

We touch your electricity everyday!

## Harvesting more than 5000 kWh per day



Haryana's First 1 MWp plant-developed, constructed & operated by C&S Electric Ltd.

# DELIVERING ON THE PROMISE OF SOLAR ENERGY



**HYBRID** SOLUTIONS

OFF GRID SOLUTIONS







World Class EPC Solutions

UTILITY SCALE • GROUND MOUNTED• ROOF TOPS

#### **C&S Electric Limited**

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# DELIVERING ON THE PROMISE OF SOLAR ENERGY

## **C&S Electric Solar PV Power Plants: EPC Solutions**

#### **Grid Tied Solutions**

C&S Electric's Solar PV Power Division is undertaking total solutions for Solar Projects on Engineering, Procurement & Construction (EPC) basis.

We are offering total solutions for utility scale PV Power Plants from concept to commissioning on turnkey basis with Crystalline technologies. The sourcing tie-up for PV modules and high efficiency inverters suitable for Indian conditions are already in place.

# **Hybrid Solutions**

C&S Electric is offering innovative hybrid solutions wherein Solar PV operates in tandem with DG Sets & Grid, thereby saving diesel by reducing its consumption and also reducing the carbon emission.

#### Off Grid Solutions

We are offering Off-Grid Solutions for captive power consumption with and without battery back up for various urban, industrial and rural applications.

# C&S Electric in Solar Power India is destined to be the global hub for

Solar PV Power Industry. It is endowed with a high level of Solar insolation, of the order of 2000 kWh/KWp.

The Policy Framework facilitating the realization of the huge potential is already in place with the declaration of Jawaharlal Nehru National Solar Mission by the Government of India.

C&S Electric enjoys the legacy of 46 years in providing engineering products & Solutions in Power Generation, Distribution, Control, Protection & Final Consumption.

C&S Electric solar PV Power Division is at the forefront of the Solar PV revolution underway in India.



HARYANA'S FIRST 1MWp PLANT DEVELOPED

ENGINEERED, CONSTRUCTED & OPERATED BY C&S ELECTRIC LTD.



# Solar PV Roof Tops

Solar PV Rooftops facilitate carbon emission reduction and also the saving of diesel in gensets. Moreover, these are commercially viable as 30% capital subsidy is available and 80% accelerated depreciation is applicable in the 1st year itself. Solar PV Rooftops are a game changer as they convert unutilized, idling rooftops into clean energy producing assets.



# **Hybrid Solutions**

Solar PV Hybrid Solutions work in tandem with grid or DG sets or both thereby saving expensive diesel in Gensts and reducing carbon footprint. Solar PV Power is totally clean with no emission, no noise, no combustion, no wear & tear and substitutes expensive diesel genset kWh by relatively economic solar kWh.





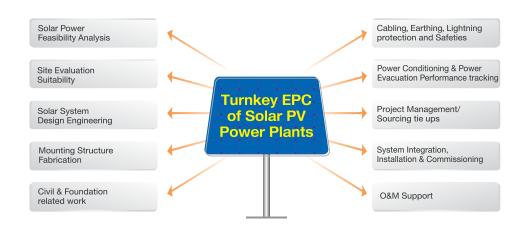
# **Operation & Maintenance**

We offer customised O&M solutions for different sites across the country with following advantages:

- Real time monitoring
- Preventive maintenance that maximizes plant uptime
- · Ensures high energy efficiency thereby high energy yield

# Capabilities

Solar PV Power Project Development is a complex and a specialized task. A Solar PV Power Plant involves DC power generation at module level, collating this DC power output from various modules in a manner to build the desired voltage and amperage, conditioning this collated DC power to AC, then stepping up to 33KV or 66KV and transmitting/ feeding into the Grid Sub Station. Our electrical engineering/controls/electronics competency fits into this domain naturally and enables us to be a leader in this complex and specialized field.



# **Unique EPC Solutions**







#### **Proven Track Record**

C&S Electric Limited has successfully synchronized its 1MWp Solar PV Power Plant with the grid at Village NANDHA, District Bhiiwani and commenced export of power w.e.f. 28th June 2011 thereby becoming the 1st ever MWp rating PV Power Plant operating in Harvana.

This is the second PV Power plant in the country to be successfully synchronized with the grid under MNRE RPSSGP program.

The turnkey EPC of the project was undertaken by C&S Electric itself completing it well ahead of the committed timeline, creating a benchmark for quality, innovative engineering and energy efficiency.

C&S Electric is undertaking Solar PV Power Plant EPC contracts based on crystalline technologies.

The power plant is one of the best operating PV Power Plants in the country and has completed more than 15 months of successful operation.



#### **C&S Electric Limited**

C&S Electric Ltd. is amongst the leading suppliers of electrical equipment in India and is India's largest exporter of industrial switchgear. It's wide range of electrical and electronic products find application in power generation, distribution, control, protection and final consumption.

With a business legacy of more than four decades, C&S employs over 4000 people including 400 engineers, and has 17 state-of-the art manufacturing plants. It has 20 branch offices across India and its products are exported to 80 countries.

#### **C&S BUSINESS UNITS**





