



# European Energy Network

A voluntary network of European energy agencies

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## EnR M71 Regular Meeting

Lisbon | 7-8 June 2022



**June 7 | Agenda |** Lisbon City Hall ([Google Maps link](#))

## **EnR Regular Meeting**

### **Opening Session**

09:30 – 09:40 | Welcome and opening | **Nelson Lage**, President of EnR and ADENE

09:40 – 09:50 | Welcome by Lisbon Municipality | **CML** (*tbc*)

09:50 – 09:55 | M71 Agenda | **Luís Silva**, Cooperation and Institutional Affairs Director at ADENE

09:55 – 10:30 | EnR Presidency 2022 activities updates

10:30 – 11:00 | *Coffee-break*

11:00 – 11:55 | EnR Presidency 2022 activities updates (*cont.*)

### **Working Group Updates**

11:55 – 12:55 | Working Group Updates

12:55 – 14:30 | *Lunch (served on site)*

14:30 – 15:00 | *Technical Visit – City Hall Building (tbc)*

15:00 – 15:40 | Working Group Updates (*cont.*)

### **Youth in the Energy Transition**

15:40 – 16:10 | EYEN, European Youth Energy Network | **Miguel Mósca**

16:10 – 16:40 | EnR Member Agencies youth initiatives | *tour-de-table*

16:40 – 17:00 | EnR at the 1st European Youth Energy Forum

17:00 – 17:30 | *Coffee-break*

19:30 – 22:00 | *Dinner (location tbd)*



# European Energy Network

A voluntary network of European energy agencies

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## EnR Working Groups

Updates on activities and collaboration

EnR M71 Regular Meeting | Lisbon, June 7-8 2022



## Working Group Updates | General

- Next evaluations at M72 Regular and Full Meeting
  - ✓ Energy Efficiency
  - ✓ Renewable Energy
- Inter-WG cooperation
- 2 WG chair vacancies open



# Industry & Enterprises





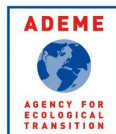
# Industry & Enterprises WG

Working Group Chair



ITALIAN NATIONAL AGENCY FOR NEW TECHNOLOGIES,  
ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT

## EnR Member Agencies



## Non EnR WG members





# Industry & Enterprises | Main Activities and Events

First semester 2022:

- WG meeting (January), workshop with the EEFIG Industry WG (April); Eceee (June);
- Lithuanian National Agency joined the WG;
- Focused on SMEs (9 Agencies, LEAP4SME): Report on Energy audit and energy efficiency programmes in SMEs in Europe; two collaborative initiatives with Interreg/H2020; launch of National trainings and observatories.



# Meeting the EEFIG IWG

Presentation/lecture on the state of art of EE  
in Industry and SMEs plus tailored outcomes  
for National Agencies and Governments



European Energy Network

## AGENDA

### Financing Energy Efficiency in Industry and Enterprises

30<sup>th</sup> March 2022 (14.30 – 16.00)

14.30 Welcome and introduction *Enrico Biele, EnR IWG*

14.40 EEFIG Working Group on Further improvements of energy efficiency in industry

*Rod Janssen, EEIP, EEFIG Working Group Team Lead*

15.05 Linking National Agencies' activities with Energy Efficiency Finance in Industry and SMEs

- *Experiences from the Maltese Energy and Water Agency*

*Lorna Taliana Mintoff, EWA*

- *Experiences from the Swedish Energy Agency*

*Thomas Björkman, SEA*

15.30 Open discussion

**Participants and speakers**





## Session on industrial energy efficiency organized within the Eceee 2022 Summer Study

**Date** | 7 June 2022

**Format** | In person

(Hyères, South of France)

**Participants** | 5/6 EnR member Agencies, scientists, analysts and practitioners from all around Europe



### AGENDA

First part	
14.00 Introduction and context	Enrico Biele, EnR IWG Chair, Thomas Björkman, SEA
14.15 Energy Audits policy implementation in three EU Countries: experiences from Portugal, Austria and Sweden	Paulo Calau, ADENE Gabriele Brandl, AEA, LEAP4SME T. Björkman/A. Pousette, SEA
14.40 The EED article 8 implementation and the new article 11  Main topics: Energy audits and Energy management systems according to EED article 8; SMEs and Energy Intensive SMEs; industrial energy efficiency in the EED.	Paulo Calau, ADENE; Gabriele Brandl, AEA; Enrico Biele, ENEA; Ámin Böhm, MEKH; Thomas Björkman, SEA; all ECEEE summer school interested participants. Moderator: Anders Pousette, SEA
Second part	
15.30-17.00 EnR Industry & Enterprises Working Group Open meeting and discussion	ECEEE participants, National Agencies



