

**SHIRE OAK  
INTERNATIONAL**



# PROJECTS

*in Vietnam*

SHIRE OAK  
PROJECTS

**2020**

## INTRODUCTION

Shire Oak International is a leading developer and financier of large-scale renewable energy projects in developing countries and emerging economies. Our core mission is to be a global pathfinder in devising, implementing and spreading renewable energy solutions to drive transformational change in the rate of adoption of renewable energy in the developing world.

We believe that renewable energy is at a tipping point. After decades of investment and development, solar in particular is now the cheapest and most efficient form of energy for many developing nations. These countries now have an opportunity to lead the world in the adoption and improvement of this technology, which will bolster their economies over the short and long term and position these nations as future global leaders.

In Vietnam, Shire Oak International is developing a broad portfolio of solar energy projects across the country to meet the fast-growing demand of its emerging economy. We have exclusivity agreements with three of the leading rooftop solar installation companies in Vietnam and have secured a significant pre-qualified pipeline of opportunities. The first eight projects in this portfolio are currently in operation.

### Vietnam: a sustainable energy leader

During his June 2020 visit to Shire Oak International, Gareth Ward, the British Ambassador to Vietnam, commented: "Since 1990, the UK has reduced emissions by 42% while expanding the economy by 72%. It's a stellar example that there need not be a trade-off between economic growth and sustainable energy use.

"I'm pleased to see that Vietnam has come to a similar conclusion and grown its renewable energy sector significantly since 2019.

"Vietnam is poised to be a leader of the sustainable energy transition in South East Asia. The UK, especially UK businesses in Vietnam like Shire Oak International, is committed to supporting Vietnam in addressing climate change and reaching its green energy targets." Our projects bring forth significant benefits for Vietnam and its economy. Channeling foreign direct investment, we use only local contractors to install and service our solar systems for businesses and communities in the country.

### Benefits both big and small

The benefits for individual businesses are significant, from potentially saving millions of US dollars on energy costs over the lifetime of one of our solar systems, to enhance public relations opportunities and unexpected benefits in working conditions.

One of our customers, Operations Director at BOHO Décor Nguyen Minh Hoang, explains: "Our solar system reduces our energy costs while causing no harm to the environment. We are very happy to see our electricity bills decreased by about 15%. Also, the fact that our factory's temperature during operation is lowered by 5-7 degrees Celsius pleased us greatly."

From a broader fiscal perspective, the adoption of solar energy will lower the cost of electricity across Vietnam, boosting the country's competitiveness in the export market. Moreover, through the training and development of our staff, we hope to play a role in positioning Vietnam as a world leader in solar energy.

We believe that solar energy will play a crucial role in making Vietnam's energy mix more balanced while helping to preserve the country's wonderful natural environment.

## PROJECTS PIPELINE

Shire Oak International currently has a pipeline of 720 projects in Vietnam, spanning the length of the country with a total estimated system value over USD 1.9 billion.

Our 2 offices in Ho-Chi-Minh-City and Hanoi cover all provinces, currently developing projects in 45+ provinces.

The following map gives an overview of where in Vietnam Shire Oak currently operates.



Project pipeline  
**720+**



Capacity  
**2.1 GW+**



System value  
**USD 1.9 billion**



Customers  
**in 45+ provinces**

## PROJECTS IN VIETNAM



Projects	Capacity	Commissioning
Le Tran Nhi Xuan	748.44 kWp	01/22/2020
Le Tran Hai Son	974.16 kWp	06/11/2020
Galaxy Cotton 1	426.60 kWp	02/21/2020
Galaxy Cotton 2	997.77 kWp	03/21/2020
Boho Décor	996.70 kWp	05/15/2020
Nam Le Fashion	508.95 kWp	05/30/2020
Clean Wood	760.32 kWp	08/25/2020
Viet Phu Spinning	999.68 kWp	08/25/2020



## PROJECT INFORMATION

### 1. LE TRAN FURNITURE

Le Tran Furniture specializes in the production of furniture, furnishings and other products from metal, wood, plastic (including recycled plastics) and glass. It was founded in 2001 and exports 300 40'HC shipping containers of product per month to markets including Europe and South America.

