

**‘2<sup>nd</sup> Sustainable Energy Leadership Programme’**  
**supported by UNIDO**  
**For emerging and developing countries to enhance South-South**  
**Collaboration**

**April 5 – 17, 2015**

<b>Sunday April 5, 2015 ARRIVAL AND AIRPORT PICK-UP</b>	
<b>Monday April 6, 2015 Scene setting (TERI University) (Tea to be served at 11.00 hrs in the morning and at 15.00 hrs in the post lunch session)</b>	
Session 1: Welcome and introductions 1000 hrs  10:15 hrs – Group Photography	Dr. Leena Srivastava (Acting Director General, TERI) Dr. Pradeep Monga (Director, UNIDO) Ms. Ayumi Fujino (Regional Director and Representative to India, UNIDO)
Session 2: Global Energy Scenario and Outlook  10.30 – 11.00 hrs	Dr. Atul Kumar (Fellow, TERI)
Session 3: Food- energy-water nexus Issues  11.15 - 11.45 hrs	Dr. Ritu Mathur (Professor, TERI University, Senior Fellow, TERI)
Visit around TERI Gram  11.45 hrs	Coordinated by Mr. Suresh Kumar Dev , Mr. Vinay Pathak (Manager, TERI Retreat)
Visit to Solar Energy Center (post lunch) (lunch at TERI GRAM)	Coordinated by Mr. Sandeep Arora (Addl. GM (SS&ET))
<b>Reception: Ms Ayumi Fujino, Head of UNIDO Regional Office / Dr Pradeep Monga (Director of Energy, UNIDO)</b>	
<b>Tuesday, April 7, 2015 Energy Efficiency Day (TERI U)</b>	
Session 1: Talk on Lighting 09.30 hrs- 10:30 hrs.  <b>'Importance of Test Standards and Testing Labs for Quality Assurance of Solar Lighting Systems'</b>	Mr. Arvind Sharma (Fellow, TERI)
11:00-13:00 hrs.	Visit to Lighting Laboratory
Session 2: Government interaction – Design of the PAT Scheme and implementation challenges – 1330-1500 hrs	Dr. Ajay Mathur ( Director General, BEE)
Session 3: Industrial Energy Efficiency - approaches, technologies and policies - 15:30-16:30 hrs	Mr Prosanto Pal (Senior Fellow, Industrial Energy Efficiency Division, TERI)
Session 4: Special challenges of the SME sector – 1630- 1730 hrs	
<b>Talk by Mr Amarinder on SMEs</b>	

Dinner	
<b>Wednesday April 8, 2015, Site Visit</b>	
<ul style="list-style-type: none"> <li>• 06.00 hrs: Travel to Chandigarh</li> <li>• Field visit to a dairy firm in Punjab followed by a visit to show case TERI's work in PEDDA in the area of Energy Efficiency in Buildings</li> <li>• 1700hrs: Departure to Delhi</li> </ul>	
<b>Thursday, April 9, 2015 (TERI University &amp; UNIDO)</b>	
Session 1: Sustainable Transport – Emerging choices and challenges - 9.30 hrs – 11.00 hrs	Mr. Shri Prakash (Distinguished Fellow, TERI Mr Mukul Mathur Executive Director, Perspective Planning Railway Board
Session 2: Sustainable Cities and Green Buildings: Incentivizing the transition – 11.15 hrs – 12.30 hrs	Ms. Mili Majumdar (Director- Sustainable Habitat Division, TERI) Mr. Pradeep Kumar (Associate Director, Sustainable Habitat Division, TERI)
LUNCH (TU)	
Recent trends in sustainable transport (applications on vehicular efficiencies) – 14.00 hrs – 15.00 hrs	Mr. I.V. Rao, Executive Advisor, Engineering & Director, Maruti Centre of Excellence
Session 3: Industry interaction - Clean and Alternate Fuels – Challenges to Euro III, IV transition – 15.15hrs – 17.00 hrs	
<i>Evening: Group work – 3 groups to be formed (6 p.m. onwards) followed by dinner (TU)</i>	
MR SAPAN THAPAR – DISCUSSION ON SE4ALL IN THE CONTEXT OF THE THREE GOALS FITTING TO SE4ALL HUB	
Dinner	
<b>Friday, April 10, 2015 Energy Access (TERI University &amp; UNIDO)</b>	
Session 1 (am): Realising the potential of biomass energy - technological developments, supply chain issues and use challenges - 10.00 hrs – 11.00 hrs	Mr. N K Ram, Fellow, TERI
Industrial prosumers of renewable energy (IPREs) for energy access and security - 11.15 – 13.00 hrs	Mr. Debajit Palit, Associate Director, Social Transformation Division, TERI
Session 2A (pm): Structuring an energy access intervention programme - Planning, social mobilization, market development and financial access – 14.00 hrs – 15.00 hrs (UNIDO) 15.30 hrs – 16.30 hrs (TERI)  16.30 hrs – 17.00 hrs	Mr. I H Rehman, Director, Social Transformation Division, TERI  Mr Amit Kumar, Senior Fellow, TERI – SE4ALL Initiative

