



Putting Power Back in the Hands of the People



**Renewable energy is the way forward but you might be wondering whether investing in Solar panels is the best choice for you, or perhaps you are a bit skeptical about it all...**

Is it worth the money? How will it benefit me and save me money overall? How efficient is it? Will money be spent on maintenance?

In July's roundup we will answer your questions and reassure you that becoming eco-friendly is the way to go.

**We will look at :**

**1 - The amount of money you save with Solar PV Panels**

**2 - The Distribution and Installation Process**

**3 - Solar Power in Use around the Middle East**

[Solar One in the News](#)



## Is it worth the money?

Yes it is! It's great to be energy independent. Once you install your solar panels they will last for approximately 25 years, the more you invest in panels the more money you will save.

Another reason why you would want to consider solar energy is because utility companies depend themselves on oil, coal and other fossil fuels which means utility rates are unpredictable and rise.

However, by installing Solar panels you secure yourself a low and most importantly predictable electricity cost which means that your savings can continue to grow throughout the years.

Number of Panels	System size (Watts)	Panels total price (approximate; BHD)	Energy Generated per month (Average; kWh)	Dinar Value of Energy per month	Savings per year (BHD)
8	2,000	480	289	8.381	<b>100.572</b>
16	4,000	960	578	16.762	<b>201.144</b>
20	5,000	1,200	722	20.938	<b>251.256</b>
25	6,250	1,500	903	26.187	<b>314.244</b>
50	12,500	3,000	1,807	52.403	<b>628.836</b>
100	25,000	6,000	3,614	104.806	<b>1,257.672</b>

## Will I be spending more money on maintenance?

You may be telling yourself "Well it cant be possible to save that much money. Probably a lot of money will be spent on maintenance." But that's incorrect!

The great thing about solar power systems is that they require a very small amount of maintenance so you do not have to worry about spending extra money to upkeep them.

Switching to solar power will definitely save you money. Its up to you to decide just how much you are willing to spend to save.



## We are Solar One.

We understand the value of building meaningful partnerships. We commit to meeting your distribution needs every step of the way. These can be distributed to residential, commercial or industrial solar power projects. Our panels can fit any system, and adapted to any project size.

## The Distribution Process.

As a distributor, you want to know that the product you're getting works. You also want to learn how to get it to work. Solar One will help you. You get to pass this education on to your dealer network. End users look for professional know-how. It makes a daunting task seem less so. Knowledge is power—in this case, solar power. Pass it on.

Solar One's panels are the most affordable part of the solar power system. By constructing panels locally, we keep our prices internationally competitive. They are comparable to the prices of panels from India or China, without the import cost.

Panels typically take up one third of the system cost. This leaves you the option of investing and sourcing your own ancillary equipment. Inverters, battery storage units and installation take up the lion's share of the investment. Being able to budget towards this ensures that from start to finish, your system will be the best it can be.

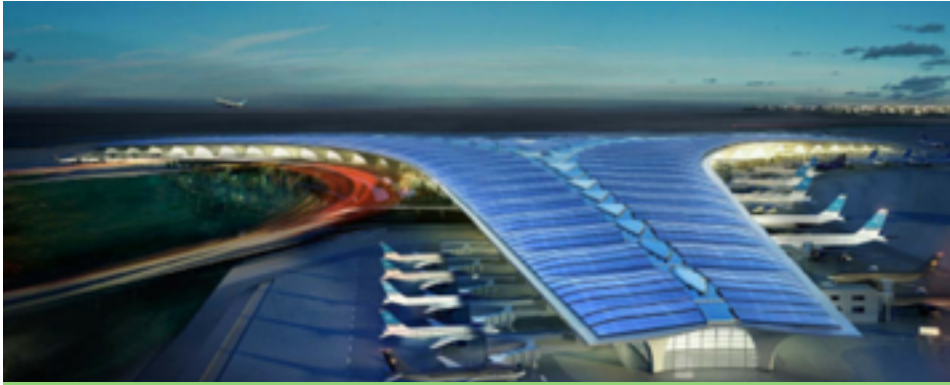
## The Installation Process.

Installation could not be easier than with our panels. We manufacture solar panels and hold them to the highest international standards. With a 25 year guarantee, these panels provide installation peace of mind!

We commit to making solar power attainable for all, and are paving the way for accessible alternative energy. With the methods we have adopted, the PV panels are manufactured in different sizes to suit different energy needs. These can range from 1 Watt to 350 Watt. 250 Watt is the standard size for the industry.