Le Tran has over 200,000 square meters of workshop area. In 2019, Shire Oak International developed solar systems on two manufacturing locations, in Hai Son Industrial Park (974.16 kWp) and Nhi Xuan Industrial Park, Ho Chi Minh City (748.44 kWp).

#### • LE TRAN NHI XUAN PROJECT

##### PV System Profile | 748.44 kWp Le Tran

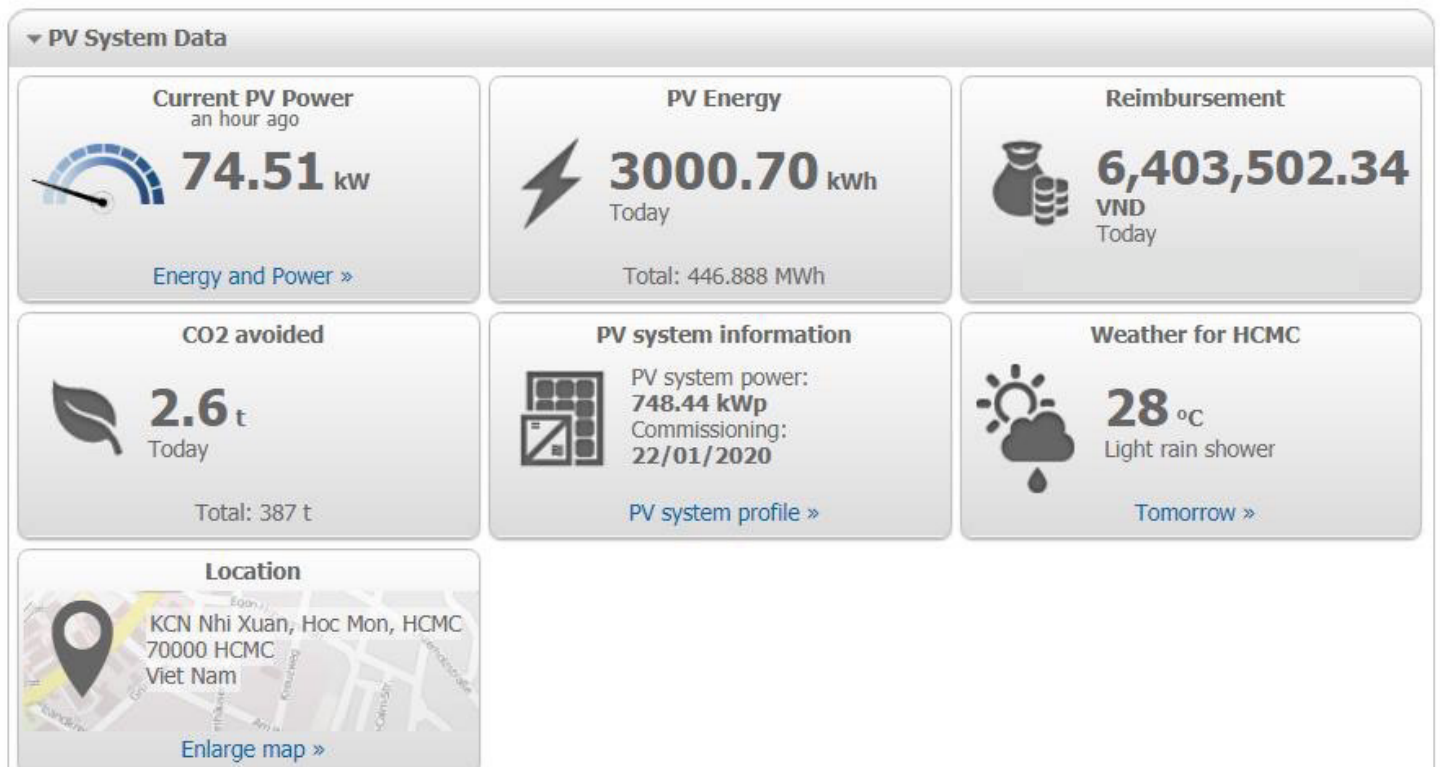
Location:	HCMC, Viet Nam
Operator:	Shire Oak International
Commissioning:	1/22/2020
<hr/>	
PV system power:	748.44 kWp
Annual Production:	approx. 1,031,350 kWh (1,378 kWh/kWp)
CO2 avoided:	Approx. 892.10 tons per annum



