

2022 Annual EDITS Meeting Transformation to high wellbeing with low energy demand

30 August – 1 September 2022
Laxenburg Conference Center, Austria

Agenda

Background:

The Energy Demand changes Induced by Technological and Social innovations (EDITS) initiative was launched in 2019 to deepen the understanding of demand-driven energy system, energy and material demand projections centered around the technological-social-infrastructure interactions at global and granular levels, and their nexus with wellbeing and the SDGs. The EDITS community pursues collaborative research to identify gaps and potentials to enhance modeling, empirical analysis, and communication about demand-side solutions and an energy system transformation.

After two-years of being restrained to the online environment, the EDITS community will finally meet in person between 30 August and 1 September 2022 in Laxenburg, Austria. The Annual Meeting is co-organized by the [International Institute for Applied Systems Analysis \(IIASA\)](#) and the [Research Institute of Innovative Technology for the Earth \(RITE\)](#).

In the past, several inspiring and challenging subjects have been brought to the discussion table: the role of sufficiency and efficiency in the energy system transformation, real-life applications of LED solutions, examples of business models, the future of digitalization, viewpoints of different regions, and others. EDITS has been working on model mapping in the three key sectors: buildings, transport and industry. We have worked towards identifying data availability and gaps, as well as we are in the process of defining a framework for managing demand-related data. The narrative group has proposed a new LED-type scenario, the 'High-with-Low' Scenario, while the EDITS Protocol working group completed a test phase, preparing a cross-model exercise of the High-with-Low Scenario. To complete the picture, a multi-dimensional welfare and feasibility framework is under development.

The objectives of the 2022 Annual Meeting

The EDITS workshop 2022 is the fundamental basis for the collaborative research and modeling within the EDITS initiative during the upcoming year. Therefore, the meeting offers a forum for deep discussions on the one hand and a place to enhance specific workflows on the other hand.

The workshop will provide platform for dialogues on provocative topics, including (1) what is needed to make the global LED narrative relevant in the diverse subglobal context, (2) how to successfully present and communicate about LED scenarios, (3) what are the benefits of going towards LED futures.

At the same time, the community will pursue to progress towards research outputs. Each working group will have dedicated sessions to proceed with their on-going or upcoming work, while sessions to showcase relevant research are also organized.

More information about EDITS:

To know more about the EDITS initiative, go to the [website](#). General information and updates about the 2022 Annual EDITS Meeting are available [here](#). Furthermore, as an EDITS member, you can access documents from the EDITS sharepoint, including everything related to the [Annual Meeting 2022](#).

Travel and social events

Please see the Logistic Note [here](#).

DAY 1 - August 30, Tuesday

10:00 Shuttle bus pick-up from Vienna

10:30-11:00 Arrival and registration / welcome coffee

11:00-13:00 Session 1. How local can we go?

Marshallzimmer 1

Moderator: **Arnulf Grubler**, IIASA (Austria)

The session will open the 2022 EDITS Annual Meeting and it will recall the founding ideas of EDITS. We will review global and sub-global understanding of the LED scenario, including a presentation of the new High-with-Low scenario narrative. A panel of experts, with the involvement of the audience, will debate the influence of local context in specifying sub-global and national LED narratives.

11:00-11:15 Welcome and goals of the meeting

Keigo Akimoto, RITE (Japan) and **Bas van Ruijven**, IIASA (Austria)

11:15-11:30 The role of demand reduction and energy services in the Japanese policies

Mariko Takatani, METI (Japan)

11:30-13:00 Presentation of "the High-with-Low narrative"

Charlie Wilson, University of Oxford (UK)/ IIASA (Austria)

Panelists: **Albane Gaspard**, ADEME (France), **Yohei Yamaguchi**, Osaka University (Japan), **Kaveri Ashok**, CSTEP (India), **Roberto Schaeffer**, COPPE (Brazil)

General discussion on:

- What is the new High with Low narrative?
- How to transfer global low energy demand narratives to sub-global contexts
- What are essential differences between countries that modify the local LED-versions?
- Challenges for translating the High-with-Low narrative into modelling protocols

13:00-14:00 Lunch break

14:00-16:00 Visit to [Franzensburg](#) in Schlosspark Laxenburg.

16:00-18:15 Session 2. Parallel working group sessions

The working groups are the anchor of EDITS. The Parallel working group sessions are tailored to the current working stage of each. Participants can join any of the parallel sessions, contribute to on-going or emerging tasks, but can also use the time to socialize and/or organize other specific research ideas in the scope of EDITS (e.g. fast tracks).

