

REPORT ON INDUSTRIAL VISIT TO SIEMENS GAMESA RENEWABLE ENERGY

Date: 26.08.2025



A team of 11 students from III and IV Year EEE visited the Siemens Gamesa Renewable Energy facility in Nellore, Andhra Pradesh, on 26.08.2025. The visit commenced with a safety briefing by Mr. Rajesh, Safety Officer, who provided an overview of the organization and discussed the various safety measures to be followed during the visit. Next, Mr. Gangadharan from the production team explained the technical aspects of the different products manufactured at the facility. Mr. Rajendra Prasad, Head of Production, guided the students through various stages of production and elaborated on the entire manufacturing process. The key points gathered from the visit include:

- ✓ The Nellore site manufactures wind turbine blades—such as the SG 3.4-145 and G114-2.0 MW models—which are specifically optimized for Indian wind conditions. These blades are designed to maximize annual energy production (AEP) while offering competitive reliability and cost advantages.
- ✓ The SG 3.4-145 turbine features a 145-meter rotor diameter and advanced modular design, increasing the swept area by 41% and boosting AEP by up to 48% compared to previous models. These improvements help lower the Levelized Cost of Energy (LCoE) and ensure reliable performance in extreme climates.
- ✓ The factory utilizes proven Siemens Gamesa platform modularity, employing pre-existing and patented technologies for enhanced durability and efficiency.
- ✓ In addition to blades, the facility manufactures wind power converters, generators, and control cabinets for wind turbines. These products have an installation service life benefitting from 85 years of accumulated engineering expertise.

The visit concluded with a closing note by Mr. Sivakaumar, Vice President – Generator Business, Siemens Gamesa Renewable Energy. He emphasized the importance of skill development and encouraged students to focus on conceptual learning for their professional growth.