

Product Name :
Smart Grid Training Kit**Product Code :**
NRE-18-06-18-0184**Description :**

Smart Grid Training Kit

Technical Specification :

The Kit should cover like or better than the following: Smart Grid Experiments:

Daily power fluctuations of a photovoltaic (PV) power plant

Daily power fluctuations of a wind power plant

Energy supply of a building by conventional power plants

Energy supply of a building by conventional and PV power plants

Energy supply of a building by conventional and PV power plants with storage

Voltage behavior and grid stability in a radial distribution system

Grid stability with PV power plants

Grid stability with PV power plants depending on consumer load

Grid stability with PV power plants depending on wire length

Grid stability with PV power plants and smart transformer stations

Grid stability with PV power plants and storages

Grid integration of E-Mobility

Conductor rope management Photovoltaics Experiments:

IV-Characteristics of solar panels

IV-Characteristics depending on illumination

IV-Characteristics depending on temperature

MPP-Tracking

Wind energy Experiments:

Turbine power dependent on blade shape and pitch angle

Turbine power dependent on number of blades

Turbine power dependent on wind direction Fuel Cell and Electrolyzer Experiments: • Functionality of an electrolyzer

IV-characteristics of an electrolyzer

Functionality of a fuel cell

IV-characteristics of a fuel cell Storage technologies Experiments:

Charge and discharge characteristics of a capacitor

Functionality and charge procedure of a LiFePo battery

Operation of fuel cells and electrolyzers

Electrical and Electronics

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