**TRAINING PROGRAMME ON**

**TECHNICAL, POLICY INSTRUMENTS & FRAMEWORKS FOR SHIFTING TO**

**RENEWABLE ENERGY**



**National Productivity Council**

No. 6, Aavin Dairy Road, Ambattur Industrial Estate (North),

Ambattur, Chennai, India - 600 050

**SCOPE AND COVERAGE:**

The course content for the training has been carefully designed considering latest developments in renewable energy field such that, at the end of the course considerable useful knowledge transfer is perceived. The two-week course will address the following aspects:

| **Proposed Day-wise Program Schedule** |
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| **Day** | **09:45-11:00** | **11:00 – 11:15** | **11:15 – 13:00** | **13:00** **–** **14:00** | **14:00 – 15:30** | **15:30****-****15:45** | **15:45-17:00** |
|  |  |
| 1 | Registration & Welcome session | Tea Break | Introduction to course | Lunch Break | Energy Scenario, Energy demand | Tea Break | Introduction to sources of Renewable energy-Solar |
| 2 | Introduction to sources of Renewable Energy-Wind | Introduction to sources of Renewable Energy-Bio & others | Technical aspects of Solar PV | Technical aspects of Solar PV |
| 3 | Assessment of Renewable Energy potential-Solar | Assessment of Renewable Energy potential-Wind | Technical aspects of Solar Thermal System | Technical aspects of Solar Thermal System |
| 4 | Project costing, feasibility and detailed report preparation | Project costing, feasibility and detailed report preparation | Project costing, feasibility and detailed report preparation | Project costing, feasibility and detailed report preparation |
| 5 | Grid Operation- Challenges to manage variability in Grid  | Grid Operation- Challenges to manage variability in Grid | Training needs Gap assessment and Capacity building programmes for all the stakeholders | Barriers to RE: Labour, technology transfer, R&D |
| 6 | Holiday | Holiday | Holiday | Holiday |
| 7 |
| 8 | Storage Technologies | Case Study | Future prospects of RE | Case Study |
| 9 | Financing for RE Technologies | Funding Mechanisms  | Financial Analysis | Financial Analysis |
| 10 | Risk evaluation and mitigation | Need & assessment of incentives- case study | Need & assessment of incentives- case exercise | Measurement & Verification protocols – case study |
| 11 | Multi-lateral agreements to meet NDC targets | Policy framework for RE | Overview of various Government schemes in Renewable Energy | RESCO mechanism, and case study |
| 12 | Carbon Trading | Success stories of RE schemes implemented | Scaling RE plants, start-up and down-time | Feedback & Closing ceremony |

**METHODOLGY:**

To achieve the objectives of training, the program will be conducted using:

* Class room lectures for imparting formal, theoretical and technical knowledge.
* Case studies/Group discussions.
* The training methodology so adopted creates step by step environment for all round development of skills and knowledge of the participants.
* Video vignettes and experiential learning exercises aiming at stimulating and creating interest among participants for enhanced learning experience.
* Study tour