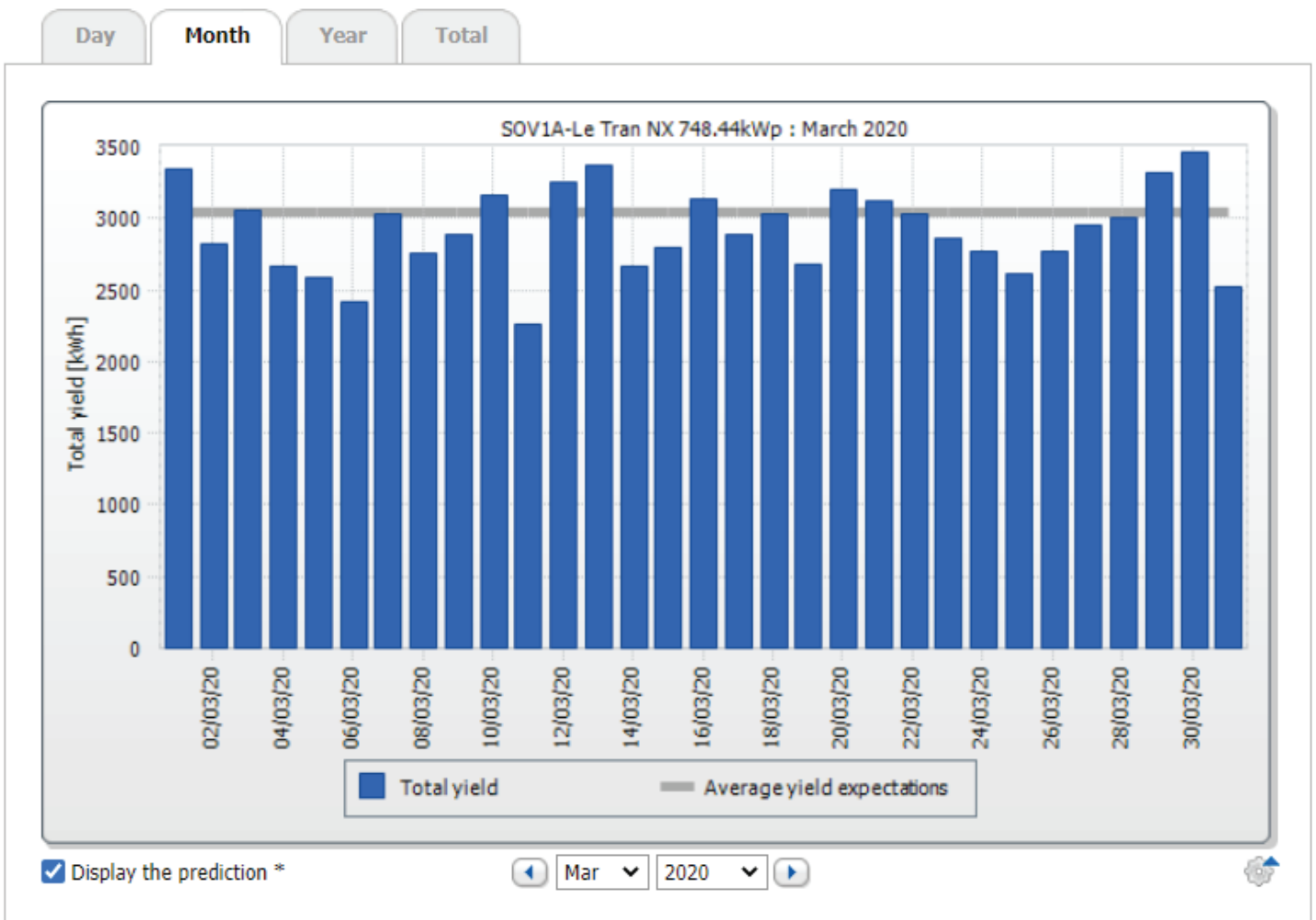


- Installation overview

## PV System Overview



- Energy and power



## PROJECT INFORMATION

### • LE TRAN HAI SON PROJECT



#### PV System Profile | 974.16 kWp Le Tran Hai Son

Location:	Long An province, Viet Nam
Operator:	Shire Oak International
Commissioning:	11/06/2020

