



# Reduce Electricity Bills

— INSTALL SOLAR —

Clean & Infinite Electricity  
Unlock Value from Unused Rooftop  
Lead Sustainability and Reduce Carbon Footprint

## Prepared for:

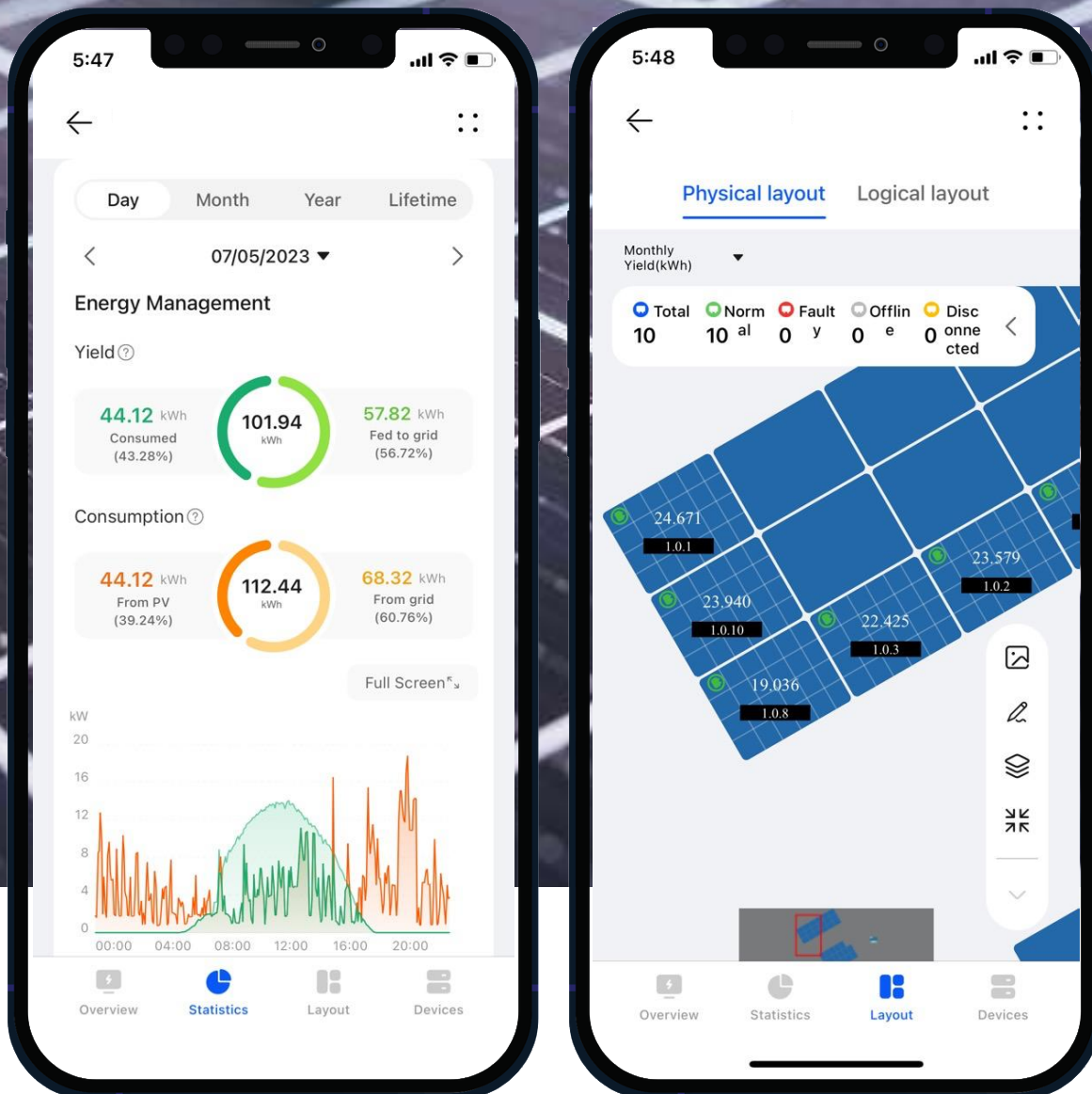
Ahmaf Alakhras  
Umm Al Sheif,  
Dubai, UAE.

