

SUSTAINABLE ENERGY TRANSITIONS INITIATIVE (SETI) THIRD ANNUAL MEETING

Duke University, Durham, NC, May 15-17, 2018

Environment Hall, Nicholas School of the Environment



Tuesday, May 15

- 7:30 am *First shuttle pick up at Durham Hotel*
- 8 – 8:30 am **Continental breakfast**
- 8:30 – 8:50 am **Introduction to SETI (Subhrendu Pattanayak; Marc Jeuland)**
Introduction to Energy Access Project (Jonathan Phillips)
- 8:50 – 10:30 am **Session 1: Electricity I (Chair: Jonathan Phillips)**
- M. Blimpo: Why is Household Electricity Uptake Low in Sub-Saharan Africa?
 - Y. Li: The Impact of Climate Change on the Residential Electricity Demand in China
 - F. Burlig: Determinants of the Cost of Electricity Supply in India
 - J.S. Tan Soo: How does time-of-use electricity prices affect daily reallocation of industrial pollution emissions: Evidence from a natural experiment in Anhui, China
- 10:30 – 11 am **Coffee break**
- 11 – 12:30 am **Session 2: Renewables (Chair: Robyn Meeks)**
- A. Sudarshan: The Demand for Off-grid Solar Power: Evidence from Rural India's Surprisingly Competitive Retail Power Market
 - M. Karumba: The impact of micro hydroelectricity on household welfare indicators
 - D. Bhattarai: What determines the demand for solar powered irrigation pumps?
- 12:30 – 1:15 pm **Get lunch; Mingle**
- 1:15 – 1:45 pm **Continue lunch; 5 speed talks from 1:15-1:45 pm (Chair: Faraz Usmani)**
- G. Bensch: The Effects of Market-based Reforms on Access to Electricity in Developing Countries: A Systematic Review of the Evidence on Effectiveness and Mechanism
 - M. Mandal: Sense-making in the face of uncertainty for electricity utilities in India using Revenue and Tariff Analysis for Electric Utilities (RATE) model
 - W. Akram: What drives to adopt and use biogas digester in rural Pakistan?
 - S. Lakhanapal: FIT, RPO and CDM: Explaining the variation in renewable installation through a case study of India's wind power sector from 2001-2010
 - T. Thinley: Free Electricity for Bhutan's Rural Poor: Conservation Strategy
- 1:45 pm – 3:30 pm **Session 3 (Parallel options)**
- Session 3A: Demand for cleaner cookstoves (Chair: Katie Dickinson) (2nd Floor, Room 2102)**
- K. Dickinson: Prices, Peers, and Perceptions: Field experiments in improved cookstove adoption in Ghana
 - I. Das: Women's bargaining power and household adoption of environmental health behaviors: Evidence from India
 - K. Rugaimukamu: Social networks and household energy transition in Tanzania: Evidence from panel data
 - A. Beyene: Analysis of adoption and impact of electric cook stoves on households energy expenditure: an application of endogenous switching regression
- Session 3B: Drivers of energy use / concepts of energy poverty (Chair: Erin Sills) (Field Auditorium)**
- F. Amuakwa-Mensah: Unveiling the energy saving role of banking performance in Sub-Saharan Africa
 - L. Le Roux: Stacking up the ladder: a panel data analysis of Tanzanian HH energy choices
 - Y. Alem: The Persistence of Energy Poverty: A Dynamic Probit Analysis
 - E. Sills: Intra-generational dimensions of household energy in rural South Africa

3:30 pm – 4 pm	Coffee and Networking Break
4 pm – 4:45 pm	More speed talks (Chair: Dalia Patino-Echeverri) <ul style="list-style-type: none"> • T. Harlan: Rural utility to low-carbon industry: Small hydropower and the industrialization of renewable energy in China • T. Fitch & E. Mueller: Assessing biomass-solar hybrid microgrids in the DRC through farmer surveys and economic modeling • D. Carrion: Predictors of Clean Cookstove Use in Kintampo, Ghana • P.D. Campoverde: Adoption and use of improved cookstoves in rural Mexico: A pilot project to test the role of economic incentives • R. Klege: Drivers of household energy use within Engel's curve framework: A evidence from Rwanda • S. Biswas: Re-imagining Energy Access: What is missing in global paradigms on energy systems design? • L. Kaack: Systemic energy technologies in low-carbon technology transfer • T. Klug: Selling stoves: Evidence from Senegal
4:45 – 5 pm	Break
5 – 6 pm	SETI assembly / business
6 pm	Dinner
7:30 pm	<i>First shuttle pick up at Krafthouse, Duke campus</i>

Wednesday, May 16

7:30 am	<i>First shuttle pick up at Durham Hotel</i>
8 – 8:30 am	Continental breakfast
8:30 – 8:45 am	Welcome and recap from Day 1 (Marc Jeuland; Subhrendu Pattanayak)
8:45 – 10:15 am	Session 4: Electricity II (Chair: Yonas Alem) <ul style="list-style-type: none"> • J. Mensah: Jobs! Electricity Shortages and Unemployment in Africa • T. Capitan: Time of Use Pricing and Residential Electricity Demand - Evidence from Costa Rica • F. Usmani: Fracking, farmers, and rural electrification in India
10:15 – 10:45 am	Coffee break
10:45 am – 12:30 pm	Session 5: Energy and firms (Chair: Jörg Peters) <ul style="list-style-type: none"> • H. Cardenas-Diaz: Interfuel Substitution in the Chilean Manufacturing Sector: A Factor Demand Analysis with Micro-data • G. Bensch: The market-based dissemination of modern-energy technologies as a business model for rural entrepreneurs- Evidence from Kenya • P. Jagger: Biomass burning among small-scale fish processors in Ghana: Implications for climate, health, and well-being • S. Hassen: Determinants of Enterprises Use of Energy Efficient Technologies: Evidence from Urban Ethiopia

