



EGYPT - PV | SUCCESS STORIES

2020



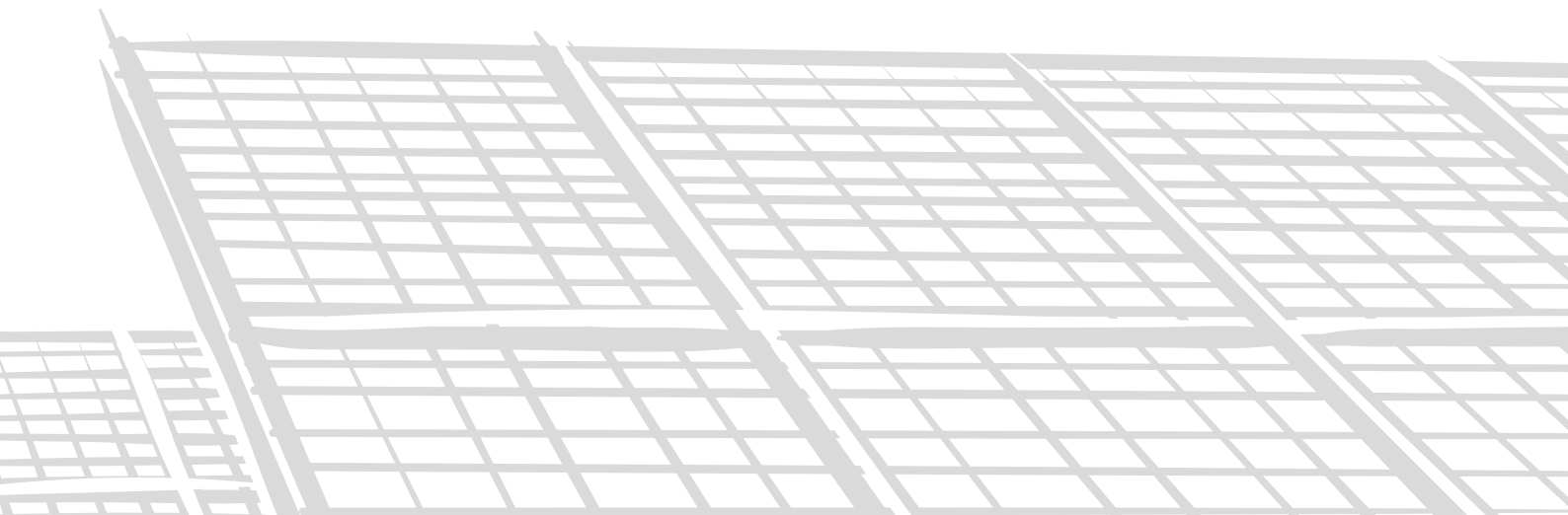


Table of Contents

- 4 مقدمة عن مشروع نظم الخلايا الشمسية الصغيرة
- 5 About Egypt-PV Project
- 6 Egypt-PV Key Figures

8 Industrial Sector Projects

- 10 Art Ceramic
- 11 Cairo Petrol
- 12 E.E.P.I (Pharco)
- 13 El Gawhara Factory
- 14 Fahim Ragab Sons
- 15 Hero Factory
- 16 Rosenberg Egypt
- 17 Sittin Group
- 18 Al Amir Feed Factory
- 19 Leoni Wiring Systems S.A.E - Nasr City Branch
- 20 Manufacturing Commercial Vehicles "MCV"
- 21 Nissan Motor Egypt
- 22 Pure Life
- 23 Rockal- Al Alamia for Rockwool Insulation
- 24 Tigerplast
- 25 Tiba Engineering Industries - El Manzalawi Group

26 Educational Services Sector Projects

- 28 Al Hayah International Academy
- 29 British School of Egypt
- 30 Tawasol for Developing Istabl Antar NGO – Kheirallah School

32

Commercial Sector Projects

- 34 Nada Center
- 35 Carrefour Madinaty Branch
- 36 Sodiq Developments
- 37 QNB Al Ahli – 6th of October branch

38

Public Sector Projects

- 40 General Authority for Educational Buildings
- 41 Housing & Building Research Center
- 42 Egyptian Engineering Syndicate - New Valley

44

Tourism Sector Projects

- 46 JW Marriott Hotel
- 47 Bayt Yakan
- 48 Steigenberger Al DAU Beach Hotel
- 49 Tropitel Hotel
- 50 Sharm Bride Hotel

52

Residential Sector Projects

- 54 El Nada Compound
- 55 Palm Hills Compound

56

Events & Training

70

Egypt-PV Structure

مقدمة عن المشروع

يعرض هذا الألبوم قصص نجاح مشروعات تركيب نظم الخلايا الشمسية حتى يونيو ٢٠٢٠ والتي تم تركيبها من خلال الدعم الفني والمالي المقدم من مشروع نظم الخلايا الشمسية الصغيرة الذي يقوم بتنفيذه البرنامج الإنمائي للأمم المتحدة بالشراكة مع مركز تحديث الصناعة و بتمويل من مرفق البيئة العالمية .

يبلغ عدد المشروعات المنفذة ٣٥ مشروع في القطاعات المستهدفة بإجمالي ١٠٩ محطة منفذة خلال عامين في ١٣ محافظة على مستوى الجمهورية بقدرة إجمالية ٨,٢ ميجاوات ووفر في الكهرباء يصل الى ١٣ جيجا وات ساعة / سنويا، وتنقسم المشروعات الى ١٦ مشروع في القطاع الصناعي، و ٦ مشروع في القطاع التجاري، و ٣ مشروعات في قطاع المباني العامة، و ٥ مشروعات في القطاع السياحي و ٣ مشروعات في قطاع الخدمات التعليمية، و مشروعين في القطاع السكني. كما يعرض هذا الألبوم أهم الفعاليات والتدريبات التي نفذها المشروع خلال عام ٢٠١٨ إلى عام ٢٠٢٠.

