



## UK partnership's smart grid innovation to improve energy sustainability in southern India

**September 30<sup>th</sup> 2020 – An innovative smart grid solution developed by two UK-based companies will help provide cleaner, more reliable power to millions of people in the southern Indian state of Tamil Nadu.**

Enzen, a Solihull-based knowledge enterprise specialising in energy and water, and Smarter Grid Solutions (SGS), a clean energy tech company based in Glasgow, are collaborating on India's first ever Active Network Management (ANM) project for Tamil Nadu electricity company TANTRANSCO.

The ANM system developed by SGS will maximise the potential of Tamil Nadu's extensive wind and solar energy resources. As on January 2020, the state had 14.2 GW of installed renewable energy capacity (higher than that of nations such as Denmark and Sweden), which equates to ~43% of the total installed energy capacity of the state.

The ANM system will enable TANTRANSCO to perform active real-time, autonomous renewable energy generation control ie. connecting and managing separate devices like solar panels and wind turbines across the grid to ensure they're being used efficiently and within operational limits.

This will stabilise the grid while minimising curtailment ie. when renewable energy is purposefully reduced to ensure the grid remains balanced. The outcome will be a smarter electricity grid in Tamil Nadu which delivers more reliable, efficient power to millions of people, reduces carbon emissions and decreases TANTRANSCO's operational expenditure, infrastructure costs and technical losses.

An example of how Enzen uses best-in-class international knowledge to meet specific customer needs at a local level, the partnership combines SGS's innovative ANM Starta and Element solutions with Enzen's previous on-the-ground experience of smart grids in India. The project will pave the way for better management of renewable resources across the transmission network for all state and central TRANSCOs in future.

Alan Gooding, Executive Director at SGS, said: "We are delighted to contribute to this ground-breaking development in India's power grid. The prize of low-cost, quicker and more flexible renewable generation connections and operation will further advance India's clean energy goals.

"Our ANM products are already proven in highly demanding applications in the UK and US, providing a highly secure means of extending renewable hosting capacity and enhancing grid modernisation, decarbonisation and flexibility. We look forward to playing our role in the energy transition in India with our valued partner Enzen and with forward-looking customers such as TANTRANSCO."

Sanjay Neogi, Head of Enzen in the UK and Europe, said: "We are extremely happy to be selected to implement this ANM solution, the first initiative of its kind in India. Enzen believes in leveraging best-in-class technology from across the globe to meet local needs, and that's why we've collaborating with Smarter Grid Solutions in this way.

"We are delivering an innovative solution that addresses the challenge of seamlessly integrating renewable power to the electricity grid in Tamil Nadu. The pilot is an important step in maximising renewable energy uptake by the grid, and realising the full benefit of renewable energy for electricity companies, project developers and communities in the state."



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**About Enzen:**

Enzen is a global knowledge practice that provides consulting, technology, engineering, operating, and innovation services to leading businesses, governments, non-governmental organisations, and non-profits. Enzen focuses on gaining, refining and sharing expertise in the energy and utility sector, providing strategic advisory and implementation of outcome-driven solutions. Enzen works with customers across the utility value chain to deliver sustainable and lasting improvements to their efficiency and performance thus adding value to their bottom line.

**About Smarter Grid Solutions:**

Smarter Grid Solutions (SGS) is a leading provider of distributed energy resource management system (DERMS) software with the company on track to exceed 1.3GW of renewable generation, energy storage and flexible load under control through 2020. With offices in New York, Glasgow, and San Francisco, SGS is a global solutions provider to distribution utilities and distributed energy resource operators.