Press Release

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FIMER PVS980 modelling approach has achieved AEMO approval in Australia

In July 2021, FIMER received its acceptance letter from the Australian Energy Market Operator (AEMO), which approved the use of a new modelling approach for its PVS980 central inverter solution.

The PVS980 modelling framework is a unique approach by FIMER compared to other inverter manufacturers in the Australian market. The approach sees three simulation platforms, namely PSS/E, PSCAD and PowerFactory, programmed and developed using only the MATLAB program as a single-source model.

FIMER Australia's Power System Engineers work with its clients to develop and compile the model for a PVS980 solution in MATLAB as the only root source model. The team can then export and convert the MATLAB model into the other simulation platforms required by the Australian Energy Market Operator (AEMO) without any extra programming required. This approach provides EPC's, power consultants and system designers greater flexibility, accuracy and reliability while also significantly improving the benchmarking results required by AEMO. Benchmarking compares the results of each modelling platform against the others to ensure they are the same and are an essential component of a successful grid connection application.

In the conventional modelling approach, inverter manufacturers will program and develop the required individual modelling for each simulation platform. Developing individual models for MATLAB, PSS/E, PSCAD and PowerFactory takes enormous time, cost, and resources. Further, any changes that occur to the system throughout the lengthy approval process means the change must be made to each model, which adds additional time, cost, complexity and a higher risk to ensure compliance with the AEMO benchmarking requirement.

FIMER Australia's Country Manager, Jason Venning, said, "We are thrilled that AEMO has now accepted this modelling approach for FIMER's PVS980 central inverter. FIMER has a proud history of supporting and supplying inverter solutions to the utility-scale solar market globally and now in Australia."

FIMER has already completed and received acceptance for the AEMO Operations and Planning Data Management System (OPDMS) integration for several projects planned for commissioning in 2022.

Jason continued, "We have received very positive feedback from industry consultants on our unique modelling approach for the PVS980 and the high level of accuracy that can be seen between PSS/E, PSCAD, PowerFactory and the actual inverter firmware. Our MATLAB based model results and benchmarking report has been validated by third-party Australian consultants as well as a third-party lab."

About FIMER

FIMER is the fourth largest solar inverter supplier in the world. Specializing in solar inverters and 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 26 countries together with local training centers 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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