ويهدف المشروع أيضا إلى تطوير ودعم انتشار نظم الخلايا الشمسية الصغيرة والمتصلة بالشبكة وتركيبها بالمصانع والفنادق والمنشآت العامة والتجارية والسكنية مما سيسفر عنه تقليل إنبعاثات الغازات الدفيئة بمقدار يتراوح بين ٦,٠ إلى ٧,٠ مليون طن من مكافئ ثاني أكسيد الكربون على مدار عمر المشروع. بالإضافة إلى إنشاء مراكز لتقديم الدعم الفني والإستشارات بهدف زيادة نسبة مكون المحلي، وإعداد كوادر فنية ودعم الأسواق الناشئة لهذه التكنولوجيا في مصر مصحوبة بفرص عمل جديدة، وإزالة العوائق التي تحول دون زيادة إنتاج الطاقة بواسطة الخلايا الشمسية الصغيرة اللامركزية المتصلة بالشبكة.

About Egypt-PV Project

This album presents success stories of Solar System projects supported technically and financially by the Grid-Connected Small Scale Photovoltaic Systems "Egypt-PV", which is implemented by the United Nations Development Program (UNDP) in partnership with the Industrial Modernization Center (IMC) and funded by the Global Environment Facility (GEF).

The total number of implemented projects till June 2020 reached 35 projects across various targeted sectors. Egypt-PV successfully implemented 109 solar system plants in 13 governorates with a total capacity of 8.2 MWp, and with a total saving of electricity 13 GWh / year. It includes 16 projects in the industrial sector, 6 projects in the commercial sector, 3 projects in the public buildings sector, 5 projects in the tourism sector, 3 projects in the educational services sector and two projects in the residential sector.

In addition, this project album presents significant events and training sessions conducted by the project from 2018 till June 2020.

The project aims at the development of decentralized, grid-connected small-scale PV systems and catalyzing its installation over factories, hotels, commercial, public and residential buildings, which will result in a direct reduction in GHG equivalent to 0.6 to 0.7 million tons of CO2 emissions. In addition to establishing a one stop shop to provide technical support, with the intention of increasing PV local component, creating new employment opportunities and supporting this emergent technology and market in Egypt while removing barriers preventing from increasing power generation using decentralized grid connected small scale PV systems.

Partners



Egypt-PV key Figures



Committed to A SUSTAINABLE FUTURE



2018 Projects

- Art Ceramic
- Cairo Petrol
- E.E.P.I (Pharco)
- El Gawhara Factory
- Fahim Ragab Sons
- Hero Factory
- Rosenberg Egypt
- Sittin Group

2019 Projects


- Al Amir Feed Factory
- Leoni Wiring Systems S.A.E - Nasr City Branch
- MCV
- Nissan Motor Egypt
- Pure Life
- Rockal- Al Alamia for Rockwool Insulation
- Tigerplast

2020 Projects

- Tiba Engineering Industries - El Manzalawi Group

Industrial Sector Projects





The background image shows an industrial facility with several large, cylindrical storage tanks and a complex network of pipes and metal walkways. The scene is set against a clear blue sky, suggesting a bright, sunny day. The tanks are arranged in a row, and the piping is dense, indicating a complex industrial process.

Total Installed Capacity	5,097	kWp
Total Energy Savings	7,994	MWh/year
CO2 Reduction	4,857	tons/year
Total Investments	70,035,283	EGP
Grants	5,883,338	EGP
Lowest Price/kWp - 2018	14,200	EGP/kWp
Highest Price/kWp - 2018	18,706	EGP/kWp
Lowest Price/kWp - 2019	10,600	EGP/kWp
Highest Price/kWp - 2019	15,742	EGP/kWp

Art Ceramic سيراميك آرت



About the facility

- Established in 2010 over an area of 29,000 m².
- Production capacity 16 million m² per year with manpower of 1350 employees.
- Exporting 25% of its production.



Industrial Zone, 6th of October



Installed Capacity: **151.8 kWp**



Payback: **5.8 years** IRR: **21%**



Calculated Annual CO₂ Savings: **137 tons/year**



Solar Share of Electricity Consumption
1% which covers 50% of lighting consumption.
(= 240K EGP/year Based on the Tariff of 2018)



Energy Production: **228.27 MWh/ Year**



About the facility

- Government owned factory established in 1982.
- Operating in 2 branches: Tanta and Mostorod.
- Production capacity 7 million tons per year with a man power of 5000 employees.



Mostorod, Cairo



Installed Capacity: **70 kWp**



Payback: **6 years** IRR: **19%**



Calculated Annual CO₂ Savings: **61 tons/year**



Solar Share of Electricity Consumption:
95%
(= 110K EGP/year Based on the Tariff of 2018)



Energy Production: **105 MWh/year**

Cairo Oil Refining Company (Cairo Petrol) القاهرة لتكرير للبتروول



European Egyptian Pharmaceutical
Industries (E.E.P.I) PHARCO Corporation
المصرية الأوروبية لصناعة الأدوية (فاركو)



About the facility

- Established in 1998.
- Producing pharmaceutical products under the umbrella of PHARCO holding.



Ameriya, Alexandria



Installed Capacity: **150 kWp**



Payback: **6.2 years** IRR: **18%**



Calculated Annual CO₂ Savings: **156 tons/year**



Solar Share of Electricity Consumption
20%

(= 273K EGP Based on the Electricity Tariff of 2018)



Energy Production: **260 MWh/year**



About the facility

- Established in 1972.
- Producing aluminum kitchenware for local and international markets with a manpower of 100 employees.



Industrial Zone, Obour City



Installed Capacity: **110.4 kWp**



Payback: **6 years** IRR: **20%**



Calculated Annual CO₂ Savings: **102 tons/year**



Solar Share of Electricity Consumption:
74%
(= 184K EGP/year Based on the Tariff of 2018)



Energy Production: **175.7 MWh/year**

El Gawhara Factory

مصنع الجوهرة لصناعة الألومنيوم



Fahim Ragab Sons

مصنع فھيم رجب لطلعات المياه والصرف الصحي



About the facility

- Established in 1951 specialized in water pumps manufacturing.
- Production capacity 39 million units per year with a manpower of 120 employees.



