

Training module on Microgrids

Programme Title		Microgrids
Duration		5 days
Venue		NSB, Noida, India
Day	Time	Topic
Day 1	Forenoon (FN) 3 hours	Overview of Power systems studies Introduction to microgrids, Utility of microgrids, Different types of loads in microgrids, Components of microgrid, Microgrid configurations/architecture & design, AC and DC microgrids
	Afternoon (AN) 3 hours	Solid State Transformers in microgrids Fault tolerance in microgrids
Day 2	Forenoon (FN) 3 hours	Techno-institutional/Business models (with and without entrepreneurial models & anchor loads) for rural and urban Microgrids – examples from South Asia and Southeast Asia
	Afternoon (AN) 3 hours	Microgrid Policies & Regulations, International best practices, Grid integrated microgrids
Day 3	Forenoon (FN) 3 hours	Distributed loads in microgrids, Demand response in microgrids Smart, hybrid & P2P microgrids Use of block chain in microgrids
	Afternoon (AN) 3 hours	Conventional energy storage systems Applications of energy storage systems in microgrids Microgrid stability assessment and protection
Day 4	Forenoon (FN) 3 hours	Planning and design of Microgrids, Use of HOMER for design
	Afternoon (AN) 3 hours	Cost benefits/economics and tariffs of microgrids
Day 5	Forenoon (FN)	Field visit to NTPC facilities
	Afternoon (AN)	Felicitation of participants