

Fostering changes in energy consumption: a pathway to demand reduction

Mara Thiene – Ayşen Sivrikaya

24th May 2023



Agenda

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Topics to be discussed

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Setting up the core e3s working group on demand reduction & pathway

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**Concept note Flagship Report
- Demand reduction**

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**Call for Abstract - Padova
Conference**



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Topics Sp 1

Topics to be discussed



1. Work **group(s)** on Demand Reduction building and composition
2. Flagship report Contribution
3. Padova Conference and Call for Abstract
4. White paper on Demand Reduction



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Setting up the core e3s WG on Demand Reduction & Pathway

The pathway and the e3s core WG on demand reduction



Why a temporary e3s core Work Group?

To steer the whole pathway heading the White Paper release in June 2024 along the following four steps

S1) e3s Scientific Conference Helsinki (24 may)

S2) DemRed dedicated Section in the EERA Flagship report (17 october)(-> Ganna to give an overview)

S3) Demand Reduction Conference in Padova (26 october)

S4) White Paper Release (June 2024)

About topics and research questions, a zooming process ?

- Questions from EERA and comprehensive state-of-the art in **S2**
- Narrowing to a subset in (and as a result of) **S3**
- Focusing in **S4** on a few e3s topics

e3s Pathway on demand reduction: timeline and outputs

➤ **16th May** -> first meeting of the core Working Group on demand reduction representing all SPs

➤ **Today 24th May (e3s Scientific Conference - Helsinki)**

1. Presenting the WG on demand reduction (involved coordinators of each SP)
2. Discussing the concept note of the flagship report, involving who wants to contribute
3. Finalizing the Call for abstract of Padova Conference (call open to who? e3s only?)

➤ **Next Steps**

1. EERA ASM (June 15-16 Madrid) -> presentation of the e3s DR pathway (given by Adel and /or Mara and/or Alessandro)
2. 1st deadline September 2023 draft of the flagship report (15-18 pp) for the High-Level Policy conference
3. High Level Policy conference (17 October- Brussel)-> presentation of the flagship report (given by Adel and /or Mara)
3. Padova Conference on Demand Reduction (26th October) -> moving from the Flagship Report to the White Paper (Include in the Call for Abstract a 6 months Research grant for **young researcher?**)
4. 2nd deadline Draft of the White Paper (May 2024)
5. White Paper release (June July 2024) -> a new e3s Scientific Conference

The WG(s) on demand reduction: **flexible composition**

The e3s core WG:

- Mara Thiene - Ayşen Sivrikaya **(SP1)** - coordination
- Manfred Paier **(SP2)**
- Witold - Roger Poganietz **(SP3)**
- Michael Belsnes **(SP4)**
- Tiina Koljonen **(SP5 and e3s ViceCoordinator)**
- Alessandro Sciullo **(e3s JPC)**
- Izaskun Jimenez **(e3s ViceCoordinator)** - available if needed

[Strong cooperation with the **EERA SEC** Ganna Gladkykh - Adel El Gammal]

Mandate: supervising the whole process and coordinating the White Paper release

Flexible teams for the different steps: how to build them? *decision to be taken*

S2) DemRed section in the flagship report (coord SEC) -> team = e3s Core Group + other e3s members + other JPs representatives

S3) Padova Conference (coord e3s Core WG) -> team = e3s Core Group + contributors (call open to EERA members only? Open to e3s members only?)

S4) White Paper (coord e3s core WG) -> team : e3s Core Group + Padova speakers (?) + other e3s members (?) + other JPs representatives (?)



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Concept note Flagship Report - Demand reduction

EERA flagship report 2023: Energy Demand Reduction

**Timeline: to be ready
by October 2023 (to
present at the High
Level Policy
Conference)**

**Writing team: EERA
Sec, e3s (+ inputs from
JP EEIP, JP Smart
Cities, JP Ocean)**

Starting questions:

- Can we say that driving CET without a strong energy demand reduction strategy is not feasible/compatible with net-zero goals? What is the evidence for this?
- Can we say that reaching REPowerEU by 2030 is not possible without a strong energy demand reduction strategy? What is the evidence for this?
- Can we say that the energy demand reduction strategy must include not only fossil fuel energy but any kind of energy? What is the evidence for this?
- To what extent are the current EU policies supporting energy demand reduction match with the calls for the demand reduction we are making in this paper? What can we recommend?
- To what extent is the current EU R&I agenda match the questions raised in this paper? What can be recommended?