LEAP4SME (ADENE, AEA,  
CRES, ENEA, EIHP, EST,  
EWA, KAPE, SIEA)



18 May 2022

LEAP4SME Event  
Collaborative workshop for H2020 and  
Interreg projects



7 April 2022

External Event  
European Energy Efficiency Conference



19 January 2022

LEAP4SME Event  
Peer learning workshop

## Events | LEAP4SME

### EVENTS

Internal and external events LEAP4SME is organising or participating to:

Collaborative/peer learning workshops:  
CRES presentation/coordination with the  
involvement of ENEA, ADENE, EWA

Energy Efficiency Conference: AEA  
presenting onsite



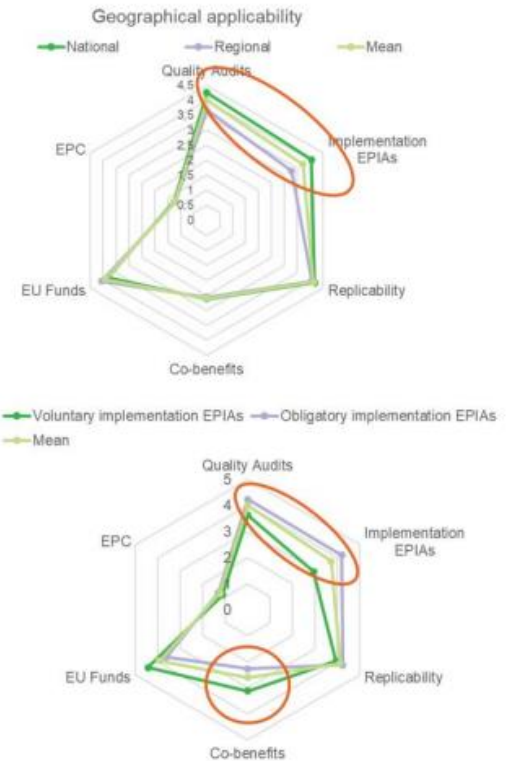
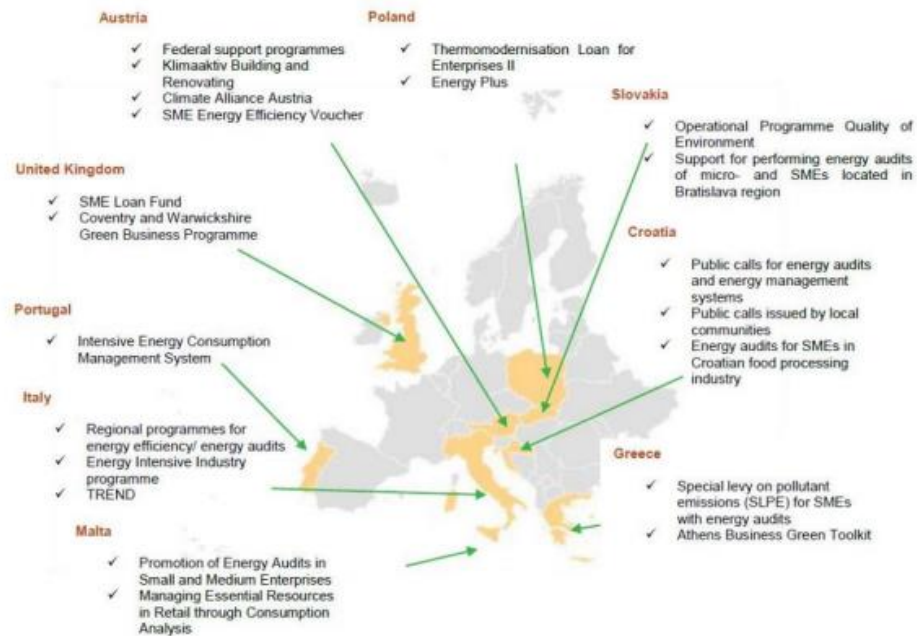
This project has received funding from the European Union's  
Horizon 2020 Research and Innovation Programme under grant  
agreement No 893924.