- 12:30 – 1:15 pm **Get lunch; Mingling**
 1:15 – 1:45 pm **Continue lunch; 5 speed talks from 1:15-1:45pm (Chair: Yating Li)**
- A. Sharma: Impact of women's bargaining power on cook-fuel choice in India
 - A. Chatterjee: Kuznets curve in energy: Drivers of adoption of clean cooking fuels in rural India
 - M. Islam: Linking emissions and indoor air quality during a cookstove intervention trial in rural India
 - G. Blanco: Unleashing an energy transition in the Paraguayan industrial sector: an outlook
- 1:45 pm – 3:30 pm **Session 6 (Parallel options)**
Session 6A: Forests and biomass (Chair: Rob Bailis) (2nd Floor, Room 2102)
- R. Bailis: Potential environmental benefits from woodfuel transitions in Haiti: Geospatial scenarios to 2027
 - K. Hample: Effects of Improved Cookstove Use on Fuelwood Demand
 - D. Singh: Fuelwood Collection Polygons: a spatial analysis of fuelwood collection patterns in rural India
 - M. Talevi: Willingness to pay for improved cookstoves: selling ice to Eskimos?
- Session 6B: Household air pollution and transitions to clean fuels (Chair: Pam Jagger) (Field Auditorium)**
- A. Baliai: Centimeters and kilograms lost to smoke: Household air pollution, stunting and wasting in Indian children
 - R. Bluffstone: Does Use of the Mirt Stove Reduce PM2.5 Concentrations?
 - P. Jagger: Household air pollution exposures from indoor and outdoor cooking locations in Malawi and Rwanda
 - Imelda: Household Energy Transition, Health and Productivity: Evidence From Indonesia
- 3:30 – 4 pm **Coffee break**
- 4 – 5:15 pm **Session 7: Energy Transitions in India (Chair: Rob Fetter)**
- R. Bailis: LPG Adoption in South India
 - C. Gould: LPG as a Clean Cooking Fuel: Adoption, Use, and Impact in Rural India
 - E. Somanathan: Social Costs of Power from Coal and Renewables in India
- 5:15 pm **Energy Mix – Conversation and Heavy Hors d'Oeuvres (1st Floor of Environment Hall)**
- 7:30 pm *First shuttle pick up at Environment Hall*

Thursday, May 17

- 7:45 am *First shuttle pick up at Durham Hotel*
- 8 – 8:45 am **Continental breakfast**
- 8:45 – 9 am **Welcome and pivot (Jonathan Phillips)**
- 9 – 10:15 am **Connecting the SDGs: realizing the full developmental potential of energy on entrepreneurship, empowering women, improving health, and strengthening communities (Chair: Subhrendu Pattanayak)**
- Bjarne Steffen (ETH- Zürich)
 - Geoffrey Ronoh (Strathmore University)
 - Katherine Lucey (Solar Sister)
 - Jim Walker (SEforALL)

10:15 – 10:45 am	Coffee break + Group Photo outside
10:45 – 11:10 am	Speed Talks (Chair: Hannah Girardeau) <ul style="list-style-type: none"> • Lakshmi B.: Disjointed Connections: Transnational Drivers of Solar PV Market in Uganda • B. Steffen: The role of public investment & development banks in enabling or constraining new power generation technologies • P. Trotter: Foreign Finance to the Rescue? Analyzing and re-thinking electrification initiatives in sub-Saharan Africa
11:10 – 12:25 pm	What’s, Where’s, and How’s of off-grid policy development: What should be prioritized? Where are the key markets and opportunities for impact? How to achieve impact (Chair: Jonathan Phillips) <ul style="list-style-type: none"> • Jörg Peters (RWI) • Sasanka Thilakasiri (Oxfam) • Ruba Amarin (RTI) • Caroline McGregor (SEforALL)
12:25 – 12:55 pm	Grab lunch
12:55 – 1:45 pm	Lunch discussion: Systematic review Q&A (Marc & Jonathan) Complimentary perspective, determinants of productive use (James Morrissey, Oxfam)
1:45 – 3:00 pm	Harnessing the power of data analytics to assist energy access and transitions (Chair: Brian Murray) <ul style="list-style-type: none"> • Kyle Bradbury (Duke University) • Jay Taneja (UMass Amherst) • Nathan Williams (Carnegie Mellon University) • Johannes Urpelainen (Johns Hopkins University)
3:00 – 3:15 pm	Coffee Break
3:15 – 4:30 pm	Delivering cooking transitions that provide social benefits (Chair: Marc Jeuland) <ul style="list-style-type: none"> • Carlos Gould (Columbia University Mailman School of Public Health) • Neeraja Penumetcha (Global Alliance for Clean Cookstoves) • Martina Zahno (University of Zürich) • Subhrendu Pattanayak (Duke University)
4:30 – 5:00 pm	Wrap Up & Closing (Subhrendu Pattanayak)
5:15 pm	<i>First shuttle pick up at Environment Hall</i>
5:30 pm	Happy Hour for conference attendees staying in Durham