



EMCO Ltd - Fatehpur, Gujarat, Capacity: 5,000 kWp

### ADVANTAGES

- ▶ One time Capital Expenditure with negligible recurring expenses as no raw material cost.
- ▶ Adds to cause of Green and Sustainable world.
- ▶ Match of Generation and Consumption: Use at the point of Generation (Day Time Use).
- ▶ Create awareness about renewable sources of energy.
- ▶ Levelised Price lower than price of Grid fed electricity.
- ▶ Constant Tariff for 25 years.
- ▶ Can cater to part requirement and can be done in phases.
- ▶ Possibility of availing Carbon Credits as additional revenue.



### WHY SOLAR?

#### BENEFITS

- ✓ Perennial, abundant and ever lasting source of energy
- ✓ Clean Source, eliminating use of diesel generators and causes no noise and air pollution.
- ✓ Complete Independence from erratic Utility Power.
- ✓ Modular and Scalable designs.
- ✓ Versatility and flexibility in designs enabling small to large scale application; e.g. Rural Household to Large Scale Solar Power Generation Plants/ Farms.
- ✓ Solar Systems can be ground mounted as well as roof mounted.
- ✓ Energy Storage with lesser losses possible.
- ✓ One time fixed Cost for life.
- ✓ Solar energy systems are virtually maintenance free.
- ✓ Photovoltaic technology is proven, reliable, and has no moving parts.
- ✓ Solar Modules have come with a 20 to 25 year power warranty.



### WIND TURBINES

Wind is free, clean, readily available, powerful and last but not the least, renewable. Our ancestors had known the seamless power of wind. For ages the wind has been the mainstay of energy produced. Be it sailing boats in sea, pumping water or grinding of seeds in the field, wind's energy has been used efficiently and effectively by them.

Wind turbines generate electricity by converting the kinetic energy of air into mechanical energy, thus producing electricity that can not only light up homes but can be used for generating electricity for the whole city!

Maxwell manufactures a range of small wind turbines rated at 600W, 800W, 1kW and 3.5kW, all of which feature robust turbine construction and unique engineering solutions. The Maxwell range of turbines is the choice for telecommunications, off grid, grid connected, water pumping and hybrid solutions.

Maxwell turnkey renewable energy solutions, integrate solar, wind and other technology to provide optimum renewable energy solutions.



#### WIND TURBINES FOR HOME OWNERS

Wind turbines can be installed on roof-tops of high-rise buildings to get the most out of wind mills and produce energy efficiently. Wind Mills should be installed in areas with high circulation of winds with speed in between 40 m/s (144 km/h, 89 MPH) to 72 m/s (259 km/h, 161 MPH) for commercial generation of electricity.



#### WIND TURBINES FOR REAL ESTATE DEVELOPERS

To get the most out of wind mills and produce energy efficiently, Wind Mills should be installed in areas with high circulation of winds with speed in between 40 m/s (144 km/h, 89 MPH) to 72 m/s (259 km/h, 161 MPH) for commercial generation of electricity. Wind turbines can be installed on roof-tops of high-rise buildings.



#### WIND TURBINES FOR BUSINESS

Wind turbines are the best suited option for Farm Houses, Industries with big open space with good circulation of winds. India, although a relative newcomer to the wind industry compared with Denmark or the United States, India has the fifth largest installed wind power capacity in the world. In 2009-10 India's growth rate was highest among the other top four countries. It shows the bend towards wind energy by Corporate and Businesses as it reduces the high commercial energy costs by 70-80%.



#### WIND TURBINES FOR SCHOOL & EDUCATIONAL INSTITUTE

In India, Wind Energy is the other viable option for Schools and Educational institutes as they consist of big open space. They are quite cost effective in long run and can recover its cost over the time in reduced electricity bills. Wind mills is very good option in the absence of sun light to provide clean electricity.



#### MAXWELL Solar and Wind Energy Pvt. Ltd.

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We deserve to live in a Better World!

#### ABOUT US

- ▶ Site Assessment
- ▶ Concept Design
- ▶ Technology Selection
- ▶ Financial Analysis
- ▶ Project Management
- ▶ Detailed Engineering
- ▶ Site Development
- ▶ Procurement
- ▶ Installation & Commissioning
- ▶ Supervision
- ▶ Maintenance





Power and Energy are the quintessential elements of everything we do and as global citizens and especially citizens of India we are everyday facing the realities and challenges of sustained, feasible & affordable energy solutions.