Corniche El Nil- Shobra



Installed Capacity: **25 kWp**



Payback: **6.5 years** IRR: **18%**



Calculated Annual CO₂ Savings: **22 tons/year**

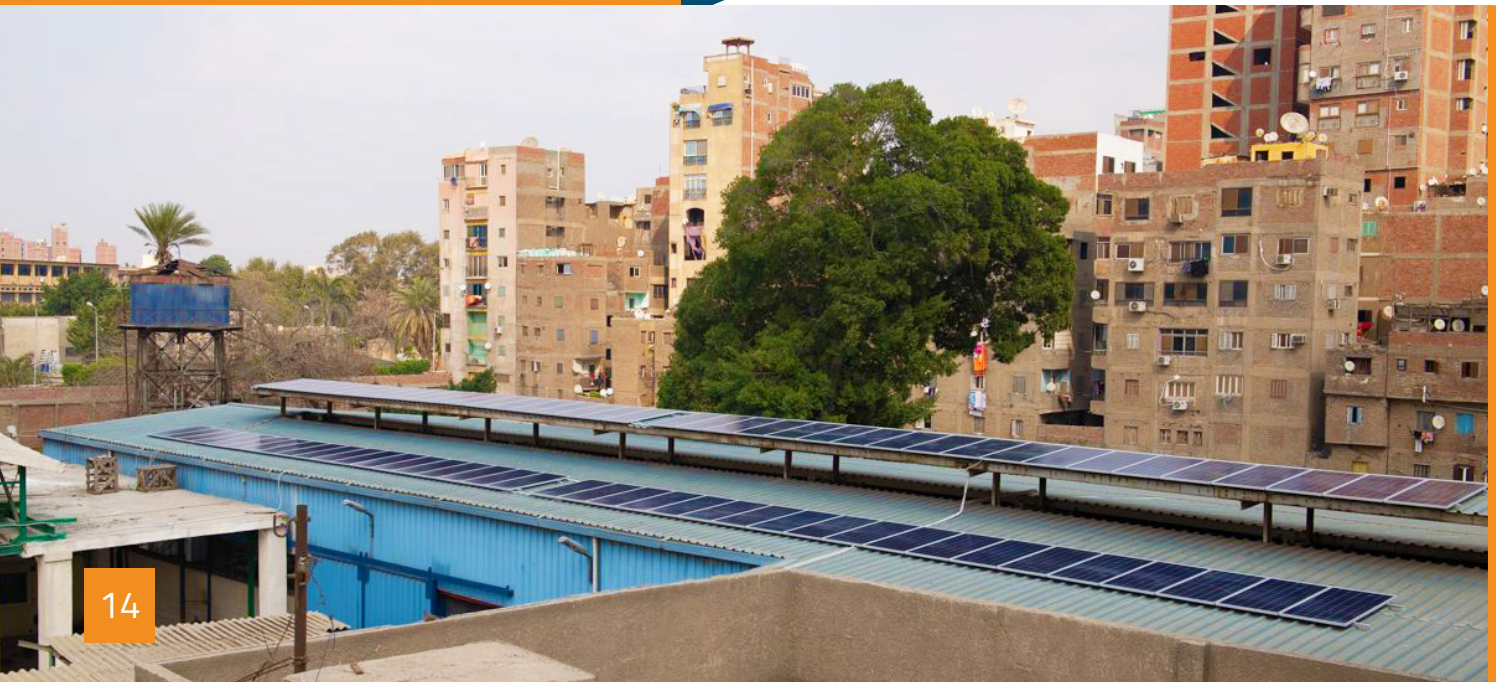


Solar Share of Electricity Consumption
72%

(= 40K EGP Based on the Electricity Tariff of 2018)



Energy Production: **37.6 MWh/year**



About the facility

- Established in 1983.
- Production capacity 30000 tons of fruit based products per year with a manpower of 800 employees.
- Exporting 40% of its production.



Toukh, El Qalyubiya



Installed Capacity: **150 kWp**



Payback: **6 years** IRR: **19%**



Calculated Annual CO₂ Savings: **136 tons/year**



Solar Share of Electricity Consumption:
6%
(= 250K EGP/year Based on the Tariff of 2018)



Energy Production: **234.2 MWh/year**

Hero Factory مصنع هيرو



Rosenberg Egypt

شركة روزنبرج ايجيبت



About the facility

- Established in 1981.
- Producing air handling units, fans and engine parts.



New Cairo, (Al Alf Masnaa', Industrial Zone)



Installed Capacity: **55.5 kWp**



Payback: **5.8 years** IRR: **20%**



Calculated Annual CO₂ Savings: **52.48 tons/year**



Solar Share of Electricity Consumption
90%
(= 92K EGP Based on the Electricity Tariff of 2018)



Energy Production: **87.46 MWh/year**



About the facility

- Established in 1976.
- Operates with 11 factories, 9 sales zones and 15 distribution centers all over Egypt.



El Marioutya



Installed Capacity: **150 kWp**



Payback: **5.4 years** IRR: **24%**



Calculated Annual CO₂ Savings: **146 tons/year**



Solar Share of Electricity Consumption:
43%
(= 265K EGP/year Based on the Tariff of 2018)



Energy Production: **252.1 MWh/year**

Sittin Group

شركة جلفكو سيتن جروب



Al Amir Feed Factory

مصنع الأمير للأعلاف



About the facility

- Established in 2004 over an area of 2,500 m²
- Specialized in manufacturing animal feed products
- Production capacity 12,000 tons per year.
- Implemented ground mounted PV System



El Minya Governorate



Installed Capacity: **156 kWp**



Payback: **6 years** IRR: **24%**



Calculated Annual CO₂ Savings: **156 tons/year**



Solar Share of Electricity Consumption
50%

(=311K EGP/year Based on the Tariff of 2019)



Energy Production: **250.9 MWh/year**



About the facility

- Established in 1997.
- Has 10 factories in Egypt with total space approx. 70,000 m² in Assiut, Badr City and Cairo with manpower of 6,700 employees.
- Produces wiring harnesses and power cables for major global vehicle manufacturers and suppliers worldwide.



Public free zone- Nasr City



Installed Capacity: **904 kWp**



Payback: **5.5 years** IRR: **22%**



Calculated Annual CO₂ Savings: **830 tons/year**



Solar Share of Electricity Consumption
27%
(= 1.6M EGP/year Based on the Tariff of 2019)



Energy Production: **1333 MWh/year**

Leoni Wiring Systems Egypt S.A.E– Nasr City Branch

مصنع ليوني – فرع مدينة نصر



Manufacturing Commercial Vehicles "MCV" شركة صناعة وسائل النقل



About the facility

- Established in 1994.
- Local manufacturer for buses and trucks with a manpower of more than 5000 employees worldwide.
- Production capacity in Egypt is 6,000 buses and 1,200 trucks a year
- Used IPP model to implement PV system.