PV system power:	974.16 kWp
Annual Production:	approx. 1,327,000 kWh (1,363 kWh/kWp)
CO2 avoided:	Approx. 1147.90 tons per annum







**SHIRE OAK**  
INTERNATIONAL

**LE TRAN HAI SON PROJECT**  
**974.16 kWp**



## 2. GALAXY COTTON



Galaxy Cotton was established in 2010, operating in trading cotton, yarn, and chemicals for the textile and garment industry. The majority (98%) of Galaxy's products are exported and 2% are sold in the domestic market. Their international markets include Korea, China, Malaysia, Philippines, Taiwan, Japan, and Latin Countries.

They have two spinning factories with more than 7,300 rotors and more than 400 employees, with a total production capacity of up to 1,000 tons per month.

In 2020, Shire Oak International developed the solar energy system for both of Galaxy's factories.

### • GALAXY COTTON 1 PROJECT

#### PV System Profile | 426.60 kWp Bong Thien Ha

<b>Location:</b>	HCMC, Viet Nam
<b>Operator:</b>	Shire Oak International
<b>Commissioning:</b>	2/21/2020

<b>PV system power:</b>	426.60 kWp
<b>Annual Production:</b>	approx. 588,879 kWh (1,392 kWh/kWp)
<b>CO2 avoided:</b>	Approx. 509.40 tons per annum