**Offer Validity: 14 days**  
**Proposal date: Jan 10, 2024**

## Prepared by:

**Saurav Patel**  
**Sharaf DG - Residential Solar Energy Solutions**

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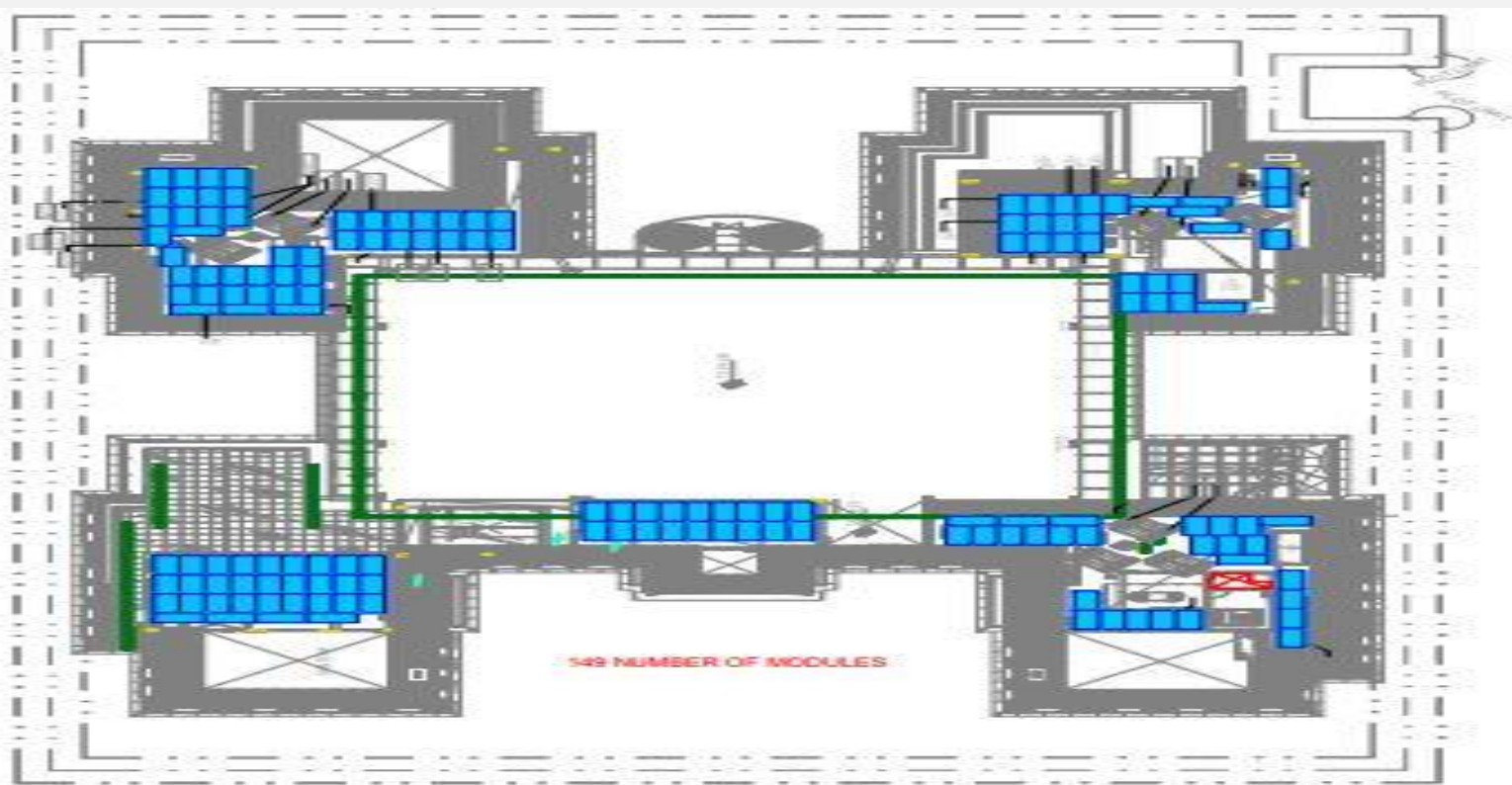
👉 Project reference: Villa at Aldea Courtyard I3, The Villa, Dubai.