Solar One is proud of the fact that our panels are so seamless to connect. In testing, we have been able to have as many as 8 panels installed in a single day! This saves you an amazing amount of effort down the line. With effortless connection comes streamlined quality control.

We are Solar One. We strive to build distribution partnerships as strong as the panels we manufacture. Together, we can put power back into the hands of the people.



—○—  
The Middle East  
5 feats of  
SOLAR ARCHITECTURE



## **Solar Architecture is leading the way in the Middle East. This sun rich area has become a hot spot sustainable, solar design at work.**

With reports forecasting approximately 4 gigawatts of solar power projects planned across the Middle East for 2016, developers, architects and engineers are harnessing the power of solar. Sustainable Architecture is becoming the next thing to look out for, and solar is being incorporated into some amazing feats of modern architecture.

Here are 5 projects that amaze us and are true examples of the potential for more Solar Architecture in the Middle East.

### **1. Dubai Vertical Village - United Arab Emirates**

The architects at Graft Lab have created the incredible Vertical Village. This is a commercial, residential and entertainment development. The Vertical Village uses a Solar powered “skirt” to harness it’s energy.

The village’s solar roof emulates a leaf. It has “veins” which break the solar field up into serviceable units. They also transport energy back to the building. It is used to provide hot water and power for air conditioning. There is an entertainment district, with shops, cinemas and restaurants. The north strip of the development is home to hotels and residential towers. In trusted Dubai style, the Vertical Village has it all.

### **2. Al Meisan Tower - United Arab Emirates**

Also in Dubai, the Almeisan Tower is designed by architect Robert Perry. This stunning tower will provide its own energy, as well as enough energy for the rest of the Za’abeel Park! 224 heliostatic polished mirrors on the top platform track the sun. These reflect the beams of light into a central collector at the tower’s tip.

This magnified sunlight is harnessed and used to generate steam to power a turbine! Almeisan, is the Arabic name for one of the brightest stars in the Gemini constellation. It is a fitting name. The tower’s defining feature is the sunlight that beams out from its tip. A beacon for Dubai and for sustainable energy.



### 3. Kuwait International Airport

Architects at Foster + Partners have designed the new Kuwait International Airport. With this, they are aiming for the LEED Gold Sustainability Award. This amazing airport features concrete pillars that cool and protect the airport's interior. They do this by providing thermal mass. The roof is a canopy fitted with PV solar panels.

13 million passengers will flow through this airport. They will be able to see sustainability implemented with style and grace. Initial designs call for 3 wings of the airport, each a mile long. They connect with a grand 82 foot dome. There will even be cooling waterfalls by the baggage claim! There is flexibility in the design for large scale expansion. In the future, Kuwait International Airport will be able to accommodate 50 million passengers.

### 4. King Abdullah University of Science and Technology - Kingdom of Saudi Arabia

King Abdullah University of Science and Technology in Jeddah features two solar towers. These use the sun and prevailing winds to create a passive pressure difference. This keeps a continuous breeze blowing across the shaded courtyards. The towers feature two "skins". The outer is completely transparent.

This allows the maximum amount of sunlight to pass through to the inner "skin". The inner skin consists of a highly absorbent tinted glass. This gathers up solar energy and maximizes hot air in the tower. As hot air rises, it exits the top of the tower. This is then replaced with cooler air from the courtyard.

This technology keeps the campus courtyard comfortable and cool for more than 75% of the year. The roof of the KAUST building has been designed to incorporate solar panels. These work to provide the entire campus with power and hot water on demand. An amazing example of solar energy at work.

### 5. ABC Achrafieh Mall - Lebanon

The ABC Achrafieh Mall in Beirut is paving the way for sustainability. They installed the largest solar PV plant in Lebanon on its rooftop. This covers up to 4000 square meters and can power the ABC department store. This is equal to supplying 500 houses with power. This is an incredible way for a busy mall to cut down on the need for electricity. At the same time, harnessing the sun's renewable energy. We consider this a true pioneering approach to sustainable architecture and power saving at a time where an uninterrupted source of electricity and power are a luxury in Lebanon.

Architectural projects like these are why Solar One came to being. We believe that sustainable architecture and specifically harnessing Solar Power is no longer a hope in the future but is very much our present.

By manufacturing these panels locally right here in Bahrain, and competing with international prices, we will soon see Bahrain and more Middle East Projects on other lists of Sustainable Architecture.

If you wish to incorporate solar panels in your large or small architectural designs, keep an eye out for our distributors and contact us today.

**To stay updated with the latest news in Solar Power and to join the Solar Energy conversation around the Middle East follow us**

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