Obour, Qalyubiya



Installed Capacity: **993 kWp**



Payback: **6 years** IRR: **21%**



Calculated Annual CO₂ Savings: **924 tons/year**



Solar Share of Electricity Consumption:
30%
(PPA)



Energy Production: **1,433 MWh/year**



About the facility

- Established in 1996.
- Egyptian branch of a Japanese automotive industry with a manpower of 800 employees.
- Specialized in local assembly of passenger cars, trucks and buses and manufacturing of automotive spare parts and accessories.
- Production capacity 25000 unit per year.



Industrial zone, 6th of October, Giza



Installed Capacity: **500 kWp**



Payback: **4.2 years** IRR: **32%**



Calculated Annual CO₂ Savings: **526 tons/year**



Solar Share of Electricity Consumption
8%
(= 1M EGP/year Based on the Tariff of 2019)



Energy Production: **844 MWh/year**

Nissan Motor Egypt نيسان موتور ايجيبت



Pure Life Factory

بيور لايف لصناعة الفلاتر الميكرونية
ومحطات التحلية



About the facility

- Established in 2014.
- Specialized local manufacturing of filters and RO systems
- Domestic production volume: 20%, Export rate 80% with a manpower of 100 employees.



Public Free Zone, Damietta



Installed Capacity: **301 kWp**



Payback: **4.2 years** IRR: **26 %**



Calculated Annual CO₂ Savings: **300 tons/year**



Solar Share of Electricity Consumption:
77%
(= 597K EGP/year Based on the Tariff of 2019)



Energy Production: **481 MWh/year**



About the facility

- Established in 2003 over an area of 25000 m².
- Specialized local manufacturing of all kinds of thermal & acoustic insulation for a variety of applications in the construction, industrial, electromechanical and HVAC.
- Annual production capacity of 15000 tons with a manpower of 600 employees.



Obour, Qalyubiya



Installed Capacity: **833 kWp**



Payback: **5 years** IRR: **23%**



Calculated Annual CO₂ Savings: **853 tons/year**



Solar Share of Electricity Consumption
98%
(=1.6M EGP/year Based on the Tariff of 2019)



Energy Production: **1,370 MWh/year**

Rockal - Al Alamia for Rockwool Insulation الشركة العالمية للصوف الصخري (روكال)



Tiger Plast Factory

مصنع النمر للبلاستيك



About the facility

- Established in 2010.
- Local Manufacturer of Plastic.
- Production capacity 1600 tons with a manpower of 30 employees.



Sohag



Installed Capacity: **50.62 kWp**



Payback: **4.6 years** IRR: **26%**



Calculated Annual CO₂ Savings: **60 tons/year**



Solar Share of Electricity Consumption:
15%
(=118K EGP/year Based on the Tariff of 2019)



Energy Production: **96 MWh/year**



About the facility

- Established in 2004.
- Manufacturer and Supplier of Air Conditioning Systems and Air Handling Units
- Tiba products are designed in compliance with international quality, performance, and safety standards set forth by different certification institutes.



10th Ramadan City - Al Sharqiya



Installed Capacity: **114 kWp**



Payback: **4.70 years** IRR: **27%**



Calculated Annual CO₂ Savings: **853 tons/year**



Solar Share of Electricity Consumption
18%
(=226K EGP/year Based on the Tariff of 2019)



Energy Production: **182 MWh/year**

**Tiba Engineering Industries
El Manzalawi Group**

شركة طيبة المنزلاوي للصناعات الهندسية



2019 Projects


- Al Hayah International Academy
- British School of Egypt

2020 Projects

- Tawasol for Developing Istabl Antar NGO– Kheirallah School



**Educational
Services
Sector Projects**



Total Installed Capacity **534** **kWp**

Total Energy Savings **863** **MWh/year**

CO2 Reduction **503** **tons/year**

Total Investments **8,365,000** **EGP**

Grants **1,573,000** **EGP**

Lowest Price/kWp **12,648** **EGP/kWp**

Highest Price/kWp **20,000** **EGP/kWp**

Al Hayah International Academy أكاديمية الحياه الدولية



About the facility

- Established in 2003 over an area of 17,000 m².
- It has 60 classes with a total number of 1293 students.
- The school has 9 buildings and installed solar systems on roof top of 7 buildings.



Fifth Settlement, New Cairo



Installed Capacity: **383.1 kWp**



Payback: **5.7 years** IRR: **22%**



Calculated Annual CO₂ Savings: **351 tons/year**



Solar Share of Electricity Consumption
28%

(= 636K EGP/year Based on the Tariff of 2018)



Energy Production: **605.790 MWh/year**



About the facility

- Established in 2010.
- It has 400 employees and 1445 students.
- The BSE campus comprises of 4 buildings: an Administration, Foundation Stage, Junior School and a Senior School.



El Sheikh Zayed



Installed Capacity: **100 kWp**



Payback: **6.8 years** IRR: **16%**



Calculated Annual CO₂ Savings: **102 tons/year**



Solar Share of Electricity Consumption:
15%
(= 185K EGP/year Based on the Tariff of 2018)



Energy Production: **176 MWh/year**

The British School of Egypt المدرسة البريطانية بمصر



Tawasol for Developing Istabl Antar NGO –Kheirallah School

جمعية تواصل لتنمية اسطبل عنتر- مدرسة
عزبة خير الله



About the facility

- Established in 2008.
- One of Tawasol NGO initiatives to provide free education to 160 children in informal settlements in old Cairo.



Al Zahraa - Old Cairo



Installed Capacity: **51 kWp**



Payback: **5.6 years** IRR: **26%**



Calculated Annual CO₂ Savings: **50 tons/year**



Solar Share of Electricity Consumption
19%

(= 100K EGP/year Based on the Tariff of 2019)



Energy Production: **30.9 MWh/year**



Strengthening local component manufacturing of PV



2018 Projects

- Nada Center
- Carrefour Madinaty Branch

2019 Projects

- Sodic Developments

2020 Projects

- QNB Al Ahli – 6th of October branch



Commercial Sector Projects



Total Installed Capacity	1,089	kWp
Total Energy Savings	1,737	MWh/year
CO2 Reduction	1,073	tons/year
Total Investments	15,821,897	EGP
Grants	1,107,270	EGP
Lowest Price/kWp - 2018	15,000	EGP/kWp
Highest Price/kWp - 2018	18,000	EGP/kWp
Lowest Price/kWp - 2019	12,010	EGP/kWp
Highest Price/kWp - 2019	18,000	EGP/kWp

Nada Center مركز الندى التجاري



About the facility

- Established in 2005 on a total area of 5,536 m2.
- Comprises of 51 units.
- Sales Revenue is 100 million EGP.



