



# FINSEN RITTER

## DETAILED PROJECT REPORT SOLAR POWER PLANT

2022-23

Technology: Industry 4.0 IoT Enabled Hybrid Solar Power Plant

Finance Model: EPC Model

Scope: Design, Supply, Installation, Testing, Commissioning,  
Operations and Maintenance of Solar Power Plant

# INTRO

We use Photovoltaic cells to convert solar irradiation directly to DC voltage using PV cells.

Our state of the art PLC based controllers smartly integrate our solar power plant into the grid without any human invention



## PROPOSAL

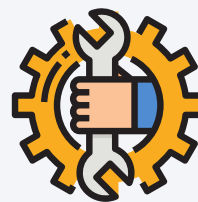
We propose EPC model for roof top solar installation at the site providing the following advantages



Competitive Capital  
Expense



Reduction in Energy  
Bills



Operational &  
Maintenance In Our  
Scope

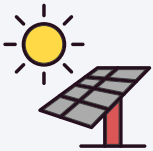


Green Energy

# ADVANTAGES

## INDUSTRY 4.0 IOT ENABLED HYBRID SOLAR POWER PLANT

- Use of Monocrystalline Photo Voltaic Cells
- Self Diagnostic reporting
- Internet of Things Enabled
- Maximum PV efficiency
- MTPP power management
- Inhouse design of charge controllers
- Simens PLC
- Adani solar plates
- Siemens PLC based controller
- IGBT based charge controllers
- IoT with Industry 4.0 standard
- MPPT Charge Controller
- 25 Year life of the plant



Best Quality  
PV Cells



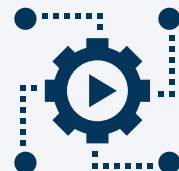
Durable PLC and charge  
Controllers



Very low  
maintainance and  
down time



Good quality AC 3 Phase 50 Hz  
electrical supply



Fully Automated



IOT based Online  
Monitoring

# FINSEN RITTER SOLAR POWER PLANT VS OTHERS



HIGHLY EFFICIENCY POWER PLANT WITH BEST QUALITY PV CELLS



VERY LOW DOWN TIME WITH GOOD QUALITY CONTROL SYSTEMS



CAPACITY TO WORK EVEN IN LOW LIGHT CONDITIONS



INDUSTRY 4.0 ENABLED



## FINSEN RITTER

## OTHERS



IN HOUSE DEVELOPMENT

EXTERNALLY DEPENDENT



SELF MONITORING

USE OF MAN POWER TO MONITOR



HIGH POWER FACTOR

LOWER POWER FACTOR



HYBRID GRID CONNECTION

NOT ALWAYS PRESENT

# KEY FEATURES



Complete sturdy structure and weather proof design



Energy Efficient Design due to smart control



Fully Automated PLC Controlled Plant



Completely in house design of plant providing reliable after sales support



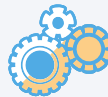
Safe design with all electronic sensors and redundant control systems



High Reliability due to Stainless Steel Grade 304 Piping



SCADA integration



Use of state of the art quality equipment like Siemens PLC, Festo Valves and fittings, SS 304 Piping, Honeywell sensors



## ABOUT THE COMPANY

WE SPECIALISE IN INDUSTRIAL TURNKEY SOLUTIONS. WE HAVE DEVELOPED OUR IN-HOUSE TECHNOLOGIES IN THE DESIGN, SUPPLY, INSTALLATION AND TESTING OF CHEMICAL AND GAS PLANTS.

WE HAVE BUSINESSES IN EUROPE AND INDIA. OUR DESIGN CENTRE IS IN AMSTERDAM, THE NETHERLANDS AND THE MANUFACTURING CENTRE IN INDIA.

WE HAVE EXPERTISE IN OXYGEN, NITROGEN, HYDROGEN, ANA, UVGI EQUIPMENT, WATER TREATMENT, BREWING EQUIPMENT, SOLAR POWER PLANT, MILK CHILLER PLANTS, CHLORINATION PLANT, BIOGAS PLANT, BIO CNG PLANT, NOISE MONITORING DEVICES ETC

WE FOLLOW THE STATE OF THE ART INDUSTRY 4.0 STANDARDS ACROSS ALL OUR EQUIPMENT AND PLANTS DELIVERING THE BEST OF EQUIPMENT TO OUR CLIENTS.

For more information visit:  
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**THANK YOU,  
AND WE LOOK  
FORWARD TO  
WORKING WITH  
YOU.**