At Maxwell, we came together with one central belief. We wanted to eliminate the uncertainty when it came to energy needs of our clients.

After careful research and the combined knowledge and experience of our core management and advisory team we zeroed in on Solar Energy solutions as the best way to achieve this goal.

Through all our solutions we fulfill one single mission - To make our clients self sufficient in their energy needs

For this we focus on three things:

- ✓ To create uninterrupted power supply that is independent of conventional power supply
- ✓ To deliver on highest quality of design and materials for a long lasting, maintenance free experience

✓ To, above all, ensure cost efficiency by way of optimized design, sourcing and facilitation of available government assistance.

We have continued to take great strides towards our mission successfully delivering strong, sustainable Solar solutions for a diverse range of clients across scale, industry, geography, requirements, investment potential.

**Arif Petiwala**

Director (Maxwell Solar & Wind Energy Pvt. Ltd.)

- ▶ Maxwell has immense local experience and has developed a 5 MWp Solar PV Power Plant for EMCO Ltd., at Fatehpur, Surendranagar, Gujarat under the Gujarat Solar Policy
- ▶ Dedicated team for Design Engineering, Site Development, Installation & Commissioning
- ▶ Experienced Supervisory & Construction Team
- ▶ Specializes in Conceptualization of Solar PV Projects & Applications
- ▶ Developing Solar Architecture and Designs
- ▶ Experienced in Designing Solutions on all Solar Technologies
- ▶ Accredited Channel Partner of the Ministry Of New & Renewable Energy, New Delhi for accessing Capital Subsidy under the Jawaharlal Nehru National Solar Mission of the Government of India
- ▶ Clientele includes reputed government and private companies like Haffkine Institute of Research, Testing and Training, University of Mumbai, Tilaknagar Industries Ltd., R.M. Mohite Textiles Ltd.
- ▶ Experienced Professionals from the Energy Sector as part of core team

## Why MAXWELL Solutions?

- ✓ **Awareness** - We educate our clients on how they can leverage solar energy
- ✓ **Concept design** - We study our client needs & their site to create a feasible system concept for solar power usage
- ✓ **Technology Identification** - We choose the best technology system for delivering maximum value
- ✓ **Energy Management** - We study the current power system & recommend changes to create efficient energy usage without wastage
- ✓ **Tendering Facilitation** - We develop a RFP document & advice our clients in vendor selection
- ✓ **Project Management** - We supervise installation & commissioning to ensure fidelity to design
- ✓ **Quality** - We conduct launch test & post launch audits
- ✓ **Sustenance** - We provide active maintenance advisory & training



### MAXWELL OFF GRID

solutions are used to harness solar power in remote areas not on the utility grid. This solutions is especially useful in rural & remote India where availability of grid power is scarce.

Using off grid solar power is generated and stored in batteries for use as needed throughout the day.



### MAXWELL ON GRID

solutions generate & run solar power parallel to the utility power on the grid with an aim to optimize cost and efficiency of power. This solution is very useful in commercial & industrial facilities that provide continuous power at high cost.

Solar power is used on priority & followed by utility thus reducing costs considerably.



### MAXWELL HYBRID

solutions are used to harness solar power in combination with utility or another power source such as wind power to optimize energy efficiency & cost.

These systems generate & store solar energy to be used during peak hours when utility power prices are high.



### MAXWELL STREET SMART

solutions are street light systems that run on solar energy. These are very useful in townships & large communities that either generate power independently or have a high cost of utility power due to luxury usage.



### MAXWELL CUSTOM

solutions are specially designed solar power systems for use in specific applications such as battery operated cars, electronic equipment, installations.

These solutions are developed keeping in mind the special needs of our clients for a customized design for energy efficiency & cost savings.



### MAXWELL WATER PUMP

solutions use solar power to run water pumps in agricultural farms. These solutions are primarily used to create a sustainable and cost saving source of energy in agriculture sectors of rural areas in India.



### PROJECT CONSULTANCY SERVICES

Through these solutions, we provide end to end consulting services to our large institutional clients to accomplish their ambitions to harnessing solar power.

Our services are hired by large companies, industrial undertakings, educational institutes, factories & many others.

### 250 wp Grid Connected Solar Power Plant on World Trade Centre

