

The main goal of the Young Researchers' School (YRS) is to provide graduate students with an opportunity to better understand the spectrum of challenges that underpin sustainable development. By assembling these young scientists together for an intensive two-week workshop, the school fosters the growth of a network of sustainability scholars and professionals in the Asia-Pacific region.

Below are the lectures of the 2016 YRS at TERI University, New Delhi, India on 1-12 February, 2016. The theme in 2016 was '**Sustainable Energy for Transforming Lives: Availability, Accessibility, Affordability**'. For reports on the programme click [here](#).

The programme provided specific knowledge regarding the theme energy. There were plenty of opportunities for research skills development, including research communication skills through activities such as the 3-minute thesis competition and the [Our World](#) workshop. The aim was to help students frame their research in a simplified manner and thus reach broader audiences. There was much interaction among participants and resource persons through group activities and field trips, that provided the context and content for students to develop a research proposal looking at how different policies and projects can be interlinked and provide integrative solutions for various sustainability challenges. A core team of 4-5 resource persons participated in the entire programme, to coordinate activities, facilitate group work sessions and take the responsibility of any decisions during the delivery of the researchers' school.

Photos can be found on [facebook](#).

Watch this [video](#) on the latest YRS.

## 1 February 2016

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
9:30-10:00	Opening Ceremony Welcome remarks	Rajiv Seth, Acting Vice Chancellor, TERI University Mario Tabucanon, UNU-IAS
10:00-10:45	Keynote Address / talks by eminent speakers on energy	Ajay Mathur, D.G Bureau of Energy efficiency (TBC) Upendra Tripathi, Secretary, Ministry of New and Renewable Energy (MNRE) Arun Kansal

11:00-12:30	Panel discussion – Sustainable energy for transforming lives	<u>Chair:</u> Amit Kumar, Dean, Distance and Short-term Education Programme, TERI University <u>Panelists:</u> Raghunath Mahapatra, Vice President, Strategy, Welspun Energy P. C. Mathani, Director, MNRE Debajit Palit, Associate Director, Renewables and Environment, TERI Disha Banerjee, Director, Policy and Communication, Smart Power India
13:30-14:00	<a href="#">Programme Introduction</a>	Mario Tabucanon, UNU-IAS Fawzia Tarannum
14:00-15:30	<a href="#">Movie I on Energy Use Efficiency/Conservation and Discussion</a>	TERI and TU, Mario Tabucanon, UNU-IAS
15:45-17:15	<a href="#">Movie II: Let there be Light on Energy Use Efficiency/Conservation and Discussion</a>	TERI and TU, Mario Tabucanon, UNU-IAS

2 February 2016

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:15-10:45	<a href="#">Lecture 1: Linking energy crisis with Climate Change</a>	Ritu Mathur, Director, Green Growth and Resource Efficiency, TERI
11:00-12:30	Lecture 2: Energy security- global and local challenges	Anil Kumar Jain, Advisor, NITI (National Institution for Transforming India) Aayog, Government of India
14:00-15:30	Lecture 3: Energy accessibility and socio-economic impact	<b>Martand Shardul,</b> Associate Fellow Social Transformation, TERI

15:45-17:15 Lecture 4: Energy efficient stoves and lighting a billion lives initiative of TERI      Debajit Palit, Associate Director, Renewables and Environment, TERI

**Lecture summaries by students:**

[Lecture 1: Linking the energy crisis with climate change by Haitham Alkhalaf](#)

[Lecture 2: Energy security - global and local challenges](#)

[Lecture 3: Energy Accessibility and socio-economic impact by Haixing Meng](#)

[Lecture 4: Energy efficient stoves and lighting a billion lives initiative by TERI by Mazlina Zaira Mohammad](#)

**Related movies:**

[It's high time](#)

[Jeevika - Bihar Rural Livelihoods Project](#)

[Keonjhar cooking stove film: Let's build the future we want](#)

[Clean Cooking stoves](#)

[Know Your Goals Campaign](#)

[SDSN](#)

**3 February**

TERI Campus in Gawal Pahari & National Institute of Solar Energy (NISE)

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:30	Departure	
10:30-11:00	Welcome and opening remarks - Contribution of TERI towards sustainable energy	Amit Kumar, Dean, Distance and Short-term Education Programme, TERI University

11:00-13:30	Walk around TERI Campus and live demonstration of TERI's initiatives§ Solar Lanterns§ Solar water heaters§ Photovoltaic panels§ Biomass Gasifier§ Underground earth tunnels§ Energy-efficient lighting§ Waste-water recycling§ Biogas Plant	Suresh, Facility Manager TERI, Gawal Pahari, N. K. Ram, Fellow, TERI, Alekhya Datta, Associate Fellow, TERI
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15:00-16:30	National Institute of Solar Energy (NISE) Gurgaon (Govt of India's initiative)Grid and off-grid solar systems Thermal , PhotovoltaicSolar Biomass Hybrid Cold Storage	O. S. Sastry, Director General
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17:30-18:30	Field Trip Synthesis	Mario Tabucanon, UNU-IAS
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4 February