El Sheikh Zayed



Installed Capacity: **20 kWp**



Payback: **6 years** IRR: **17%**



Calculated Annual CO₂ Savings: **17 tons/year**



Solar Share of Electricity Consumption
68%
(=32K EGP/year Based on the Tariff of 2018)



Energy Production: **30.3 MWh/year**



About the facility

- Established in Egypt in 2002.
- Carrefour is one of the largest hypermarket and supermarket chains in the world
- Operates 13 hypermarkets and 31 supermarkets, employing over 5700 employees in Egypt.

Carrefour Madinaty Branch كارفور - فرع مدينتي



Madinaty City

Installed Capacity: **180 kWp**

Payback: **5.7 years** IRR: **21%**

Calculated Annual CO₂ Savings: **174 tons/year**

Solar Share of Electricity Consumption
20%
(=306K EGP/year Based on the Tariff of 2018)

Energy Production: **291.1 MWh/year**



Sodic Developments

شركة السادس من اكتوبر للتنمية والاستثمار
(سوديك)



About the facility

- Established in 1996.
- One of Egypt's real estate companies and developers of mega-urban communities.
- Developed over 7 million sqm of land and more than 3.2 million sqm of built-up areas.
- Implemented On-Grid Solar Carport



El Sheikh Zayed



Installed Capacity: **330 kWp**



Payback: **6 years** IRR: **20%**



Calculated Annual CO₂ Savings: **329 tons/year**



Solar Share of Electricity Consumption
5%

(= 654K EGP/year Based on the Tariff of 2019)



Energy Production: **528 MWh/year**



About the facility

- First Egyptian branch established in 1978.
- Provides its banking services for more than 1,193,058 clients' served by more than 6,791 banking professionals with a network of 227 branches nationwide.

QNB Al Ahli Bank – 6th October branch بنك قطر الوطني الأهلي - فرع مدينة ٦ أكتوبر



6th October City



Installed Capacity: **50 kWp**



Payback: **4.8 Years** IRR: **24%**



Calculated Annual CO₂ Savings: **51 tons/year**



Solar Share of Electricity Consumption
4%
(= 100K EGP/year Based on the Tariff of 2019)



Energy Production: **81 MWh/year**



2018 Projects


- General Authority for Educational Buildings
- Housing & Building Research Center

2019 Projects

- Egyptian Engineering Syndicate - New Valley

Public Sector Projects





Total Installed Capacity	153	kWp
Total Energy Savings	244	MWh/year
CO2 Reduction	145	tons/year
Total Investments	2,973,626	EGP
Grants	1,163,911	EGP
Lowest Price/kWp	18,500	EGP/kWp
Highest Price/kWp	22,231	EGP/kWp

General Authority for Educational Buildings الهيئة العامة للأبنية التعليمية



About the facility

- Established in 1990 with 27 branches all over Egypt.
- Issues the educational buildings' plan and the design criteria and specifications for the buildings.



Nasr City, Cairo



Installed Capacity: **15 kWp**



Payback: **6.9 years** IRR: **16.5%**



Calculated Annual CO₂ Savings: **15.8 tons/year**



Solar Share of Electricity Consumption
31%
(= 29K EGP Based on the Electricity Tariff of 2018)



Energy Production: **27.26 MWh/year**



About the facility

- A governmental research institution that is affiliated to the Ministry of Housing, Utilities and Urban communities which was established in 1954.
- Has 11 research institutes and its mandate includes issuing codes for buildings.

Dokki, Giza

Installed Capacity: **92.9 kWp**

Payback: **6.5 years** IRR: **17.5%**

Calculated Annual CO₂ Savings: **83 tons/year**

Solar Share of Electricity Consumption:
17%
(= 150.5K EGP/year Based on the Tariff of 2018)

Energy Production: **143.39 MWh/year**

Housing & Building National Research Center (HBRC) المركز القومي لبحوث الإسكان والبناء



Egyptian Engineering Syndicate - New Valley Branch نقابة المهندسين بالوادي الجديد



About the facility

- One of the 26 branches of the Egyptian Engineering Syndicate that was established in 1946.
- Aims at advancing the scientific and professional standards of engineers, developing and disseminating research and studies in the various fields of engineering.



Al Kharga – New Valley



Installed Capacity: **10 kWp**



Payback: **7 years** IRR: **21 %**



Calculated Annual CO₂ Savings: **11 tons/year**



Solar Share of Electricity Consumption:
Up to 100 %
(= 21K EGP/year Based on the Tariff of 2019)



Energy Production: **18 MWh/year**



Solar Energy for a **SUSTAINABLE FUTURE**



2018 Projects

- JW Marriott

2019 Projects


- Bayt Yakan
- Steigenberger Al DAU Beach Hotel
- Tropitel

2020 Projects

- Sharm Bride



Tourism Sector Projects



Total Installed Capacity	768	kWp
Total Energy Savings	1,353	MWh/year
CO2 Reduction	832	tons/year
Total Investments	12,482,730	EGP
Grants	2,616,945	EGP
Lowest Price/kWp	12,514	EGP/kWp
Highest Price/kWp	16,133	EGP/kWp

JW Marriott

جيه دبليو ماريوت



About the facility

- Built in 2003 as a part of the 400 acre Mirage City development including a residential compound.
- Comprises of 438 rooms, including 84 suites.
- Has 1400 employees and thousands of guests visiting the hotel.



Mirage City, First Settlement



Installed Capacity: **150 kWp**



Payback: **5.5 years** IRR: **19%**



Calculated Annual CO₂ Savings: **142 tons/year**



Solar Share of Electricity Consumption:
1% which covers 32% of lighting consumption
(= 257K EGP/year Based on the Tariff of 2018)



Energy Production: **245 MWh/year**



About the facility

- Established in the 17th Century.
- Located in one of the largest UNESCO World Heritage sites.
- It is the headquarters of Turath Conservation Group and Nile Palace Charity Foundation.
- Aims at reviving traditional crafts as a means for sustaining the local economy through heritage related activities.



