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Press Release

FIMER CONTRIBUTES TO ONE OF THE LARGEST BATTERY ENERGY STORAGE SYSTEM (BESS) UNDER OPERATION IN INDIA.

FIMER recently supplied its 1MVA inverters to Mahindra Susten for BESS system and successfully executed the Integrated Solar Energy Project at Sun Temple Town of Modhera, District Mehsana, Gujarat. The Project was awarded by GPCL to Mahindra Susten as an EPC and the project was fully commissioned on 26th August 2021. This is India's first integrated state of art Solar Project. The battery energy storage system (BESS) is one of the largest till date under operation in India. The full project was completed within 1 year and it was supplied through one of India's biggest EPC player, Mahindra Susten.

The project is a vision of honourable Prime Minister of India, Shri Narendra Modi, by making Modhera Sun temple and Modhera town self-reliant and self-sustainable for their power requirement through solar energy.

This remarkable project features a 6 MW grid connect system with 6MVA BESS system with 18 MWh Battery energy storage system.

Additionally, the town is solar powered by 100 kW rooftop system on govt buildings, 50 kW Solar parking infrastructure, 271 nos X 1Kwp solar systems on residential buildings and 150 kWh Battery storage for solar charging system. This small town in the state of Gujarat is self-reliant for energy consumption now.

FIMER supplied PCS of rating 1 MVA x 6 nos for BESS application: during solar hours the solar inverter powers the load, and the excess power charges the batteries; additionally, PCS can also support load demand during solar deficit conditions. FIMER PCS is also equipped with Black Start Mode / Grid Forming Mode, during grid failure conditions; FIMER PCS can form the Grid in V/F mode and other sources (inverters) can synchronize to AC bus and start supporting load or charge batteries. If grid comes back, PCS can operate in grid following mode and act as back-up whenever required. This is the first-time bidirectional converter 1 MW supplied to Indian market.

KN Sreevatsa, Country Managing Director at FIMER India said: *"At FIMER, we believe not only in providing tailor-made solutions for the customer's maximum benefit, but we also like to "Make a difference" to their lives. We fully support our PM's vision of making small towns and cities self-sustainable and we are glad to be a part of this remarkable project.*

Mr. Pramod Kalyanshetti, Chief Commercial Officer of Mahindra Susten, commented: *"Modhera Project is one of the prestigious and highly innovative integrated projects executed in the country. Susten is privileged to be the EPC for this project of national importance. The project has a complexity of integrating the solar generation ranging from 1 KW to 6 MW and Battery system of 18MWh. Susten design team had analysed each design aspect thoroughly while running various generation model simulations and concluded on final design. All the equipment's used in the project were analysed considering the reliability and long-term service. FIMER had provided us their best service with supply of inverters in our previous projects. Considering the best design fit and their reliability the FIMER PCS of size 6MW is used for our prestigious Modhera project."*



About FIMER

FIMER is the fourth largest, tier one, renewable energy equipment supplier in the world. Specializing in solar inverters and electric mobility systems, it has over 1100 employees worldwide and offers a comprehensive solar solutions portfolio across all applications. FIMER's skills are further strengthened by its bold and agile approach that sees it consistently invest in R&D. With a presence in over 20 countries together with local training centres and manufacturing hubs, FIMER remains close to its customers and the ever-evolving dynamics of the energy industry. For further details, visit our website www.fimer.com and follow our social channels:



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