

## Power Management Institute

### COURSE CONTENT

**PROGRAMME:** Renewable Energy Technology

**DATES/ DURATION:** 26.04.2021- 27.04.2021, ONLINE Mode

Session	TOPIC
Session-1	<p>Introductory Address</p> <p>Module of Solar power and its aspects-</p> <ul style="list-style-type: none"> <li>➤ Need for Renewable Energy</li> <li>➤ Overview of Solar Energy</li> <li>➤ Solar PV Systems</li> <li>➤ PV Cell Technology</li> <li>➤ Challenges with Renewables</li> </ul>
Session-2	<ul style="list-style-type: none"> <li>➤ Benefit in terms of Reduction in CO<sub>2</sub>, other environmental consideration, cheaper electricity etc.</li> <li>➤ Latest development in Solar</li> <li>➤ NTPC Experience so far</li> </ul>
Session-3	<p>Module of Wind Energy and its aspects</p> <ul style="list-style-type: none"> <li>➤ Wind Energy conversion system</li> <li>➤ Wind power density</li> <li>➤ Wind Turbines, Performance and features</li> <li>➤ Synchronous generators of Wind turbines</li> <li>➤ Challenges of Wind Energy</li> </ul>
Session-4	<ul style="list-style-type: none"> <li>➤ Way forward for Capability augmentation (competency) for the team members;</li> <li>➤ How to proceed for Actual RE Capacity addition</li> </ul>

### Participant Benefits:

After this Course, the participant will be able to-

- Assess various renewable energy options;
- Understand various issues related to Renewable Energy (RE) Projects such as Policy, design, fund management, and sustainability;
- Appreciate the new emerging technologies in RE sector.