Al Darb Al Ahmar - Cairo



Installed Capacity: **17 kWp**



Payback: **6.2 years** IRR: **20%**



Calculated Annual CO₂ Savings: **17 tons/year**



Solar Share of Electricity Consumption:
(= 33K EGP/year Based on the Tariff of 2019)



Energy Production: **27 MWh/year**

Bayt Yakan بيت يكان



Steigenberger Al DAU Beach - Hurghada فندق شتايجنبرجر الداو - الغردقة



About the facility

- Established in 2007.
- Comprises 372 rooms and 16 suites.
- Has 550 employees and thousands of guests visiting the hotel.



Hurghada



Installed Capacity: **150 kWp**



Payback: **5 years** IRR: **25 %**



Calculated Annual CO₂ Savings: **172 tons/year**



Solar Share of Electricity Consumption:
1%
(= 341K EGP/year Based on the Tariff of 2019)



Energy Production: **276 MWh/year**



About the facility

- Established in 2011 over an area of 58427 m². Comprises 578 guest rooms with 7 room types.
- Has 549 employees and thousands of guests visiting yearly.
- Complies with "Green Star Hotel" Program standards.

Tropitel Hotel فندق تروبيتل



Sahl Hasheesh, Hurghada



Installed Capacity: **301 kWp**



Payback: **5.5 years** IRR: **23%**



Calculated Annual CO₂ Savings: **338 tons/year**



Solar Share of Electricity Consumption:
7%
(= 672K EGP/year Based on the Tariff of 2019)



Energy Production: **542 MWh/year**



Sharm Bride Hotel فندق شارب برايڊ



About the facility

- Established in 2008.
- Comprises 127 rooms.
- Has 150 employees and thousands of visitors yearly.



Nabq Bay - Sharm El Sheikh



Installed Capacity: **150 kWp**



Payback: **5.3 Years** IRR: **24%**



Calculated Annual CO₂ Savings: **164 tons/year**



Solar Share of Electricity Consumption:
11%
(= 325K EGP/year Based on the Tariff of 2019)



Energy Production: **262.5 MWh/year**



Solar Energy, the smart way to **POWER YOUR FACILITY**



2018 Projects


- El Nada Compound - Sheikh Zayed

2019 Projects

- Palm Hills Compound – 6th of October



Residential Sector Projects



Total Installed Capacity	555	kWp
Total Energy Savings	887.9	MWh/year
CO2 Reduction	530	tons/year
Total Investments	8,846,000	EGP
Grants	2,163,096	EGP
Price/kWp - 2018	18,000	EGP/kWp
Price/kWp - 2019	12,800	EGP/kWp

El Nada Compound مجمع الندى السكني



About the facility

- A residential compound of 167 residential units, developed in 2002 over an area of 50 feddans.
- Has a commercial center; that comprises of several shops, restaurants and a bank which installed solar system.



El Sheikh Zayed



Installed Capacity: **335 kWp (5 – 10 kWp / Villa)**



Payback: **4.8 years** IRR: **21%**



Calculated Annual CO₂ Savings: **310.3 tons/year**



Solar Share of Electricity Consumption:
30 - 70 %

(= 8K-19K EGP/year Based on the Tariff of 2018)



Energy Production: **8 MWh/Year (for 5 kWp)**
16 MWh/Year (for 10 kWp)



About the facility

- An integrated residential compound by Palm Hills Developments, built across more than 2 million sqm.
- Built with a full-range of different residential units.

Palm Hills Compound مجمع بال هيلز السكني



6th of October



Installed Capacity: **220 kWp (5-10kWp/Villa)**



Payback: **4.50 years** IRR: **27%**



Calculated Annual CO₂ Savings: **219 tons/year**



Solar Share of Electricity Consumption:
40% - 90%
(= 9K-20K EGP/year Based on the Tariff of 2019)



Energy Production: **352 MWh/year**





National Project
Grid-Connected Small-Scale Photovoltaic Systems

EGYPT-PV



Events & Trainings

Egypt-PV
نظم الخلايا الشمسية الصغيرة



المشروع القومي

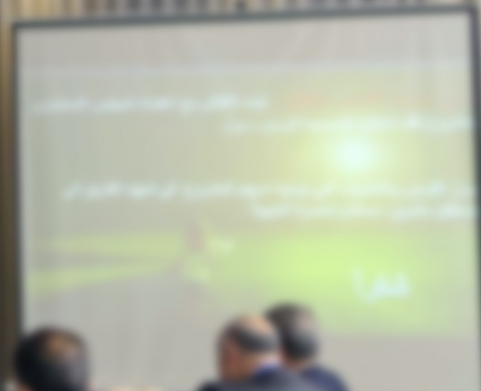
أنظمة الخلايا الشمسية الصغيرة المتصلة بالشبكة

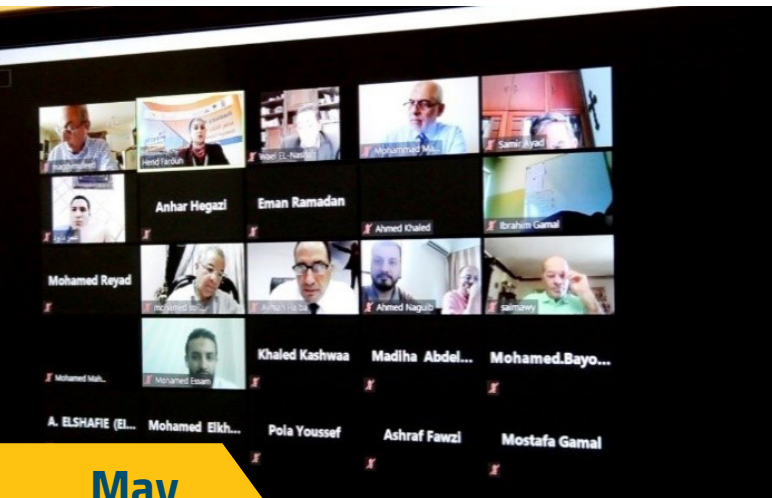


المشروع القومي
نظم الخلايا الشمسية الصغيرة
المتصلة بالشبكة

EGYPT-PV

يتم تمويل المشروع في إطار
مبادرة برنامج الأمم المتحدة الإنمائي
للتعاون التقني مع جمهورية مصر العربية
في إطار المبادرة الاستراتيجية
للمتجددات المتصلة بالشبكة
في إطار المبادرة الاستراتيجية
للمتجددات المتصلة بالشبكة
في إطار المبادرة الاستراتيجية
للمتجددات المتصلة بالشبكة





Egypt-PV webinar “Egyptian Solar Market amid COVID-19, Challenges & Opportunities” in collaboration with New & Renewable Energy Authority



Egypt-PV signing a cooperation agreement via video conference with Zagazig University with the presence of the University’s president to implement solar systems at the faculty of Engineering



**March
2020**

Egypt-PV signing a cooperation agreement with Zewail City of Science and Technology with the presence of the City's president to implement solar systems at the City.