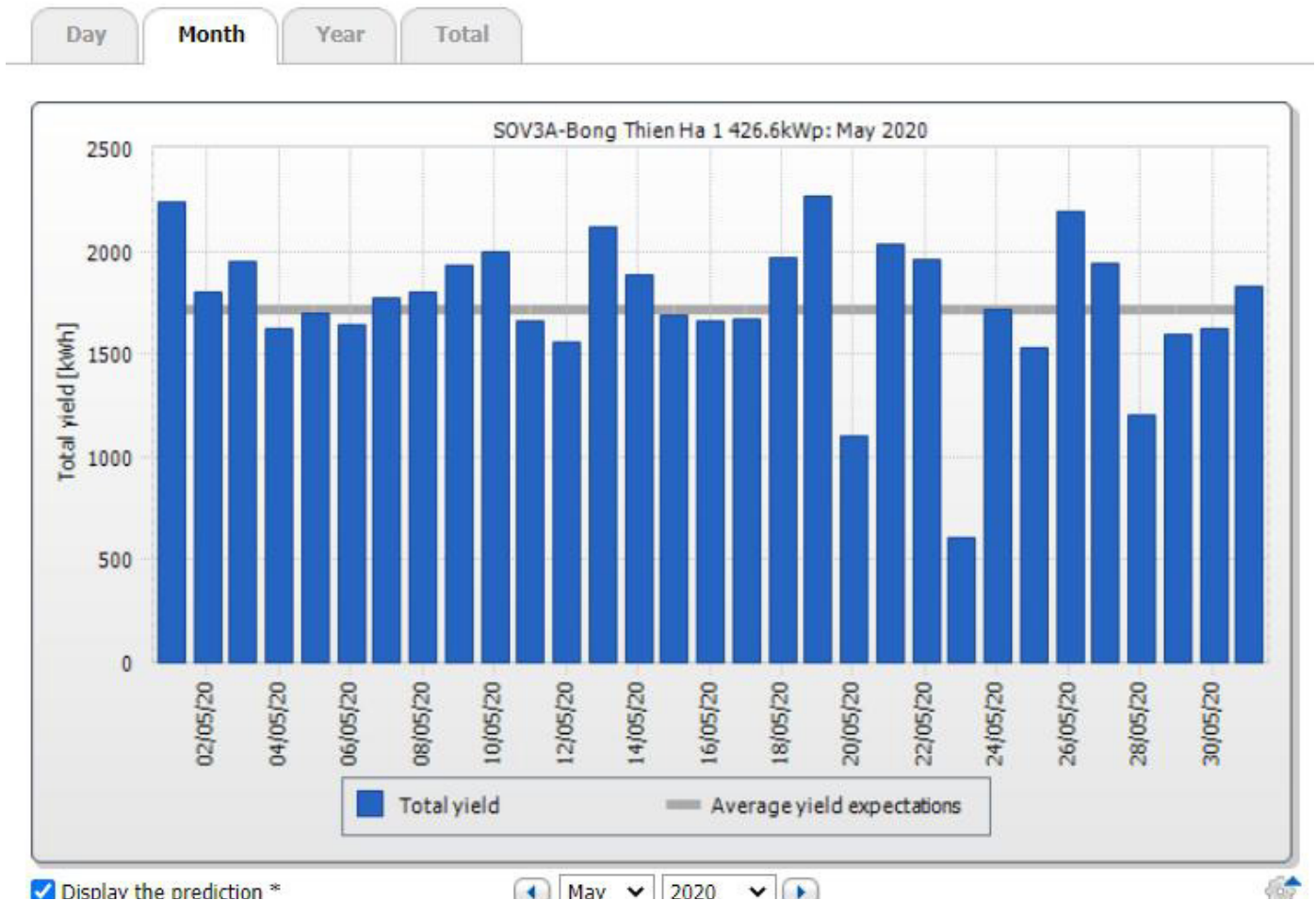


- Installation overview

## PV System Overview | SOV3A-Bong Thien Ha 1 426.6kWp



- Energy and power







## • GALAXY COTTON 2 PROJECT

