Ecosense Sustainable Solutions
Premier enabler in Renewable Energy Education
Technology Solutions coupled with Educational Content
Renewable Energy Programs
Establish RE Labs and Centres of Excellence
Pan-India presence (including IITs, NITs, Central Universities)
Outstanding and Guaranteed Service

WIND ENERGY LAB EXPERIEMENTS
end-to-end learning hands-on experience

Wind Energy Training System
List of Experiments
- Evaluation of cut-in speed and cut-off speed
- I-V characteristics of wind turbine at different wind speed
- Characteristics of wind turbine with electrolysis and water pump
- P-V and F measurement of output of wind generator
- Demonstration of system with charge controller and inverter
- Power quality of AC output of system
- Impact of load and wind speed on power output and its quality

Wind Turbine Emulator
Research Insights
- MPPT algorithm testing
- AC-AC converter control testing
- AC-DC control testing
- Inverter control testing for different operating conditions
- Analysis and characterization of wind stand alone system
- Analysis and characterization of grid connected system
- Micro-grid and smart grid control testing
WIND ENERGY LAB EXPERIEMENTS

WIND ENERGY TRAINING SYSTEM

WIND TURBINE EMULATOR

- Wind Turbine
- Display Panel
- Battery Bank
- Inverter
- Charge Controller
- Control Unit
- Wind Source - Fan Array
- Wind Speed Regulator
- Back to Back Inverter
- Auto Transformer
- Controller/Computer
- Induction Motor
- Induction Generator
- VF Drive
- Back to Back Inverter
- Charge Controller