**Nov.
2019**

Egypt-PV signing a cooperation agreement with the Association of Young Businessmen of South Port-Said with the presence of H.E Governor of Port-Said to implement solar systems in the region of 58 Factories in Port-Said.



**Oct.
2019**

Egypt-PV organizing a press conference for launching a solar system with a capacity of 150 kWp at European Egyptian Pharmaceuticals Company "Pharco".



**Oct.
2019**

Egypt-PV organizing a press conference for launching a solar system with a capacity of 383 kWp at Al Hayah International Academy.





**Aug.
2019**

Egypt-PV signing a cooperation agreement with Majid Al Futtaim for the purpose of technical support to implement solar systems at Carrefour Branches across Egypt.



**July
2019**

Egypt-PV signing a cooperation agreement with SODIC Real Estate Developer to implement an on-grid solar carport with a capacity of 330 kWp at SODIC West.



Jan
2019

Egypt-PV celebrating in the JW Marriot Hotel celebration of launching the first Solar System implemented in the tourism sector with the presence of their Excellencies Minister of Electricity and Renewable Energy, Minister of Environment, Minister of Tourism, UNDP Resident Representative and Egypt-PV Advisory Board



Oct.
2018

Egypt-PV co-organizing Egypt Renewable Energy Conference in collaboration with the New and Renewable Energy Authority (NREA) and the International Renewable Energy Agency (IRENA).



Egypt-PV organizing a workshop with Sohag, Qena & Assuit Investors Association.

**Oct.
2018**



Egypt-PV participating in World Tourism Day Celebration organized by the Green Tourism Unit and the Egyptian-German Joint Committee on Renewable Energy, Energy Efficiency (JCEE).

**Sep.
2018**



**July
2018**

Egypt-PV organizing a workshop with Federation of Egyptian Banks to disseminate energy efficiency and solar systems to the banking sector.



**July
2018**

Egypt-PV organizing a workshop with Sheikh Zayed Investors Association.



July
2018

Egypt-PV organizing a workshop about utilizing Solar Energy in Water Pumping in collaboration with the New and Renewable Energy Authority (NREA).



March
2018

Egypt-PV holding the project's first Steering Committee meeting.



Jan.
2018

Egypt-PV organizing a workshop about encouraging the use of solar energy in collaboration with the New and Renewable Energy Authority (NREA) and with the presence of H.E Minister of Electricity and Renewable Energy.



Dec.
2017

Egypt-PV holding the project's Inception workshop.



Egypt-PV signing a Memorandum of Understanding with the Egyptian Engineering Syndicate.

**Nov.
2017**



Egypt-PV holding the first focus group with PV system integrators and suppliers.



**Nov.
2017**

Trainings >>



Sep.
2019

Egypt-PV conducting a training on Solar Photovoltaic (PV) Systems Design, Installation and Maintenance for the New Valley Egyptian Engineering Syndicate members.



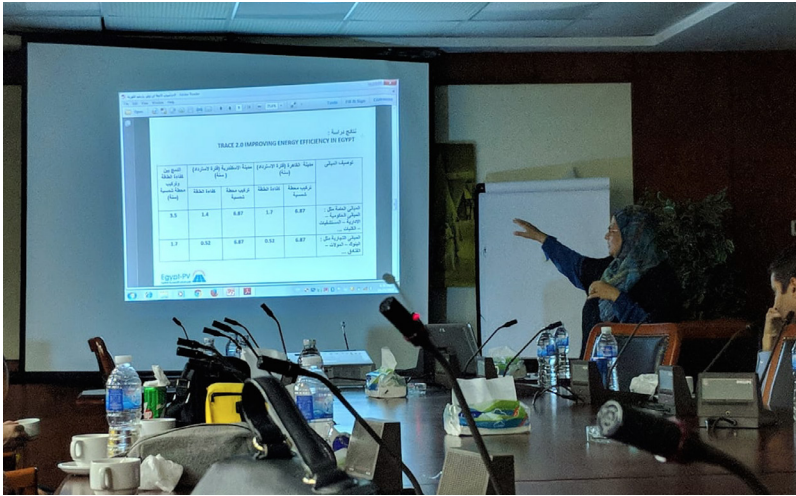
July
2019

Egypt-PV conducting a training on Solar Photovoltaic (PV) Systems for the Egyptian Engineers Society members.



July
2019

Egypt-PV conducting a training on Solar Photovoltaic (PV) Systems for the Ministry of Environment.



Egypt-PV conducting a training on Solar Photovoltaic (PV) Systems with the Federation of Egyptian Banks.

**Oct.
2018**



Egypt-PV conducting a training on Solar Photovoltaic (PV) Systems with the New Valley Engineering Syndicate in Al Dakhla and Al Kharga.