Session 2.a. Working Group 1 – Buildings

Marshallzimmer 2

Co-leads: **Alessio Mastrucci**, IIASA (Austria) and **Leila Niamir**, IIASA (Austria)

Session content: Planning and drafting of the next working phase. The (ca. 3-4) pre-submitted topics will be presented by members in 5 minutes each. These research ideas will be further developed at the spot, leading to an extended outline and list of interested contributors.

Preparation: Please submit ideas that you are willing to pitch for in this [survey](#).

Session 2.b. Working Group 3 – Narratives

Marshallzimmer 1

Co-leads: **Arnulf Grubler**, IIASA (Austria) and **Charlie Wilson**, University of Oxford (UK)/ IIASA (Austria)

Session content:

- **Charlie Wilson:** presentation of High with Low narrative.
- **Arnulf Grubler:** quantifying consistent demands using the DETRAS framework.
- Round table comments by chairs of working groups (buildings, transport, industry).
- General discussion

Preparation: You can find the High-with-Low narrative [here](#), and the DETRAS [here](#).

18:15-21:00 Adjourn and departure to Social Event

18:15 Shuttle bus from Laxenburg to Vienna

19:00-21:00 **Dinner at Stöckl im Park** (Prinz Eugen Straße 25 A - 1030 Wien)

DAY 2 - August 31, Wednesday

08:00 Shuttle bus pick-up from Vienna

09:00-10:30 Session 3. How to sell a Low Energy Demand scenario?

Marshallzimmer 1

Moderator: **Diana Üрге-Vorsatz**, Central European University (Austria/Hungary)

The session will discuss experience and scientific evidence on how to communicate about complex solutions such as energy system transformation through energy demand reduction. We will talk about the differences in the framing in different regions, countries or communities. We will differentiate communication strategies depending on the target group, such as the general public, fellow researchers, or policy makers. There will be showcases of different media, including social networks that have proven effective in energy demand communication.

09:00-09:15 Winners of the Arts Competition and the story of the video

Adriana Hernandez, Futuregram (Austria)

09:15-09:25 Factors affecting/triggering public opinion

Linda Steg, University of Groningen (Netherlands)

09:25-09:35 Using social media to communicate about energy demand

Felix Creutzig, MCC (Germany)

09:35-09:45 Influencing policy through successful communication about sufficiency, the French example

Yves Marignac, NegaWatt (France) (TBC)

09:45-09:55 Global South perspectives on communicating low energy demand scenarios

Joyashree Roy, AIT (Thailand)

09:55-10:30 General discussion on:

- What is the message that can be well-received by the general public?
- Who needs to pick up the message?
- Is the message location specific?

10:30-11:00 Coffee break

11:00-13:00 Session 4. Parallel working group sessions

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Session 4.a. Working Group 3 – Model Complementary Protocol

Marshallzimmer 2

Co-leads: Masa Sugiyama and Bas van Ruijven

Session content: Presentation of the protocol testing phase and proposal of the process for the complementarity exercise. The group will discuss the indicator list and the process to be followed. We will have detailed discussions in two smaller groups: industry and buildings. Deadlines, tasks and activity lists will be discussed.

Preparation: Please comment on the list of variables [here](#). See instructions in Masa's email ("Survey on the model complementarity exercise," May 16).

Session 4.b. Working Group 1 – Transport

Marshallzimmer 1

Timing is foreseen to be ca. 12:00-13:15 after a general part of Session 4.a.

Co-leads: Luis Martinez and Paul Kishimoto

Session content: It will be partially a break-out group of Session 4.a. WG Protocol and partially a WG Transport Session.

The currently on-going paper draft will be extended and sub-sections will be discussed in small groups. The aim is to finish the draft paper soon after the meeting, therefore specific responsible parties will be identified for sub-chapters and draft contents will be reached by the end of this session.

13:00-14:30 Lunch break

14:30-15:15 Session 5. Fast-track proposals

Marshallzimmer 2

Moderator: **Joni Jupesta**, RITE (Japan)

To boost visibility of EDITS and demand side research in general, it was decided at the 1st EDITS Quarterly 2022 that the Community would like to aim for outputs that are very specifically targeted and produced quickly in a concerted manner. Proposals will be presented and discussed.