House is 90% powered by Solar while remaining 10% is purchased from DEWA at the cheapest tariff slab.

**On-Grid Battery-less Solar PV System** designed and installed by Sharaf DG Energy comes along with LIVE monitoring software which shows Consumption of the house **VS** Solar Generation **VS** Excess power that is getting exported ( sold ) to the Utility Grid to precisely show you the payback on your investment and notify our Team on the need of troubleshooting or warranty replacement, if required.

Solar System in kWp or kW-DC  
**86.42 kW(DC)**

Villa is Solar-Powered by  
**98.00%**



Current Electricity Consumption  
**132,000 kWh** a year

Estimated Solar Generation  
**140,260 kWh** a year

Current Electricity Bill  
**AED 58,080** a year

Estimated New Electricity Bill  
**AED 1,348** a year

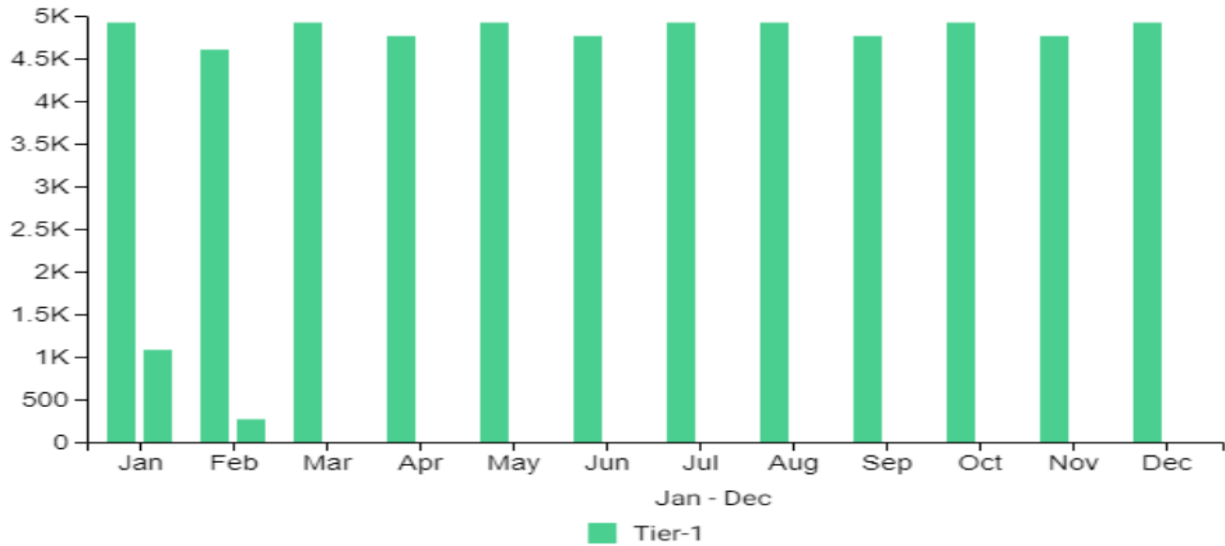
Est. Monthly Savings  
**AED 4,728**

Est. Annual Savings  
**AED 56,732**

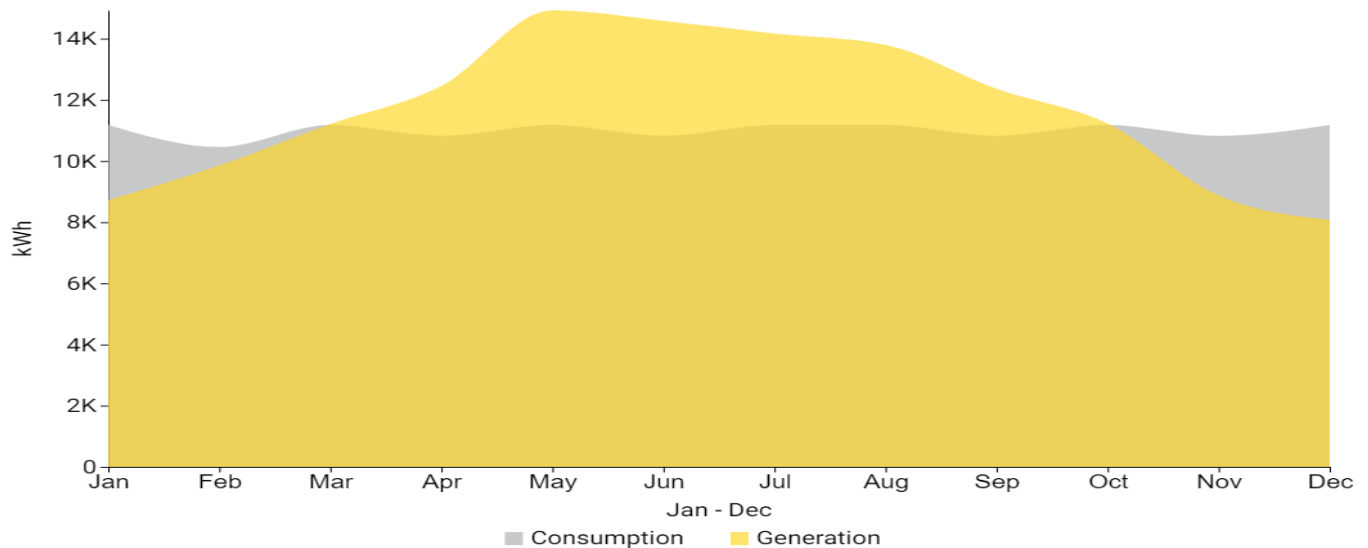
Est. 25 Year Savings  
**AED 1,705,868**

The Savings are estimated based on 0.38 AED/kWh electricity tariff of DEWA with addition of fuel surcharge of 0.06 kWh/kWh and exclusion of 5% VAT.

*Chart 1. Electricity Bill - Before VS After Solar*



*Chart 2. Annual Offset View – Consumption VS Generation*



The month-wise solar generation data is calculated using NASA irradiation data and the simulation is run via a PVSyst software. Seasonal fluctuations, transitional losses and related are accounted.

