



International Conference on Energising the SDGs through appropriate technology and governance

Organised by the Institute of Energy and Sustainable Development, De Montfort University, Leicester, UK

4-5 July 2019

Venue: Queens Building Main Auditorium 1.10
De Montfort University, Leicester LE1 9BH

Programme

Day 1: 4th July 2019

Opening session (QB1.10)

9AM – 9.30AM: Registration

9.30-9.35 AM Welcome by Prof. Subhes Bhattacharyya

9.40 – 10.45 Keynote speech: **Optimistic Futures: Designing for Sustainable Living**, David Kester, Managing Director, DK&A and Design Thinkers Academy, London

10.45- 11.00 Tea break

Parallel Sessions 1 and 2: 11.00 to 12.30

Session 1: SDGs and the cities (QB1.10 – Main auditorium)

Session Chair: Dr. Andrew Mitchell, IESD

11.00 – Integrating the SDGs into Urban Climate Plans: Insights from Japan, Eric Zusman, Ryoko Nakano, Matthew Hengenbaugh, Tetsuro Yoshida, Fernando Ortiz-Moya, Institute for Global Environment Strategies (IGES), Japan

11.20 Integrating the SDGs into Urban Climate Plans: Insights from the UK, Subhes Bhattacharyya, Birgit Painter and Leticia Ozawa-Meida, IESD, DMU.

11.40 -12.00 Regional Circulating Economic Sphere and the SDGs – Fernando Moya-Ortiz, IGES, Japan

Q/A 12.00-12.30

Session 2: Energy access and the SDGs (QB 0.10)

Session Chair: Dr. Rupert Gammon, IESD

11.00 – 11.15 Solar Microgrid Social Enterprises as an Appropriate Mechanism for Achieving SDG7, Aran Eales, Damien Frame, Stuart Galloway, Scott Strachan, *University of Strathclyde, UK*

11.15 –11.30: Overcoming the bottleneck of weak grids: Reaching higher tiers of electrification with SHS for increased supply reliability, Martha Hoffmann, Setu Pelz, Philipp Blechinger, Reiner Lemoine Institute, Berlin/Germany

11.30 – 11.45: Maximizing the penetration levels of hybrid renewable energy systems in rural areas with demand side management approaches in achieving SDGs, Lanre Olatomiwa and Richard Blanchard, Loughborough University, UK.

11.45-12.00: Enabling the role of energy access in the SDGs for promoting sustainable development in Nigeria: a system thinking and modelling approach, Adedoyin Adeleke, Fabio Riva, Francesco Tonini, Emanuela Colombo, Politecnico di Milano - Department of Energy.

Q/A session 12.00 – 12.30

Lunch and networking 12.30 -13.30 (Queens Building Foyer)

Parallel sessions 3, 4, and 5 : 13.30-15.00

Session 3: Urban architecture and the SDGs (QB0.09)

Session Chair: Dr. Adriana Laura Massida, Institute of Architecture, DMU

13.30-13.50 Circular economy in architectural design as a contribution to reach the SDGs goals. Processes, opportunities and strategies of C&D urban processes, Massimiliano Condotta and Elisa Zatta, Università IUAV di Venezia, Italy

13.50 – 14.10 Vernacular architecture as a resource for resilient communities, Codina Elena Dusoiu and Tana Nicoleta Lascu, UAUIM, Romania.

14.10-14.30: Solar and geothermal energy for low-carbon space heating and energy independence, Evangelos I. Sakellariou, Andrew J. Wright, Muiyiwa A. Oyinlola, IESD

14.30 – 15.00 – Q/A session

Session 4: Renewable energies and the SDGs (QB 1.10)

Session Chair: Dr. Richard Snape, IESD

13.30 – 13.50 Effect of a closed loop cooling system upon the electrical output of solar photovoltaic (PV) panels, Rick Greenough, IESD

13.50-14.10 Biomass energy potential in rural communities, Bruno Medeiros Coelho; Dionízio Paschoareli Júnior, UNESP, Brazil