### PV System Profile | 997.77 kWp Bong Thien Ha

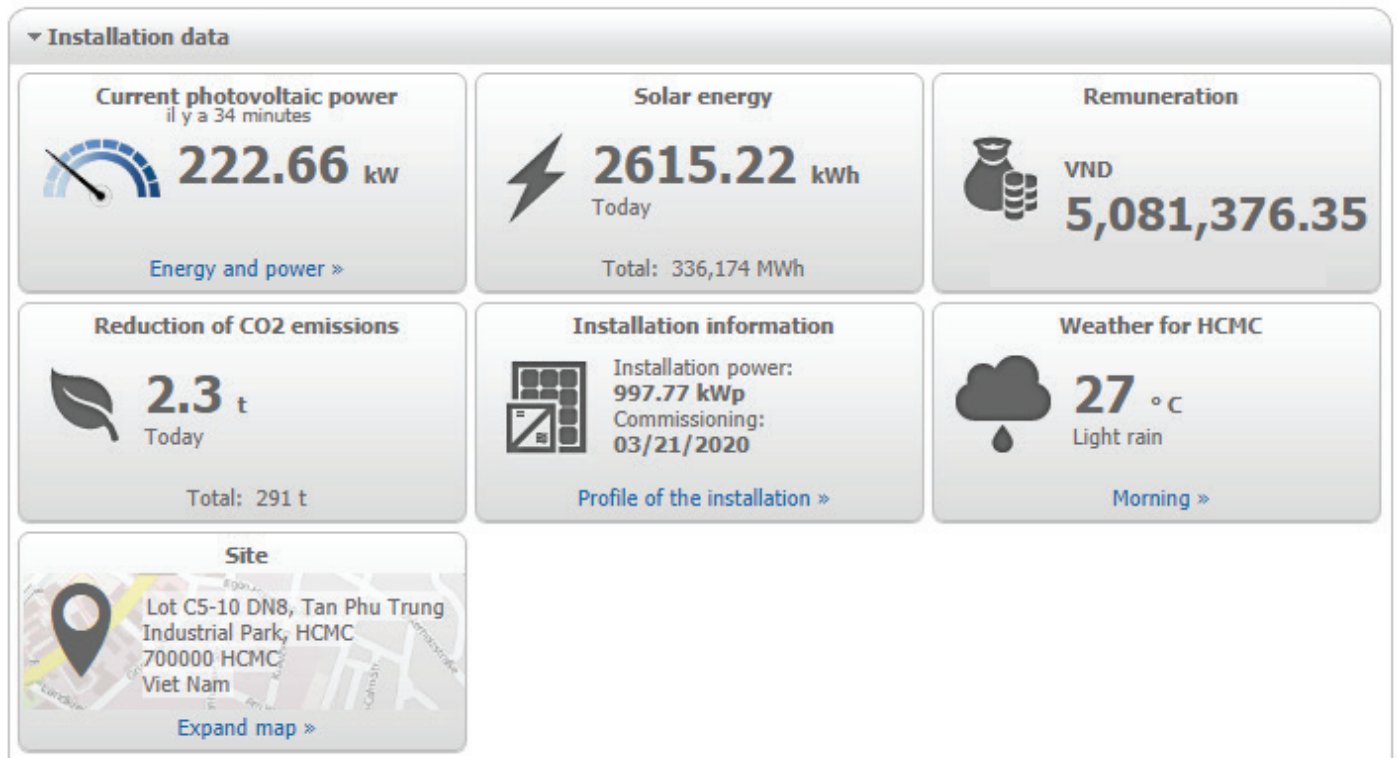
Location:	HCMC, Viet Nam
Operator:	Shire Oak International
Commissioning:	21/02/2020