15:15-17:30 Session 6. EDITS-relevant research activities in the community

Marshallzimmer 1

Moderator: **Joni Jupesta**, RITE (Japan)

The EDITS activities are closely linked to the usual research interest of the members. The value of EDITS lies in combining running research in a broader perspective and find new concepts, novel ideas, reformulated methods. This session will showcase on-going internal research of the members that are relevant for the whole community.

Speakers can present their research in flash-talks in 3 minutes each, followed by posters in the coffee-room and further discussion over coffee and drinks.

18:00-21:15 Adjourn and departure to Social Event

18:00 Shuttle bus from Laxenburg to Gumpoldskirchen/Thalern

18:30-19:15 Walk in the vineyards (depending on the weather)

19:15-21:15 **Dinner at Krug** (Kirchenplatz 1, 2352 Gumpoldskirchen)

21:15 Shuttle bus from Gumpoldskirchen to Vienna

08:00 Shuttle bus pick-up from Vienna

09:00-11:00 Session 7. Parallel working group sessions

The working groups are the anchor of EDITS. The Parallel working group sessions are tailored to the current working stage of each. Participants can join any of the parallel sessions, contribute to on-going or emerging tasks, but can also use the time to socialize and/or organize other specific research ideas in the scope of EDITS (e.g. fast tracks).

Session 7.a. Working Group 1 – Industry

Marshallzimmer 2

Co-leads: **Dominik Wiedenhofer**, BOKU (Austria) and **Stefan Pauliuk**, University of Freiburg (Germany)

Session content: We will discuss and refine the results of the second round of literature collection & coding, with contributions from all co-authors. Remaining gaps in the model family overview and in the literature will be identified and responsibilities will be assigned as well as additional experts to be invited to contribute. We will discuss the existing structure & content of the review draft and prepare the detailed roadmap for the next WG meeting in October/November.

Preparation: Please check the to do list for the industry modelling review, available in the [sharepoint](#), sheet 'Workflow_Workspace'.

Session 7.b. Working Group 3 – Synthesis

Marshallzimmer 1

Co-leads: **Shonali Pachauri**, IIASA (Austria) and **Massimo Tavoni**, CMCC (Italy)
with presentation by **Elina Brutschin**, IIASA (Austria)

Session content: This session will present a theoretical framework for well-being/ feasibility analysis, discuss potential methodologies to derive key indicators of different well-being dimensions, and seek feedback from the EDITS consortium on the selected indicators and the potential to provide the model outputs/ variables required to construct these indicators.

11:00-11:30 Coffee break

11:30-13:00 Session 8. Multiple dimensions and benefits of demand side

Marshallzimmer 1

Moderator: **Joyashree Roy**, AIT, (Thailand)

We will take stock of the difference in understanding the multiple benefits of demand-driven energy system transformation and how these can be modeled. We will discuss limitations and what is needed to overcome them.

11:30-11:40 LED and the SDGs

Arnulf Grübler, IIASA (Austria)

11:40-11:50 Multiple benefits of energy demand on productivity and health

Souran Chatterjee, Central European University (Hungary)

11:50-12:00 LED and energy security

Felix Creutzig, MCC (Germany)

12:00-12:10 Macroeconomic multiple impacts

Nuno Bento, University Institute of Lisbon, DINÂMIA-CET (Portugal)

12:10-13:00 General discussion on:

- What multiple impacts are the most important to be incorporated into the discussions/models?
- How to communicate multiple impacts?
- How to model multiple impacts?

13:00-14:00 Lunch break

14:00-15:50 Session 9. Closing plenary with break-out groups

Marshallzimmer 1

Moderator: **Benigna Boza-Kiss**, IIASA (Austria)

Break-out groups to discuss the results of the Annual Meeting and to set out plans for the next year.

Good-bye words by TBC, IIASA (Austria) and Keigo Akimoto, RITE (Japan)

15:00 Shuttle bus to Vienna – see more in Logistic Note [here](#)

August 29, Monday OPTIONAL SIDE-EVENT

12:00 Shuttle bus pick-up from Vienna

12:30 Coffee and light lunch

13:00-17:00 Side-event for Working Group 2 Data

Gvishiani room

13.00: introduction round, collecting ideas and interest

13.30: presentation of the datagaps review structure

14.00: interactive discussion by working on few clear illustrative examples + formulate next steps review paper

15.00: break

15.30: presentation of the *demand side innovation* paper

16.00: discussion with group

17.00: closing

17:30 Shuttle bus back to Vienna