	<b>Approvals &amp; Permits</b>	<p>DEWA Solar Shams Approvals</p> <p>DEWA Inspections and Commissioning</p> <p>Municipality Approvals ( DM / DDA )</p> <p><b>Exclusion:</b> Developer's Alterations NOC</p>
	<b>Solar PV Modules</b>  Quantity: 149	<p><b>Jinko Solar R – JKM580N-72HL4-BDV, Tiger Neo</b></p> <p>Annual degradation - &lt;0.55% per annum</p> <p>Manufacturer's Product Warranty – 12 years</p> <p>Linear Performance Warranty – 30 years</p>
	<b>Solar Inverter</b>  Quantity: 2	<p><b>SUNGROW, Ongrid, Commercial - Sungrow SG40.0CX Premium Multi-MPPT String Inverter for 1000 Vdc System, Warranty: 5 years</b></p> <p>Monitoring System: Included</p>
	<p>Raised structure with painted concrete blocks for Flat Roofs.</p> <p>Long-rail water-proof solution for Tile Roofs.</p>	<p><b>Solar Mounting Structures</b></p> <p>Manufacturer's Product Warranty – 12 years</p> <p>Profile – Aluminium, 6063, T6, Anodized</p>
	<b>MDB Modification, Switchgear &amp; Interface Protection Installation</b>	<p><b>ABB / Schneider / Eaton ( Origin: Europe)</b></p> <p>Control Wiring, Relay, UVR, Earth Leakage Current Transformer, Leakage Circuit Breaker, Motorized Breaker, Shunt Trip, and related BOS</p>
	<b>Project Delivery</b>	<p>In-house Engineering</p> <p>Crane Lifting and/or Scaffolding</p> <p>In-house Logistics &amp; Warehousing</p> <p>In-house Mechanical &amp; Electrical Installation</p> <p>QHSE Components (Inverter Canopy / Protection bar / Louver Cabinet) and related</p>
	<b>Post-Sale Support</b>	<p>5-year Defect Liability Period</p> <p>In-house Monitoring &amp; Troubleshooting</p> <p>Operations &amp; Maintenance Training Session</p>

## Total Project Value

**AED 344,918** VAT Excl.



### Option 1

## Pay in Equal Monthly Installments (EMI) via a Credit Card

**AED 28,743 /month** - 12-month EMI (0% annual bank charge)

**AED 15,665 /month** - 24-month EMI (4.5% annual bank charge)

**AED 7,904 /month** – 48-month EMI (2.49% annual bank charge)

**Check Eligible Banks**

20+ Banks are eligible

### Step 1. We mutually DocuSign the Contract

Sharaf DG Energy Team sends you a formal email introducing the Team and sharing the e-copy of the Contract.

**DocuSign**

### Step 2. Delivery

Our Finance Team member arrives by your house at your preferred time. He/she hands over the hard-copy of the Contract, receipt and provides the card swipe machine. Else, online payment link can be provided.



### Step 3. Installments

**Up to 12 months of EMI**, you can break down the installments via Online Banking or by calling to your bank's Customer Care Hotline saying "I am buying a product from SharafDG and want to break it down into \_\_\_\_ (number) installments". Bank confirms and sends you SMS confirmation.

