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According to the International Energy Agency, expanding the share of electricity in buildings' final energy consumption is a key milestone to reach in the Net Zero Emissions by 2050 Scenario (NZE Scenario), which sees solar and wind supply used in electricity generation rise from 9% in 2020 to 40% in 2030.

Driven by technology cost reductions, policy support and technology maturity, the share of solar PV and wind in electricity generation will reach 68% by 2050 in the NZE Scenario.

In line with increased demand and necessity of renewable energy sources including wind, industry leading manufacturers are essential. We've taken a dive into ten of the top wind turbine manufacturers accelerating the global energy transition.

The company adheres to the enterprise spirit of "Catch the Wind, Equip the World", with the mission to practise new development concepts and support new energy strategies.

With roots as far back as 1880, Shanghai Electric is a leading global supplier of industrial-grade eco-friendly smart system solutions, dedicated to smart energy, intelligent manufacturing, and the integration of digital intelligence. In the smart energy field, we are creating solutions for multi-energy complementation between wind, solar, and hydrogen storage, as well as an integrated process of generation, grid, load, and storage.

Operating in 17 countries globally and headquartered in India, Suzlon is one of the leading renewable energy solutions providers, providing end to end solutions in multiple forms of green energy.

There remains no doubt that rapid adoption of renewable energy will be key to our world's future," says Dharini Mishra, Head of Corporate Communications, ESG and Transformation at Suzlon.

Based in Shanghai, China, Envision provides energy management software, and energy technology services alongside operating as one of the world's largest wind turbine manufacturers. The company has installed over 2400 wind turbines globally and its software is used in over 6,000 wind turbines in North America, Europe, Latin America and China.

It is the first company in the industry to develop the "smart turbine" with its exclusive core technology of smart control advanced measurement method, expert data analysis system, active performance control and reliability-based deterministic turbines.

General Electric (GE) is an American energy company working within the transportation, power, devices and environment sectors. With over 25,000 wind turbines installed globally, GE is one of the world's leading wind turbine suppliers. Its portfolio of turbines features rated capacities from 1.7 MW to 4.8 MW

(Onshore) and 6 MW to 12 MW (Offshore).

“As a company whose people have led innovation for more than 120 years, we are uniquely positioned and are deploying GE’s global reach, expertise and depth of engineering capabilities to address this urgent challenge.”

German wind turbine manufacturer Enercon has been an industry leader for more than 30 years, assuming responsibility for creating sustainable, pioneering and future-proof renewable energy generation and supply concepts, creating sustainable solutions that make a significant contribution to the growing global energy demand.

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