PV system power:	997.77 kWp
Annual Production:	Approx. 1,390,891 kWh (1,394 kWh/kWp)
CO2 avoided:	Approx. 1,203.10 tons per annum

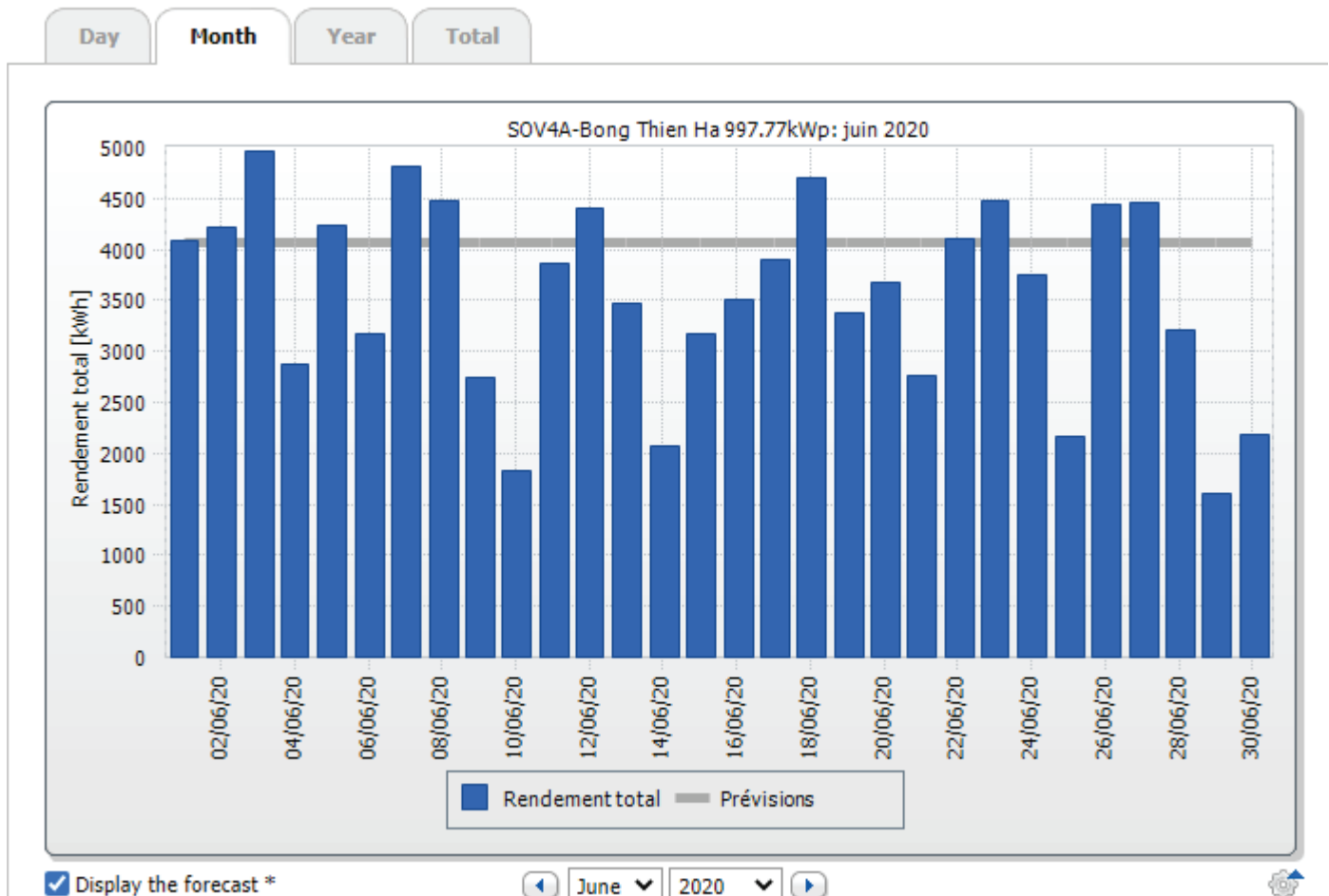




- Installation overview



- Energy and power



### 3. BOHO DÉCOR PROJECT

BOHO Décor was founded in 2015 out of a timely recognition of real-estate investors' rising demand for quality in design-and-build package services in Vietnam. Since their establishment, BOHO Décor has grown from a group of six initiators to a team of 150 aspiring members. BOHO has demonstrated an enormous capacity for growth and has gained the trust of large domestic and foreign investors through challenging Design and Construction Contracts of big projects such as the Viettel Headquarters, Ho Tram Strip, Hado Centrosa Garden and more. With the completion of the 996.70 kWp system, Boho Decor has become the first furniture marker in Vietnam to achieve the LEED Gold Certificate.



#### PV System Profile | 996.70 kWp Boho Décor

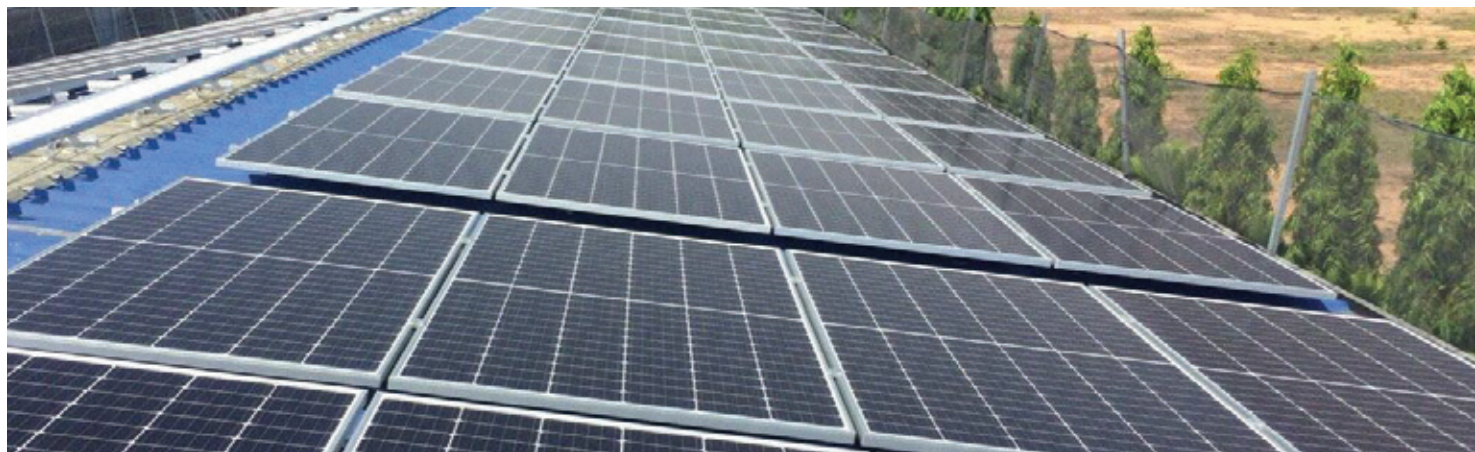
<b>Location:</b>	Long An province, Vietnam
<b>Operator:</b>	Shire Oak International
<b>Commissioning:</b>	15/05/2020

<b>PV system power:</b>	996.70 kWp
<b>Annual Production:</b>	Approx. 1,406,000 kWh (1411 kWh/kWp)
<b>CO2 avoided:</b>	Approx. 1216.19 tons per annum





## 4. NAM LE FASHION PROJECT



Nam Le Fashion Company Limited is a maker and exporter of finished garments. Founded in 2015, Nam Le Fashion has grown to a strong team of more than 350 employees. Their export markets include Russia, Germany, and Korea.