Evening interaction (6.30 pm) - Energy Storage Technologies and Role of A Regional Approach  - Significance of Regional Approach for Sustainable Energy Interventions	➤ Energy Storage technologies - Dr. Rahul Walawalkar, CEM, CDSM, CSDP Executive Director, IESA & VP, Emerging Technologies & markets.
<b>Dinner</b>	
<b>Saturday, April 11, 2015: Site visit (Jagdishpur, State of Uttar Pradesh)</b>	
<ul style="list-style-type: none"> <li>• 0730 hrs: Departure for Lucknow for field visit to Jagdishpur/Barabanki</li> <li>• Visit to the Solar Field Lab, efficient cook stove testing and monitoring</li> <li>• Visit to see the working of improved stoves in rural kitchens</li> <li>• Visit to a solar based micro-grid that serves the local village market and interaction with the Village level Entrepreneur (VLE) and shop owners (customers of the grid)</li> <li>• Lunch with the Energy Efficiency team and state level experts</li> <li>• Hands on training and case study specific group discussions</li> <li>• Skill Development training programme</li> <li>• 17:00 –hrs Travel from Lucknow to New Delhi</li> </ul>	Coordinated by Mr. Asim Mirza (Field Manager, Social Transformation Division, TERI)
<i>Sunday, April 12, 2015 – Agra</i>	<i>Coordinated by Mr. Sandeep Arora</i>
<b>Monday, April 13, 2015</b>	
Session 1: Realising India's Solar Mission: policies and strategies - 10.00 hrs – 11.00 hrs	Mr. Shirish Garud (Associate Director, Energy Environment Tech. Development Division, TERI) / Mr. Tarun Kapur (Joint Secretary, MNRE)
Session 2: The ups and downs of developing India's wind energy programme – 11.30 hrs – 13.00 hrs	Mr. N S Prasad (Senior Fellow, Energy Environment Tech. Development Division, TERI)
<i>Afternoon: Group work (14.00 hrs – 17.00 hrs)</i>	
Evening interaction (18.00 hrs) (followed by dinner at TU)	
➤ Talk by Dr N P Singh, Senior Advisor, MNRE	
<b>Tuesday, April 14, 2015, Site Visit (National Small Hydro Energy Centre, Roorkee 0600 hrs: Travel by train to Roorkee (lunch on the way)</b>	

<ul style="list-style-type: none"> <li>• 1400 hrs: Visit to Small Hydro Power Site (To be organized by Dr. Arun Kumar)</li> <li>• 1600 hrs : Arrival at Roorkee</li> <li>• 1800 hrs : Tea</li> <li>• 1900 hrs : Site visit / dinner</li> </ul>	Coordinated by Dr. Arun Kumar
<b>Wednesday, April 15, 2015 Site Visit (National Small Hydro Energy Centre, Roorkee)</b>	
<ul style="list-style-type: none"> <li>• 0900 hrs : Visit to National Small Hydro Energy Centre including SHP testing lab and training simulator</li> <li>• 1230 hrs : Lunch</li> <li>• 1400 hrs : Departure for Delhi</li> </ul>	Coordinated by Dr. Arun Kumar
<b>Thursday, April 16, 2015</b>	
<p>Session 1: Energy and environment challenges and responses – Responses of policy regulations (implications of CPCB, SPCB guidelines)</p> <p>10.00 hrs – 11.15 hrs</p>	Dr. Piyali Das (Fellow, TERI)
<p>Session 2: Managing India's electricity grid</p> <p>11.30 hrs – 13.00 hrs</p>	Mr. K. Ramanathan (Distinguished Fellow, TERI)
<p>Session 3: Afternoon: Visit to Regional Load despatch Center</p> <p>14.00 hrs – 15.30 hrs</p> <p>17.00 hrs – 18.00 hrs</p> <p>18.00 hrs – 18.30 hrs</p>	<p>Interaction with Mr K V S Baba (GM, Northern Regional Load Despatch Centre)</p> <p>a) Talk Subject – Role of Regional Load despatch Center in managing India's electricity grid</p> <p>Visit organized from TERI University side – Mr. Sandeep Arora (to be accompanied by a research professional )</p> <p>b) Talk by Dr Arne Walther – "Petroleum Resources - Curse or Blessing": Managing Sovereign Wealth the NorWay"</p> <p>c) Dr. Mohua Mukherji (World Bank) – Banks perspective on sustainable energy for all</p>
Evening: Interaction (19.00 hrs onwards)	

**Cultural programme + High Dinner****Friday, April 17, 2015**

Session 1: Financing sustainable energy  
- Emerging sustainable energy and climate  
finance mechanisms and opportunities

10.00 hrs – 11.00 hrs

Dr. Manipadma Datta (Professor, TERI  
University)

Session 2: Overcoming barriers to attain  
Sustainable Energy Leadership across developing  
countries: Individual Country Perspectives – A  
Round Table

11.15 hrs – 13.30 hrs

Ambassador Ajai Malhotra (Distinguished  
Fellow, TERI)  
Ambassador C. Dasgupta (Distinguished  
Fellow, Emeritus TERI)  
Dr. Prodipto Ghosh (Distinguished Fellow,  
TERI)

Closing Session (14.00 hrs onwards) : Presentation by Participants (in Groups – Presentation on  
the group exercise case studies and summary take away points of the course and its future  
application in the specific country contexts of the participants)

- Feedback by Participants

Chair: Ms. Ayumi Fujino, Head of UNIDO Regional Office in India

Dr. Leena Srivastava, Vice Chancellor, TERI University

**DEPARTURE – 17<sup>TH</sup> NIGHT / 18<sup>TH</sup> MORNING – AIRPORT DROP**