**24 and 48-month EMI** are broken down by SharafDG's Customer Care automatically within 48 hours.

**SharafDG.com**

### Option 2

## Milestone Payment Plan

**45%**

Project Initiation



**45%**

Material Delivery



**10%**

Prior to Handover

**5.9 Years**  
Payback Period

**25 Years**  
Solar System Lifetime

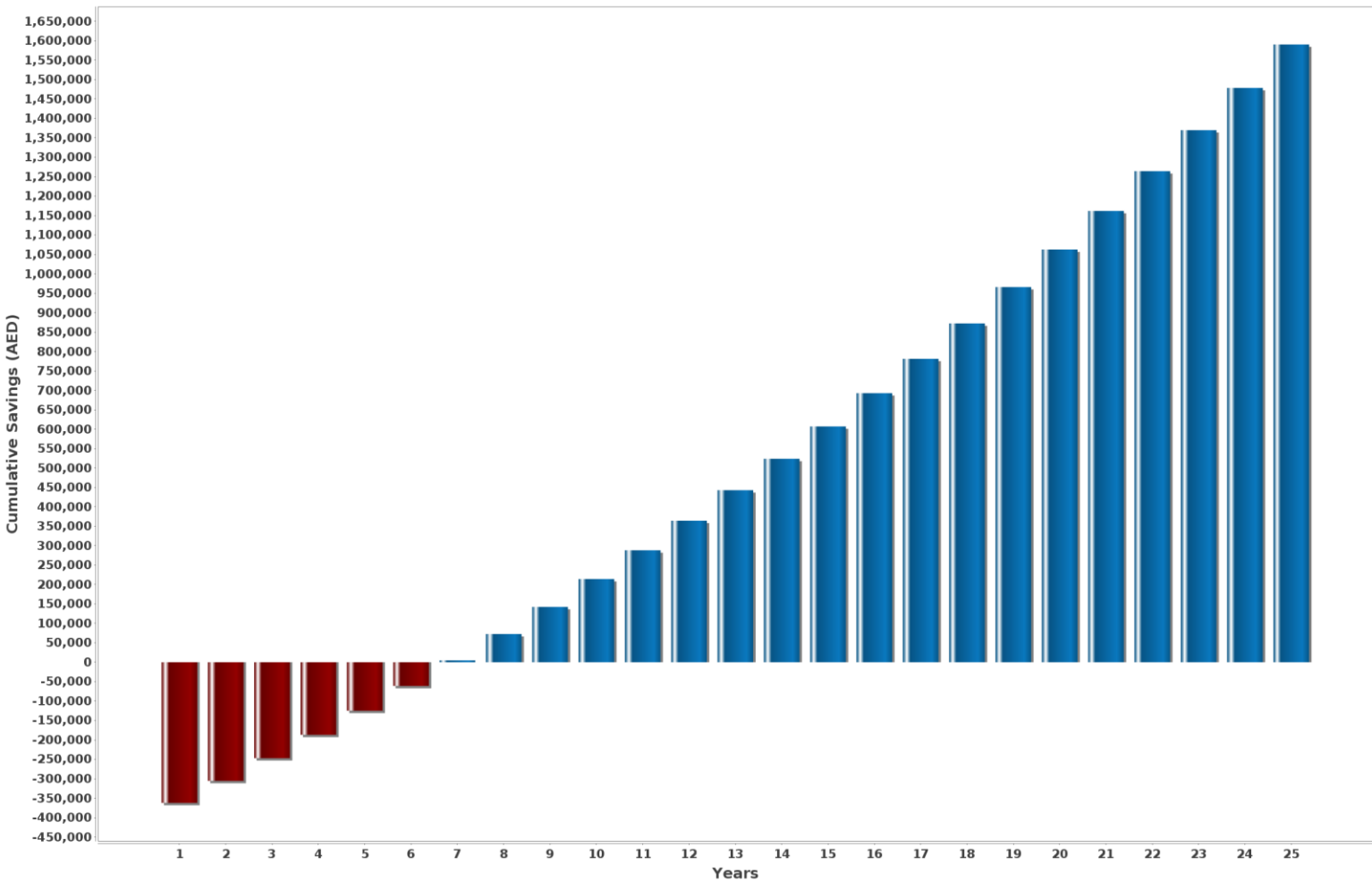
**18.16%**  
Return on Investment

**AED 4,728**  
Avr. Monthly Savings

**AED 56,732**  
Year-I Savings

**1,705,868**  
25 Year Savings

Cashflow considers 0.55% Solar Panel Performance Degradation and 3% Utility Escalator/Inflation



30 Power Warranty

$\leq 1\%$

First year degradation

$-0.4\%$

Linear degradation



Inverters

**Huawei | Sungrow**

NEW

Extended 10-year warranty for all inverters up to 20kW



Solar Switchgear

**ABB / Schneider / Eaton**

Including Interface Protection



DC Optimizer

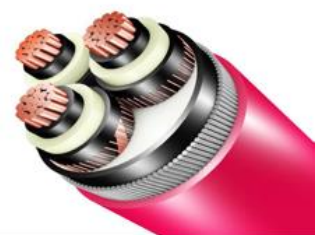
**Performance Enhancer**

Applicable in case of shading conditions and  
sets each panel to work independently  
Increase the output by 15-20%

Cables

**TUV-rated cables**

IP Rated Cables, safely enclosed in  
cable trunking



## Week 1

- Mutual Signing of EPC Solar Contract by Sharaf DG Energy
- Structural re-validation (if required)
- **The “Owner” receives DEWA copy of DocuSign Agreement**