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:15-10:45	<a href="#"><u>Lecture 5: Research Method (Qualitative)</u></a>	Siti Das, Department of Policy Studies, TERI University
11:00-12:30	<a href="#"><u>Lecture 6: Research Method (Quantitative)</u></a>	Papiya Guha Mazumdar, Department of Policy Studies, TERI University
14:00-15:30	<a href="#"><u>Lecture 7: Reducing energy intensity of the Indian economy</u></a>	Ajay Mathur, Director General, Bureau of Energy Efficiency Rakesh Kumar Choudhary, Deputy Director, MSME

15:45-17:15 [Lecture 8: Energy use efficiency](#) Girish Sethi, Director, IEE, TERI

**Lecture summaries by students:**

[Lecture 5: Qualitative research methods](#)

[Lecture 6: Quantitative research methods by David Sparks](#)

[Lecture 7: Reducing energy intensity of the Indian economy by Ranaporn Tantiwechwuttikul](#)

[Lecture 8: Energy use efficiency](#)

**Related movies:**

[A unit saved is a unit earned](#)

[Ring the changes](#)

[Fueling change](#)

[Telling a complete story with qualitative and mixed methods research](#)

**5 February**

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:15-10:45	<a href="#">Lecture 9: Energy policy and governance and Q &amp; A</a>	Rakesh Kacker, Director India Habitat Centre
11:00-12:30	Lecture10: Economics of renewable energy and Q&A	Atul Kumar, Energy Technology System Analysis, TERI
14:00-15:30	Research proposal development	Mario Tabucanon, UNU-IAS
15:45-17:15	Introduction to 3 minutes thesis presentation	Mario Tabucanon, UNU-IAS Daniel Powell, UNU-IAS

**Lecture summaries by students:**

[Lecture 9: Energy policy and governance by Rui Wu](#)

[Lecture 10: Economics of renewable energy by Ram Kumar Singh and Manisha Singh](#)

**6 February** Field trip 2 - Ferozabad/ Agra

## 7 February

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
16:00-17:00	Workshop Session- Synthesis of Field Trip	Daniel Powell, UNU-IAS

**8 February** Field Trip 3: Visit to Chandigarh

PEDA-Punjab Energy Development Agency and Bharat Bricks Factory in Chandigarh.

## 9 February

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:15-10:45	Field trip synthesis	Christopher Doll, UNU-IAS, TERI
11:00-12:30	<a href="#">Research Communication</a>	Daniel Powell, UNU-IAS
14:00-15:30	Group work 1	
15:45-17:15	3-minute thesis practice	
17:30-19:00	Group Work 2	

**Related movie:**

[Plastic to Oil Fantastic](#)

## 10 February

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:15-10:45	<a href="#">Lecture 11 - Community Engagement and Capacity Building to facilitate conservation / efficiency</a>	<b>Soma Dutta,</b> ENERGIA, International Network on Gender and Sustainable Energy
11:00-12:30	<a href="#">Lecture 12- Waste to energy</a>	Suneel Pandey, Fellow, TERI
14:00-15:30	Group Work 3	
15:45-17:15	Group work 4	

**Lecture summaries by students:**

[Lecture 11: Community engagement and capacity building to facilitate conservation / efficiency](#)

[by Meenakshi Chaudhary and Saad Faruqui](#)

[Lecture 12: Waste to energy by Sourabh Manuja](#)

**Related movies:**

[A Bright Solution- Solar Sister \(2012\)](#)

[Cadence Mid-Kiln Technology for Mixing Alternative fuel with Mixing Air](#)

[How a waste-to-energy plant works](#)

[Landfill Methane Powers People's Homes](#)

[Macpresse - Valencia Spain Algimia SCT](#)

[Tech Kiosk by Kopernik- Making Simple, Life-changing Technology Available Across Indonesia](#)

**11 February**

<b>Time</b>	<b>Activity</b>	<b>Presenter</b>
09:15-10:45	Life after PhD	Cristina Rumbaitis, Action on Climate Today Preeti Agarwal, VIOM Networks Pooja Arora, TERI Christopher Doll, UNU- IAS
11:00-12:30	Group work 5	
14:00-15:30	3-minute thesis exercise	
15:45-17:15	Group work 6	

**12 February**

<b>Time</b>	<b>Activity</b>
09:15-10:45	Summary of lectures and evaluation
11:00-12:30	3-minutes thesis competition final
14:00-15:30	Research Proposal presentation and Discussions
15:45-17:15	Research Proposal presentation and Discussions
Evening	Gala Dinner