



Federal Ministry
for Economic Cooperation
and Development




Launching workshop rooftop solar PV promotion in Vietnam
Cat Tuong project, Long An

25th July 2019

develoPPP.de


supported by


Project video overview

Friday, September 6, 2019

Cat Tuong rooftop project

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Cat Tuong - Company Profile

- **Vision**

"To become a leading company in the region in manufacturing & distributing green building materials. Cat Tuong works towards innovation, creativity, and application of science & technology to meet customers requirements in the best way possible."

- **Mission**

"Cat Tuong commits to deliver optimal building solutions for its customers and ideal working environment for staff. At Cat Tuong, every employee takes responsibility in helping society maximize prosperity and minimize environmental impacts."



Factory information



- 12 production lines with high throughput.
- Major market share in Vietnam
- 200 skilled staff
- Total 50,000m² land housing 12,000m² production floor, 20,000m² warehouse floor.

- ✓ Three factories, 2 in Long An and 1 in Hung Yen.
- ✓ Energy used is mainly electricity.

MOU signing



✓ Representatives from Cat Tuong, Syntegra Solar, GIZ Vietnam signed MOU

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Project quick facts

- Internal load profile: **Running 24 hours, 7days/week**
- Total electricity consumption per annual: **2,960,000 kWh/year**
- Specific energy yield: **1,448 kWh/kWp**
- Energy yield per annual: **1,230 MWh/year**
- Average electricity price: **8.2 - 8.3 US cent/kWh**
- Saving per annual: **USD 102,156,400.00**
- Project IRR: **17.8%**
- Payback period: **5.74 years**

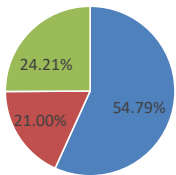
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Before & after installation PV rooftop

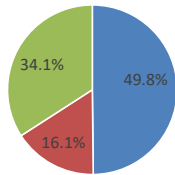
2018 Electricity consumption (kWh)



■ Normal ■ Peak ■ Off peak

✓ Total annual 6000 MWh electricity consumption at all factories.

July 2019 Electricity consumption (kWh)

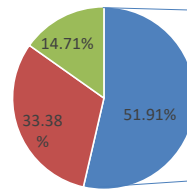


■ Normal ■ Peak ■ Off Peak

✓ Long An Factory 1 consumes around 3000 MWh per annum.

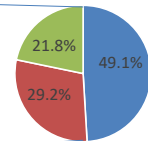
Before & after installation PV rooftop

6/2019 Grid Electricity (\$)



■ Normal ■ Peak ■ Off peak

7/2019 Grid Electricity (\$)



■ Normal ■ Peak ■ Off Peak

Reduced by 34%

✓ Around 10am – 2pm on sunny days the PV rooftop system not only reduces consumption but also feeds to grid.

Online monitoring system



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Partners



Suppliers



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Thank you!

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