. With Trilect Electrical Services, Trilect Solar Ltd are members of the **Sustainable Energy Association of New Zealand (SEANZ)**.

6. How do I sign up for the Solar Power System and who do I contact?

You need to **contact Andrew Beckett**, Trilect Solar Ltd's Manager on **09 271 2493** or on his mobile at **027 571 9994** or email him at **solar@trilect.co.nz** .

To get the Solar Power System installed at your Villa **you will need to sign a contract supplied by/with Trilect Solar Ltd**.

The contract you sign is **not** with Ons Dorp and therefore **do not** contact Ons Dorp Reception or the Ons Dorp General Manager for any questions or information.

It is your choice whether you have the Solar Power System on your Villa installed or not. Through offering a Residential (Villa) Solar Power System through Trilect Solar Ltd the Ons Dorp Trust Board is setting the Village up for the future.

Andrew Beckett – Business Development Manager - Trilect Solar Ltd

Gary Williams - General Manager - Ons Dorp