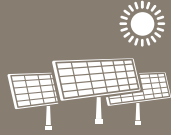
Making full use of the 3,500 sqm rooftop area, Shire Oak International developed a 508.95 kWp solar system for their industrial park in Dong Nai.



### PV System Profile | 508.95 kWp Nam Le Fashion

Location:	Dong Nai province, Vietnam
Operator:	Shire Oak International
Commissioning:	30/05/2020
PV system power:	508.95kWp
Annual Production:	Approx. 774,000 kWh (1521 kWh/kWp)
CO2 avoided:	Approx. 669.50 tons per annum



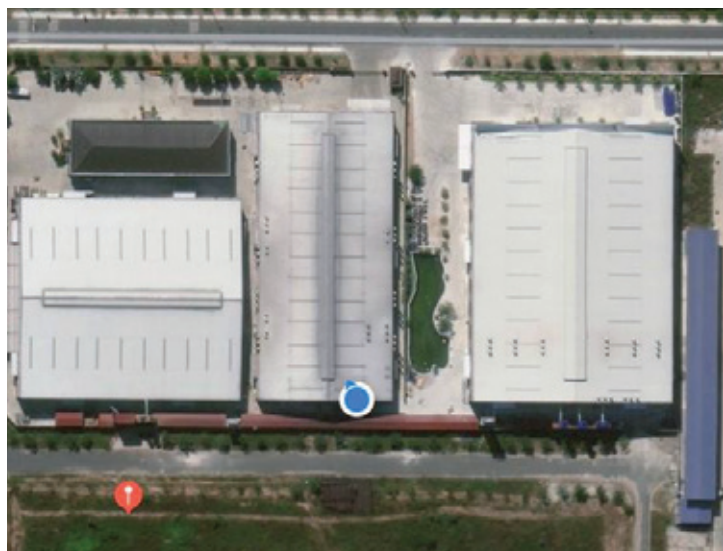
<b>Real - time</b>  <b>Generation</b>	Production Power	Daily Peak Hour	Daily Production	Monthly Production	Yearly Production
	441.54 kW	...	1.26 MWh	8.47 MWh	8.47 MWh
<b>TOTAL PRODUCTION</b> <b>44.89 MWh</b>					



## 5. CLEAN WOOD PROJECT

Clean Wood Company Limited is located in Bien Hoa, Dong Nai province, and is part of the lumber and plywood product manufacturing industry. Clean Wood Company Limited has 60 employees across all of its locations.

For Clean Wood's factory in Dong Nai, Shire Oak has planned a 760.32 kWp solar power system on the 5,500 sqm of roof area provided. Construction is currently in progress.



### PV System Profile | 760.32 kWp Clean Wood

Location:	Dong Nai province, Vietnam
Operator:	Shire Oak International
Commissioning:	25/08/2020

PV system power:	760.32 kWp
Annual Production:	Approx. 1,089,000 kWh (1,432.30 kWh/kWp)
CO2 avoided:	Approx. 942 tons per annum





## 6. VIET PHU SPINNING PROJECT



Viet Phu Fiber (VPtex) is a leading company with many years of experience in yarn production. Thanks to manufacturing advancements, new spinning technology, and imported modern equipment, the company can offer quality yarn that meet technical standards and satisfy countless customers. Aside from popular domestic use, VPtex products are well trusted by partners from Turkey, Egypt, China, Switzerland, etc. To fully supply the factory's power hungry activities, a 999.68 kWp system is now in the work.

### PV System Profile | 999.68 kWp Viet Phu Spinning

<b>Location:</b>	Long An province, Vietnam
<b>Operator:</b>	Shire Oak International
<b>Commissioning:</b>	25/08/2020

<b>PV system power:</b>	999.68 kWp
<b>Annual Production:</b>	Approx. 1,355,000 kWh (1,355 kWh/kWp)
<b>CO2 avoided:</b>	Approx. 1172.10 tons per annum





**Accelerating the global transition  
to renewable energy**

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