**July
2018**

Egypt-PV Structure

Steering Committee (Alphabetical order)

1. Assistant Foreign Minister and Director of the Dept. of International Cooperation
2. Assistant Resident Representative of the United Nations Development Program
3. Chairman of the New and Renewable Energy Authority
4. Chief Executive Officer, Egyptian Environmental Affairs Agency
5. Deputy Executive Director of Industrial Modernization Centre
6. Director of "RCREEE" Regional Center for Renewable Energy and Energy Efficiency
7. Executive Director of Federation of Industries
8. Executive Director of Industrial Modernization Centre (Head of the committee)
9. Executive Director of the Regulatory Authority for Electricity and Consumer Protection
10. First Undersecretary of the Ministry of Electricity and Renewable Energy

Advisory Board (Alphabetical order)



DR.
Amr Taha



DR.
Anhar Hegazy



Eng.
Ashraf Fawzy



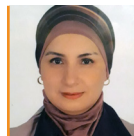
DR.
Ayman Zaki



Eng.
Emad Hassan



DR.
Hafez Salmawy



DR.
Hend Farouh



DR.
Maged Mahmoud



DR.
Mohamed Bayoumi

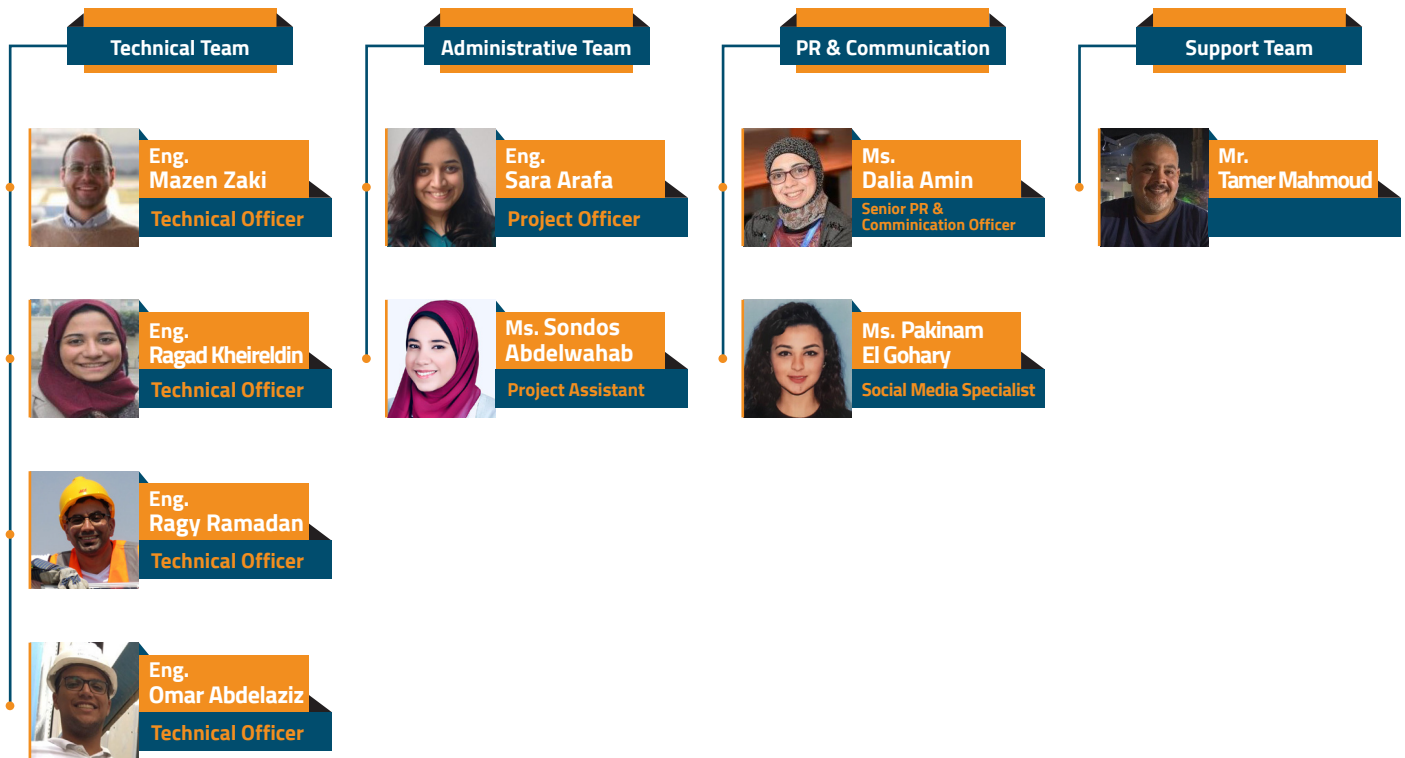


DR.
Mohamed Elkhayat



DR.
Mohamed Elsobky

Egypt-PV Team

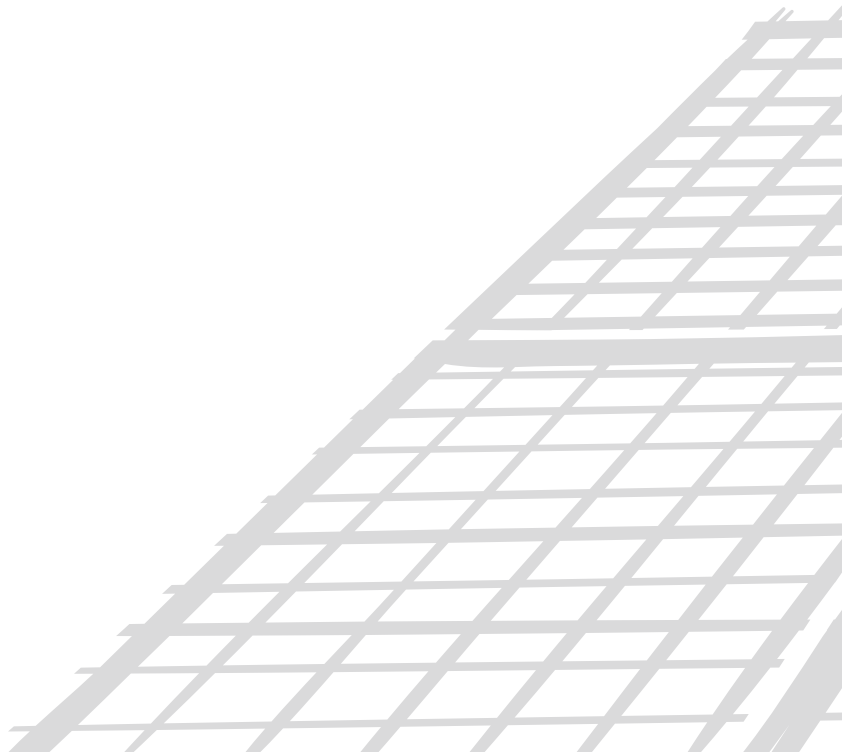




National Project
Grid Connected Small-Scale Photovoltaic Systems
"Egypt-PV"

المشروع القومي
نظم الخلايا الشمسية الصغيرة المتصلة بالشبكة







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