LEAP4SME (ADENE, AEA, CRES, ENEA, EIHP, EST, EWA, KAPE, SIEA)

Analysis and assessment, from the perspective of nine National Agencies, of good practices (policies, programmes, initiatives) in SMEs. Report to be published by the end of this month.

## Deliverables | LEAP4SME



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 893924.





# Thank you!

Working Group Chair

**Enrico Biele**

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ITALIAN NATIONAL AGENCY FOR NEW TECHNOLOGIES,  
ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT



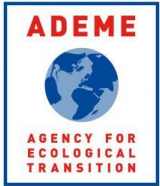
# Monitoring Tools



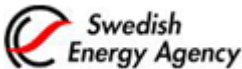
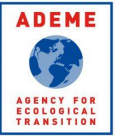


# Monitoring Tools WG

Working Group Chair



EnR Member Agencies





Co-funded by the Horizon 2020 programme  
of the European Union



ODYSSEE-MURE

**M71 Regular EnR meeting : June 2022**

**WG “decision support tools for Energy Efficiency policies evaluation”**

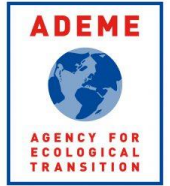
**So-called WG “Monitoring tools”**

*Dr Didier Bosseboeuf, ADEME; WG Chair*





## WG “Monitoring tools : Achievements



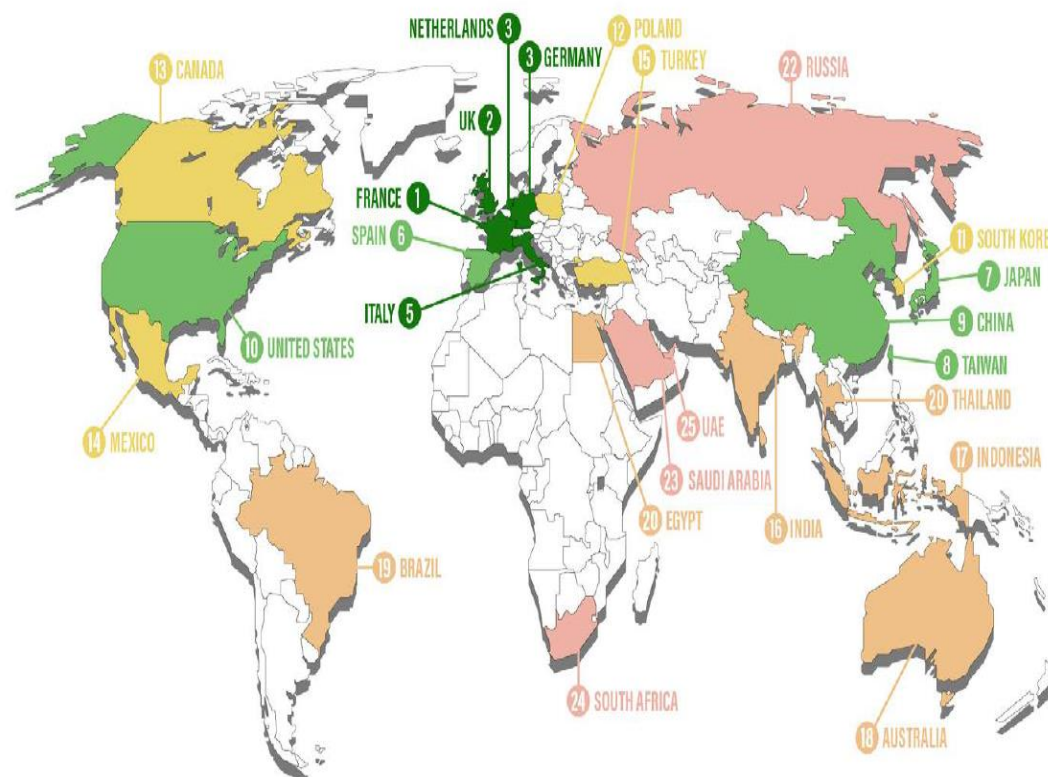
- ✓ Final technical and financial reports has been submitted to CINEA (End of January 2022)
- ✓ Based on the comments of CINEA, a revised financial and technical reports will be send (very soon)
- ✓ **Our proposal “ODYSSEE-MURE fit for 55” submitted to to LIFE-CET has been “again” successfully evaluated by the Commission.**
- ✓ ADEME as coordinator thanks all the 40 partners (20 EnR agencies) which have contributed collectively to this success.
- ✓ Administratives issues (Grant agreement sig,nature) are on going with a deadline of July 7th 2022.



