



FOURTH PARTNER ENERGY'S  
**SOLAR PARK IN TALIKOTI,  
KARNATAKA**

A **Case Study** on how FPEL's Solar Solutions via Open Access has benefitted Businesses in the State.



# Accelerating Energy Transition through FPEL's Solar Park In Talikoti, Karnataka



This flagship project marked FPEL's foray into Open Access in Karnataka. Commissioned in FY 23 – the Talikoti park was designed to serve multiple clients across Karnataka, a key industrial and IT hub with immense Renewable Energy potential. With its robust regulatory framework and geographical conditions that are ideal for both Solar and Wind energy generation – Karnataka is a fast favourite amongst all RE developers in the country.

Fourth Partner Energy began this ambitious project in January 2022 and successfully completed it in under seven months, despite the challenges posed by the receding wave of the Covid-19 pandemic. Talikoti also marked FPEL's first time commissioning a Solar Park of over 50 MWp in a single phase.

# Key Highlights

## of FPEL's 72 MWp Solar Park



Location  
**Talikoti, Karnataka**



Project Capacity  
**72 MWp**



Project Lenders  
**Aseem Infrastructure Finance Limited**



Date of Commissioning  
**18th July 2022**



Area of Park  
**262 Acres**



Solar Modules  
**Renusys 335 Wp,  
Jinko 540 Wp,  
Jinko 535 Wp**



Sub Station Type  
**110/33KV in Solar plant side & 110/11KV in KPTCL side**



Transmission Line  
**110 KV, 4.2 KM length**



Connectivity Voltage  
**110KV**



Annual Generation of the plant  
**≈10,00,00,000 Units**

After consulting with several industries, FPEL locked down a global leader in industrial gases and engineering, a steel manufacturer and an iron works firm as the 3 leading off-takers from this project. Group Captive Power Purchase Agreements under the Open Access route were signed to provide these clients with low-cost, low-carbon clean energy, for a tenure of 25 years.

Apart from the benefiting the C&I sector in Karnataka, FPEL always has its focus on the environmental impact of our projects.

# Environmental Impact

of FPEL's Solar Park in Talikoti, Karnataka



**18,46,405 Tons**

of reduced Carbon Offset  
over life of plant



**47,430 Kgs**

Reduction in Coal  
Annually



**23 Crore Litres**

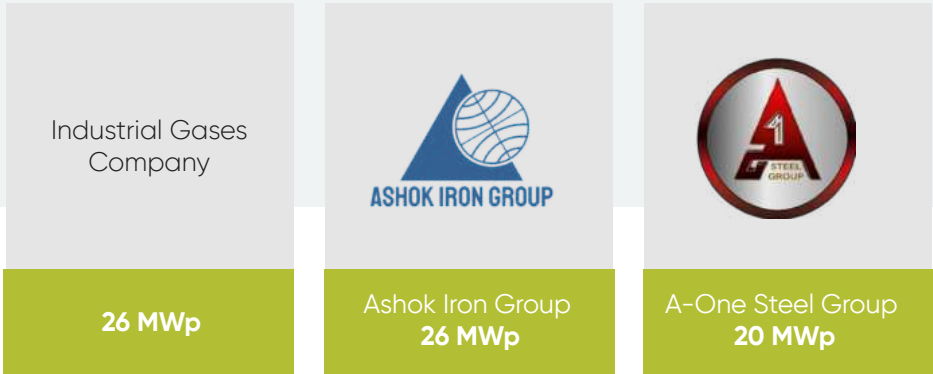
of Water Conserved  
Annually



Equivalent to Planting  
**4.5 Mn Trees**

# Key Clients

## Procuring Power from Talikoti



One of FPEL’s first PPAs inked at Talikoti was with a global industrial gases and engineering company committed to achieving zero carbon emissions by 2050. Our partnership with this firm which began on this note, has today extended to supply of over 100 MWp of clean energy from across regions, resulting in savings of nearly 40% on overall energy costs. Today, we are proud to be their Sustainability Partner of choice.

A-One Steel and Ashok Iron were signed on subsequently – with both firms making significant strides towards their energy transition goals through this move.

“ Karnataka is amongst India’s leaders in Renewable Energy generation and adoption – and FPEL is extremely bullish on this State. Talikoti and Atharga, were our initial Solar Energy Open Access projects here, executed amidst challenging pandemic constraints and reflective of our resilience and dedication. Through this state-of-the-art Solar facility – we are successfully supplying clean energy to Karnataka’s businesses, while helping them cut down on electricity costs and reduce their Carbon footprint. Our upcoming projects at Nippani and Kudligi will help FPEL contribute to a sustainable, greener future in the State.”