EERA flagship report 2023: Energy Demand Reduction



Preliminary paper outline:

1. Setting the scene. Where we are now with energy demand. Globally and in the EU.
2. The current debate on the energy demand reduction in policy
3. The current debate on energy demand reduction in research *(key contributor – JP e3s)*
4. Discussion and final statements on the demand reduction perspectives
5. Policy recommendations (including R&I needs for further energy demand reduction research)

Demand Reduction section in the FR: concept note

- Discuss & agree on the structure of concept note for **flagship report**
 1. Setting the scene. Where we are now with energy demand. Globally and in the EU (**Ganna**).
 2. The current debate on the energy demand reduction in policy (**Ganna**)
 3. The current debate on energy demand reduction in research (let's stick with 3 topics) (**e3s**):
 - i. **Individual and collective behavioral change**
 - ii. **Energy efficiency**
 - iii. **Energy sufficiency**
 4. Discussion and final statements on the demand reduction perspectives (**Ganna**)
 5. Policy recommendations (including R&I needs for further energy demand reduction research) (**Ganna**)
- Contribution to main concepts by each SP:
 - Individual and collective behavioral change (**SP1 & SP2 – Alessandro Sciullo**)
 - Energy efficiency (**SP4 & SP3**)
 - Energy sufficiency (**SP5 & Alessandro Sciullo**)

Demand Reduction section in the FR: concept note

Topics & Subtopics

Topics		
Individual and collective behavioural change	Energy efficiency	Energy sufficiency
<ul style="list-style-type: none"> • Drivers • Barriers • Determinants of energy behaviours • Individuals' characteristics & behavioural choices • Individual vs collective demand reduction approaches • Beyond behaviors: social practices 	<ul style="list-style-type: none"> • The role of energy engineering • Rebound effects (substitution effect, income effect, etc.) • Spillovers from improved energy efficiency • Energy efficiency gap 	<ul style="list-style-type: none"> • The relationship between energy consumption and well-being • Pro-environmental behaviour • JET (energy poverty, gender issue, inclusion, ...) • Needs definition and analysis • Open issues : scale, time, equity • Role of technologies

Concept note Demand Reduction section

- Structure & timeline of individual contribution:
 - A 15-20 ish pages equally distributed
 - i. Individual and collective behavioral change (6 pages)**
 - ii. Energy efficiency (6 pages)**
 - iii. Energy sufficiency (6 pages)**

We estimate 1M effort to be collectively provided (best option) -> 2.3 days per month June to September
- Express your interest **in being committed by 2 June (module for Eols will be circulated)**
 - Which topic you would like to work on
 - What contribution you could provide
 - Guarantee time availability
- We might prepare a “template” to collect info following a similar structure to facilitate merging contributions, e.g.
 - Motivation and background
 - State of the art
 - Policy and research Challenges
 - References
- Timeline: to be delivered **by end August**



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Call for Abstract- Padova Conference

Call for Abstract- Padova Conference



- **General information**

- October 25th: General Assembly
- October 26th: Demand Reduction Conference
- Key note speakers (1-2)(Adel/Secretariat will help identify them)

- **Call for abstract (to be discussed/refined):**

- mirrors topics and subtopics of Flagship Report (contributions of the Padova conference will be embedded in the **White Paper**)

Decisions to be taken

1. Call for Abstract for Padova Conference on Demand Reduction (26th October) -> moving from the Flagship Report to the White Paper:
 1. Refine topics & subtopics (subset of Flagship Report)
 2. Include in the Call for Abstract a 6 months Research grant for young researcher?
 - Yes/no
 - Which institution will open the position? (€)

2. Flexible teams for the different steps: how to build them? *decision to be taken*

- **S2)** DemRed section in the flagship report (coord SEC) -> team = e3s Core Group + other e3s members + other JPs representatives
- **S3)** Padova Conference (coord e3s Core WG) -> team = e3s Core Group + contributors (call open to EERA members only? Open to e3s members only?)
- **S4)** White Paper (coord e3s core WG) -> team : e3s Core Group + Padova speakers (?) + other e3s members (?) + other JPs representatives (?)



Thank you
www.eera-set.eu

mara.thiene@unipd.it