14.10 – 14.30 Integrating solar to ground seasonal heat storage for the small domestic heating sector in the UK: Experiments from a research prototype, Carlos Naranjo-Mendozaa; Richard M. Greenough; Andrew J. Wright, IESD



Q/A session 14.30-15.00

Session 5: Water and health issues in the SDGs (QB0.10)

Session Chair: Dr. Kutoma Wakunuma, Centre for Computing and Social Responsibility, DMU

13.30-13.50 Barriers to Monitoring Water and Sanitation delivery by
NGO's: Case Study Ghana, Hikima Jewu, Health and Life Sciences, DMU

13.50-14.10 -Implementation of water saving habits vs adoption of water saving
equipment to support sustainable development in South Africa, Djiby Thiam,
University of Cape Town, South Africa

14.10-14.30 Alternative innovation platform for medicine in developing
countries, Brigitte Granville and Eshref Trushin, UCL and DMU

Q/A session 14.30 -15.00

Tea break 15.00-15.30

Panel Discussion: 15.30 – 16.30

How can technology and governance support the Global Goals?

Panellists: Prof. Mark Lemon (IESD), Prof. Richard Werner (Business School), Dr.
Eric Zusman (IGES), Dr. Maurizio Sajeve

Moderator: Subhes Bhattacharyya

End of day 1

Day 2: 5th July 2019

Session 6: Presentations from a distance (QB0.10)

Session Chair and facilitator: Dr. Andrew Reeves (IESD)

9.30-9.50: Energy Access a Pathway to Achieve SDGs in South Asia, Rohit Magotra, Asha Kaushik, Jyoti K. Parikh, IRADE, India

9.50-10.10 - What determines uptake of modern fuel: A case study of India, Pooja Sankhyayan and Shyamasree Dasgupta, Indian Institute of Technology, Mandi, India

10.10-10.30 - Analysis of Brazil's funding structure designed to meet the Sustainable Development Goal 7 targets, Clarice Ferraz, University of Rio de Janeiro, Brazil

Q/A session 10.30-11.00

Tea Break 11.00-11.15

Parallel session 7 and 8: 11.15 -12.45

Session 7: Tools and evaluations (QB 1.10)

Session chair: Prof. Rick Greenough (IESD)

11.15-11.35 A SUSTAINABILITY COMPASS to help innovations and policies heading towards SDGs, Maurizio Sajevo, Finland

11.35-11.55 Is this working? Evaluating solutions for sustainable communities, Andrew Mitchell, Mark Lemon and Andrew Reeves (IESD)

11.55-12.15 A survey informed propositions for identification, salience and co-option of stakeholders for steering the SDGs in Sub-Saharan African Countries, Muhammad Abubakar (IESD)

Q/A session 12.15-12.45

Session 8: Business solutions to address the SDGs (QB 0.10)

Session chair: Prof. David Rae, Director Centre for Enterprise and Innovation (DMU)

11.15- 11.35 Women centred empowerment: developing solutions to improve living conditions in rural Mexico, Wastling, T., Sebastiampillai, S. , Liemberger, M., Dubreuil, X., Escamilla Greenham, P. , Mrzilek, J., Okpala, E. , Xue, J., Villa, R., Simms, N. and Encinas-Oropesa, A, (Cranfield and DMU)

11.35-11.55 Experiences from Deploying Off-Grid Local Energy Businesses in Rural Malawi, Damien Frame, Aran Eales, Stuart Galloway, Strathclyde University

11.55-12.15 Aggregators - A proposal to make distributed generation in RURAL settlements PROFITABLE, Mariana Costa Falcão; João carlos Pelicer Jr ; Luiz Otavio Manhani Machado ; Dionízio Paschoareli Júnior (presented by Bruno Medeiros UNESP), Brazil.

Q/A session 12.15-12.45

Lunch 12.45 - 13.30

Afternoon session: 13.30- 16.00

Workshop on SDG Compass (QB 1.10)

Facilitated by Dr. Maurizio Sajevo

End of conference