## Week 2-4

- DEWA Design Approval application
- Request from Sharaf DG Energy to the “Owner” for provision of gate passes and Alterations NOC from Developer (if required by Developer)
- **The “Owner” receives DEWA Design submittal confirmation from DEWA E-Service**

## Week 5-6

- Mobilization of Material to the “Owner’s villa
- Mechanical Solar Installation Initiated
- **The “Owner” receives Structural Layout PDF file from Sharaf DG Energy**
- **The “Owner” can observe the Solar Racking and Hardware on the site**

## Week 7

- Walkthrough the mechanical installation with the “Owner” and aesthetic adjustments (if requested by the “Owner”)

## Week 8

- Modification of MDB/LV with a one-time power shutdown ( up to 8 hours )
- Switchgear installation
- **The “Owner” receives DEWA Design approval from DEWA E-service**

## Week 9

- Electrical installation and wiring
- **DEWA Solar Inspection(s), 2 NOS - DEWA Inspector and Sharaf DG Energy Engineering Team**

## Week 10-12

- **Two additional DEWA inspections towards Project Commissioning**
- **Solar Generation kicks-in**



# Project References

0.4 MWp DHL Express,  
DWC, Dubai



4.8 MWp Dubai  
Municipality Solar  
Carparking, Dubai



0.5MWp Dubai Civil Defence  
Solar Caparking at HO, Dubai



12 MWp RTA –11 sites  
across Dubai



0.75MWp -Meadows  
Village Mall Carparking



0.8MWp Dana Steel  
Factory



1.5MWp - Retail  
Logistics, DWC



0.5MWp - BITS Pilani  
University



DEWA G-Station, Solar  
Carparking



KEC Towers—RPG Group



Proscape Warehouse,  
Dubai



1MWp Oilfield Supply, DIC,  
Dubai



14 ENOC Petrol Stations,  
Dubai



0.5 MWp General Motors  
Warehouse, JAFZA, Dubai



12 MWp Solar Carparking  
across JLC Clusters Dubai



0.4 MWp Excellence Driving  
Center, Al Qusais, Dubai



# 200+ Commercial & Industrial Sites Completed

## 1000+ Private Villas & Townhouses Powered by Solar

ELAN Community,  
Tilal Al Ghaf



Transmeh  
Warehouse, Jabal Ali



Geoscience Testing  
Laboratory, DIC, Dubai



470 kWp Gulf Oil, JAFZA



6 Off-Grid Camps for  
Hero Group



On-Grid & Off-Grid Solar Projects

Micro-Grid Solar PV Plants across UAE

Safario Cooling Factory,  
Dubai Industrial City



10+ Villas  
at Jabel Ali Village



20+ Mansions  
at Al Meydan



10 T/houses  
at Emaar South



10+ T/houses  
at Springs



5 Mansions  
at Sobha Hartland



10+ Houses at  
La Mer & Jumeirah Bay



5 Mansions  
in Jumeirah Golf Estates



Custom Rooftop Solar  
Pergolas



# UAE's Largest Solar Residential Company

10+ Villas at Al Barari



70+ Villas  
at Meadows, Lakes, Hattan



50+ Villas & T/houses at  
Arabian Ranches 1



10+ Villas & T/houses  
at Arabian Ranches 2



20+ Villas & T/houses  
at Mudon communities



20+ Mansions  
at Emirates Hills



50+ Villas and T/houses  
at Dubai Hills



20+ Villas  
at The Villa community



10+ Villas  
at Jumeirah Islands



10+ Villas  
at Al Furjan



500 DEWA Villas  
for UAE Nationals



10+ Villas  
at Palm Jumeirah



20+ Villas & T/houses  
at Dubai Sports City



30+ Villas & T/houses  
at Green Community DIP



10+ Townhouses  
at Townsquare by Nshama



60+ Villas & T/houses  
at Damac Hills 1 & 2

