

## Training module on Smart-grids

<b>Programme Title</b>		Design and Deployment of Smartgrids
<b>Duration</b>		5 days
<b>Venue</b>		NSB, Noida, India
<b>Day</b>	<b>Time</b>	<b>Topic</b>
Day 1	Forenoon (FN) 3 hours	Concept of Smart Electric Utility Introduction to smart grid, Smart grid building blocks & architecture
	Afternoon (AN) 3 hours	Peak load management and demand response Grid Integration of Renewables: Role of Smart Grid
Day 2	Forenoon (FN) 3 hours	Loss Reduction, Asset Monitoring Optimization and Outage Management Systems
	Afternoon (AN) 3 hours	Grid Integration of Renewables, Role of Smart Grid Business Models for smart grid applications Experience from smart grid pilot projects in India
Day 3	Forenoon (FN) 3 hours	Smart Grid and Quality of Supply and Service (QoSS) Smart Grid Communication Systems
	Afternoon (AN) 3 hours	Cyber Security in Power Smart Grids Systems Smart Grid Analytics and use of AI Use of Block Chain in Smart Microgrids
Day 4	Forenoon (FN) 3 hours	Policy and Regulatory Considerations in Smart Grid Projects, Consumer Engagement and Participation
	Afternoon (AN) 3 hours	Cost benefits/economics and tariffs of smart microgrids Cost benefits regarding microgrids, Hybrid microgrids
Day 5	Forenoon (FN)	Field visit to NTPC facilities
	Afternoon (AN)	Felicitation of participants