



Putting Power Back in the Hands of the People



Hello, we are Solar One. We are Bahrain's FIRST Solar Panel manufacturing facility.

When it comes to energy, our near constant sunny days are our biggest renewable asset. Our vision is to lead the way in the renewable energy industry in Bahrain, and help steer the country towards meeting and exceeding its climate goals. We plan to use our environment to our advantage.

Our facility's manufacturing capacity is 60,000 panels per year. This is equal to producing 15 MegaWatts of power. Our prices are comparable to those available in China or India, without the import cost.

By applying our knowledge, our Bahraini workforce will run our solar panel production facility. Bahrainis at home or at work will benefit from it. From Bahrain, for Bahrain.

Our mission is to produce high quality solar panels using state of the art technology. To provide clean, free energy for everyone. Bahrain is one of the most sun-rich areas on our planet.

Our vision is to lead the way in the renewable energy industry in Bahrain, and help steer the country towards meeting and exceeding its climate goals. We will use solar energy to power local homes and businesses while helping the planet. A clean, renewable and sustainable energy alternative.

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Solar One

THE FIRST SOLAR PANEL MANUFACTURING FACILITY IN **BAHRAIN**

We are local. We are a Bahraini borne, Bahraini run company. We bring what we have learnt during state of the art, rigorous training from our friends in Italy to our home. We hold our facility and machinery to international standards. With worldwide expertise coming to Bahrain, sustainable reliability is our defined outlook. By applying our knowledge, our Bahraini workforce will run our solar panel manufacturing facility. Bahrainis at home and at work will benefit from it.

From Bahrain, for Bahrain.

Renewable energy is an industry in its infancy in the region. The Middle East is an area that is traditionally reliant on oil and natural gas for power. But, oil and gas are non-renewable. Once we run out, that's it. A huge benefit of solar energy is that it is renewable – as long as we are orbiting the sun, we can make use of its energy. Another advantage is that solar energy is clean. No drilling, fracking or mining has to take place to make use of it.

By using solar energy we are drastically reducing Bahrain's carbon footprint. We estimate that with our solar panel manufacturing efforts, we are eliminating 20,000 tonnes of carbon per year, the same as taking 4,400 cars off the road.

We are able to make panels of different sizes to suit different energy needs. Panel sizes range from 1 Watt to 350 Watt, 250 Watt is the standard size for the industry.

Being able to tailor make panels makes Solar One adaptable to your unique energy needs. Solar One is positioned to anticipate and facilitate a shift towards renewable energy.

After the utilities subsidy in Bahrain lifts, the proposed rate of energy will be 28 fils per kWh. At this rate, if you install just 8 solar panels onto a building, you stand to save around 8 dinars per month. This totals approximately 100BD per year!

We are Solar One. We are Bahrain's first solar panel production facility. We help you to take solar energy and turn it into clean, renewable power for your homes and businesses. We are **Solar One** and ***we are putting power back in the hands of the people.***



SOLAR

IS THE ANSWER!

The sun is like a giant power plant in the sky, bathing the earth in energy on a constant basis while we're in orbit. In Bahrain, we enjoy 8 months on average of sunny days. Our natural solar power plant is running at full capacity for most of the year. Plants convert the sun's rays into energy through photosynthesis. Likewise, we can convert solar power into electricity through the use of solar panels.

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You can think of solar panels like the leaves on a plant. They draw in the sun's energy, and convert this energy into a form we can use – **electricity**. The more efficient your panel, the more energy they absorb. At Solar One, we take pride in producing the highest efficiency panels available. Converting the sun's energy to electricity is a simple process. A circuit connected to the panels are able to generate a current out of solar energy for use as electricity. Batteries store the power collected by the panels. The more you store, the more you can use on the (rare) cases that there is no sun. The huge supply of Bahraini sunshine means a huge supply of solar energy. You can use this energy year round.

The regulator is the brain of your system. This controls how much your batteries can charge. When the batteries reach their optimum storage limit, the regulator stops power coming in. This prevents the batteries from overloading. Finally, the inverter converts your energy to voltage that is suitable to use in your home. Solar cells generate energy as a direct current (DC). However, most household appliances run on alternate current (AC). Direct current runs from the solar cells to the inverter. This converts the energy to alternate current for use in most homes.

This simple process benefits everyone, from you —the consumer —to our planet as a whole. Solar power generates renewable energy from a natural resource. We harness the Sun's power without hurting the earth. No emissions are created from the electricity production of panels. This reduces your carbon footprint and is non-pollutive. Solar panels are durable. With proper installation and minimal upkeep needed, they can last up to 25 years! A natural by product of using renewable energy is that it makes you much more energy aware. Using natural processes to generate energy leads to a greener outlook. This green outlook also translates to a more economical perspective.

The transition is easy. You can buy a smaller system and then build on it as you move away from non-renewable energy to a solar powered home.

The power is in your hands.



10 interesting facts about Solar PV

- 1 Solar One will produce 60,000 panels from the first year of operation.
- 2 Solar One is the first Solar Photo Voltaic Panel manufacturer in Bahrain and the GCC
- 3 Getting solar panels installed on your home can take just one day.
- 4 About two-thirds of the global solar PV capacity has been installed in the last 2.5 years – in 2002 it was just 2.2GW – but is now in excess of 140GW.
- 5 The average cost of a solar panel in 1977 was \$76.67/watt, while in 2013 this was just \$0.698/watt – which in simple terms means that solar panels are now about 100 times cheaper than they were 35 years ago. This is making the cost of generating electricity from solar comparable with fossil fuels in some places.
- 6 Enough Sunlight falls on the earth every hour to meet the world's energy demand for a whole year!
- 7 An average 3kW system consists of 12 solar photovoltaic panels, requiring approximately 21m² of space. A system of this size would produce 2550Wh of electricity annually which is about half of an average household's electricity requirements.
- 8 This does not take into account the fact you no longer need to buy the electricity from the government.
- 9 When most people talk about solar panels they are referring to solar PV panels that produce electricity; however, there are panels that produce just hot water – these are known as solar thermal panels.
- 10 A 4kW can be installed for approx. BD960 only and the financial returns are estimated to be in excess of BD200 annually.

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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