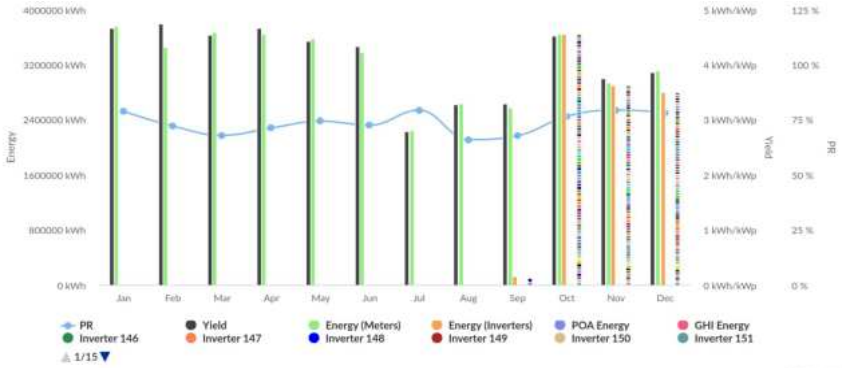
**Karan Chadha, Head – Business Development**



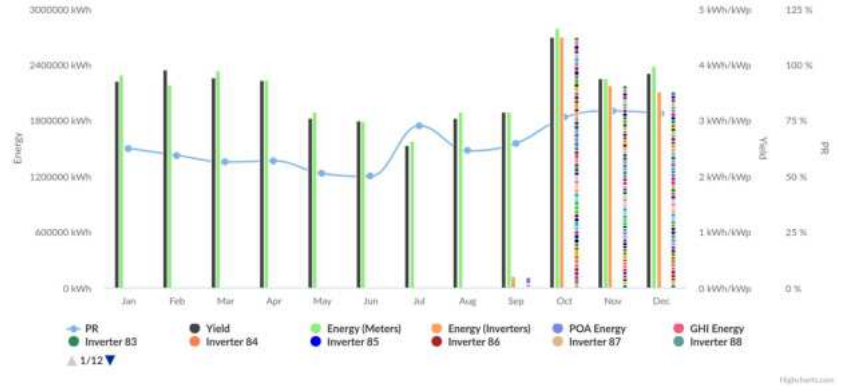
# Eye on Clean Energy

## Generation

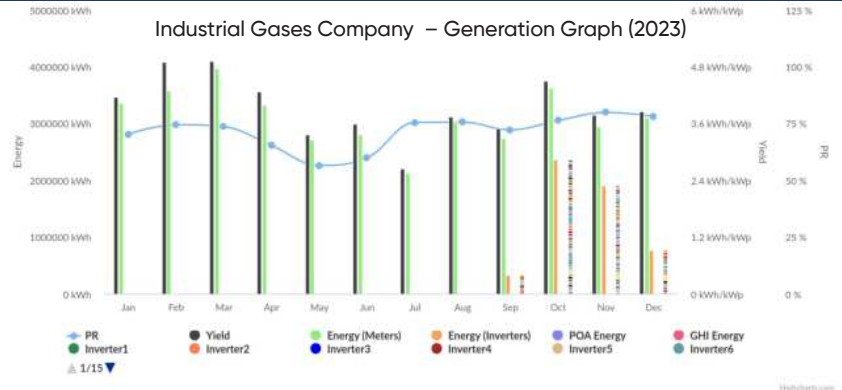
### Ashok Iron Group – Generation Graph (2023)



### A-One Steel – Generation Graph (2023)



### Industrial Gases Company – Generation Graph (2023)



# Project Challenges

## and FPEL's Innovative Solutions

During the project, we faced various obstacles, but FPEL's commitment to innovation and adaptability allowed us to navigate these challenges. By leveraging local resources and rethinking our designs, we implemented effective solutions that enhanced overall project efficiency.



### Challenges

#### 1 Labour Mobilization During the Pandemic's Third Wave

**Problem:** During the third wave of the pandemic, labour mobilization faced significant delays due to fears and travel restrictions.

#### 2 Space Congestion for Circuit Inputs

**Problem:** Space congestion was a problem as we needed to allocate numerous circuit inputs, which typically require separate towers.

#### 3 Manpower Shortage for RCC-Based Panel Mounting

**Problem:** We faced a manpower shortage for the Reinforced Cement Concrete (RCC) necessary for panel mounting.

### FPEL's Strategic Solution

Although we had some local manpower available, we increased our local workforce and provided them with the necessary training and skills to complete the project.

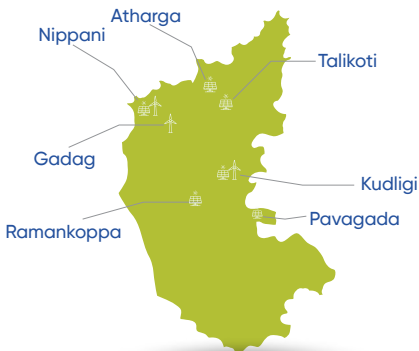
We constructed Multi-Circuit Towers, allowing a single tower to handle multiple circuit inputs. By building several of these towers, we significantly reduced the space required.

The initial design of the equipment foundation, including panel mounting, was based on RCC. To overcome the manpower shortage, we redesigned the structure using steel. This alternative not only resolved the manpower challenge but also resulted in significant time savings.

# Why should Businesses in Karnataka switch to Clean Energy via Open Access?

- **30-50%** Cost Savings on Power Tariffs
- **Upto 100%** exemption on stamp duty
- Karnataka offers streamlined approval processes, simplified land acquisition, and time-bound clearance mechanisms for solar projects.
- Up to 100% reimbursement on land **conversion fee**
- Low concessional registration charges of **0.1%**

## FPEL's Solar & Wind Energy Footprint in Karnataka



Location	Solar	Wind
Atharga	75 MWp	
Talikoti	72 MWp	
Pavagada	5 MWp	
Nippani	30 MWp	50 MW
Ramankoppa	90MWp	
Kudligi (ISTS)	263 MWp	300 MW
Gadag (ISTS)		300 MW



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