

RENEWABLE ENERGY & LABVIEW PROJECTS

Project Code	Project Titles	Technology
PANRE001	Transient Stability Enhancement Of A Micro-grid Consisting Of Solar PV And DFIG Based Wind Turbine (Renewable energy) System Using Bridge Type SFCL	Solar PV & DFIG Based Wind Turbine
PANRE002	Doubly Fed Induction Generator– A Wind Technology In The Power System	DFIG
PANRE003	Autonomous Water Pumping System Based On Wind Generation. Control By Rotor Frequency	Water Pumping System
PANRE004	A Performance Study Based On Comparative Analysis Between SCIG And DFIG Based Wind Energy Conversion System In A Micro-grid At St. Martin's Island	SCIG And DFIG
PANRE005	Optimal Configuration Of Hybrid System Distributed Generation Capacity In A Grid-Connected Micro-grid	Grid-Connected Micro-grid
PANRE006	Design A Hybrid Energy System For Household Using Small Vertical Wind Turbine	Vertical Wind Turbine
PANRE007	Operation And Control Of Renewable energy and Diesel Generator Based Hybrid Micro-grid In Grid Connected Mode Under Fault Conditions	Renewable Energy
PANRE008	Design And Optimization Of Solar, Wind, And Distributed Energy Resource (DER) Hybrid Power Plant For EV Charging Station In Rural Area	Electrical Vehicle
PANRE009	Multiple Input DC-DC Converters For Solar Cell Power Supply System And Its MPPT System	MPPT
PANRE010	Research On Capacity Optimization Configuration Of Hybrid AC/DC Micro- grid Based On renewable energy And Battery	Hybrid AC/DC Micro-grid
PANRE011	Impact Study Of A Micro-grid With Battery Energy Storage System (BESS) And Hybrid Distributed Energy Resources Using MATLAB Simulink And T-Test Analysis	Battery Energy Storage System
PANRE012	Research On Capacity Optimization Configuration Of Hybrid AC/DC Micro-grid Based On Wind, Solar And Storage	Hybrid Ac/Dc Micro-grid
PANRE013	Autonomous Water Pumping System Based On Wind Generation. Control By Rotor Frequency	Wind Turbine
PANRE014	Renewable Energy Sources Integration And Control In Railway Micro grid	Railway Micro-grid
PANRE015	Binary Hybrid Multilevel Inverter-Based Grid Integrated Solar Energy Conversion System With Damped SOGI Control	Photovoltaics
PANRE016	Solar PV Energy Generation System Interfaced to Three Phase Grid With Improved Power Quality	Power Quality



RENEWABLE ENERGY & LABVIEW PROJECTS

PANRE017	Investigation of MPPT Techniques Under Uniform and Non-Uniform Solar Irradiation Condition–A Retrospection	MPPT Technologies
PANRE018	Framework of maximum power point tracking for solar PVpanel using WSPS technique	WSPS Technique
PANRE019	Controller Design and Implementation of Solar Panel CompanionInverters	Companion Inverters
PANRE020	Reduced Sensor-Based PMSM Driven Autonomous Solar WaterPumping System	Autonomous Drive PMSM
PANRE021	Adaptive Observer Based Control for Rooftop Solar PV System	Rooftop Solar PV
PANRE022	Design and Analysis of Single-Phase Grid-Tied Inverter With PDM MPPT-Controlled Converter	Grid Tied Inverter
PANRE023	Control of Grid Fed PV Generation Using Infinite Impulse Response Peak Filter in Distribution Network	Grid Control
PANRE024	Energy Management and Control of Single-Stage Grid-Connected Solar PV and BES System	BES System
PANRE025	Centralized MPPT Controller System of PV Modules by a Wireless Sensor Network	CentralizedPV System
PANRE026	A Unified Control Scheme for a Standalone Solar-PV Low Voltage DC Micro-grid System With HESS	HESS
PANRE027	Cascaded Multilevel PV Inverter With Improved Harmonic Performance During Power Imbalance Between Power Cells	Harmonic Performance analysis
PANRE028	Enhanced energy harvesting from shaded PV systems using animproved particle swarm optimization	PSO Technique
PANRE029	Modelling and Control Design for Variable Speed Wind TurbineEnergy System	Variable speed Drive
PANRE030	Active flow control in Horizontal Axis Wind Turbine using PI-R controllers	Active Flow Control
PANRE031	AI techniques applied to diagnosis of vibrations failures in windturbines	Artificial Intelligence
PANRE032	A Method for Yaw Error Alignment of Wind Turbine Based on LiDAR	Wind
PANRE033	Performance of a Small Horizontal Axis Wind Turbine with Blade Pitching	Pitch control



RENEWABLE ENERGY & LABVIEW PROJECTS

PANRE034	Operation And Control Of Renewable energy and Diesel Generator BasedHybrid Micro-grid In Grid Connected Mode Under Fault Conditions	Hybrid system
PANRE035	Multiple Input DC-DC Converters For Solar Cell Power Supply System AndIts MPPT System	Solar cell
PANRE036	Energy Management and Control of Single-Stage Grid-ConnectedSolar PV and BES System	BES System
PANRE037	Centralized MPPT Controller System of PV Modules by a Wireless Sensor Network	CentralizedPV System
PANHS038	PMSM Open Open-Phase Fault Fault-Tolerant Control Strategy Based OnFour Four-Leg Inverter	PMSM
PANHS039	A New Family Of 1- Φ Nine-Level Transformer Less Inverters For renewableenergy Applications	Solar
PANHS040	Design And Implementation Of Cascaded Multilevel QZSI Powered SinglePhase Induction Motor For Isolated Grid Water Pump Application	QZSI