## France is worldchampionship on energy efficiency (ACEEE) and bronze medal at European level (ODYSSEE-ECEEE)



THE 2022 INTERNATIONAL ENERGY EFFICIENCY SCORECARD

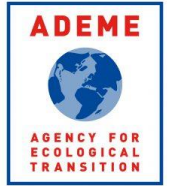


ACEEE  
American Council for an Energy-Efficient Economy

1-5 6-10 11-15 16-20 21-25



# The new proposal 2022-2025 in brief

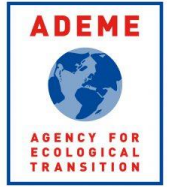


- **Programme** : LIFE-CET
  - **Topic**: Towards an effective implementation of key legislation in the field of sustainable energy policy
  - **Duration** : 30 months, starting **October 2022**
  - **Funding** : around 2 M€, 95% direct cost, 7% overhead
  - **40 partners of which 18 EnR members, of which 9 Balkans countries, coordinated by ADEME, 30 letters of support including EnR club**
  - Updates of ODYSSEE (3) and MURE databases (2) and facilities
  - Support in capacity building for EC countries by Croatia and other partners
  - Odyssee: **New updating process**, using more widely EUROSTAT data and horizontal sources
  - Integration of a web-based **Policy Assessment Tool Policy radar** (based on Artificial Intelligence AI/Web scraping methods)
  - Dissemination of the Odyssee-MURE/eceee European EE Scoreboard: **social media**
-





## Future prospects



- Participation to ECEEE summer study (On going)
- Participation to EIB workshop on EE Investment (on going)
- KO meeting ODYSSEE-MURE (November 2022 or February 2023)
- 1<sup>st</sup> Regional meeting ODYSSEE-MURE June 2023 (Italy, Enea?)
- ODYSSEE-Methodology currently applied in:
  - India (ADEME-BEE cooperation,
  - In 8 SMECs (Medener and RCREEE through EC funding) Next meeting 15<sup>th</sup> of July in Jordan)
  - In 15 LAC's with UN-CEPAL with AFD funding (Next regional meeting (Columbia, End of June 2022)



# ABOUT THE ODYSSEE-MURE PROJECT

Comprehensive monitoring of efficiency trends and policy evaluation in EU countries, Norway, Serbia, Switzerland and the United Kingdom.

[LEARN MORE](#)



## ABOUT ODYSSEE

Database on energy efficiency indicators and energy consumption by end-use and their underlying drivers in industry, transport and buildings.

[Learn more](#)



## ABOUT MURE

Database on energy efficiency policies and measures by country in industry, transport and buildings.

[Learn more](#)

## LATEST NEWS

 **30 NOVEMBER 2021**

On November 30<sup>th</sup> the Odyssee-Mure project hosted a live webinar: **“Recent energy efficiency trends in the EU”** (by L. Sudries and B. Lapillonne, Enerdata).

 **28 SEPTEMBER 2021**

**3 webinars** have recently taken place:

**MARKET  
DIFFUSION**



**DECOMPOSITION**



**COMPARISON**



**ENERGY SAVING**



**ENERGY  
EFFICIENCY  
SCOREBOARD**



**SUCCESSFUL  
MEASURES**



**POLICY MAPPER**



**ENERGY  
EFFICIENCY  
SCOREBOARD**





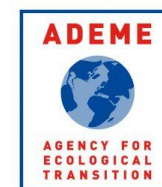


# Thank you!

Working Group Chair

**Didier Bosseboeuf**

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# Behaviour Change





# Behaviour Change WG

Working Group Chair

Currently no  
chair

## EnR Member Agencies



## Non EnR WG members





# Behaviour Change | Context

- ToR Working Group Objectives for 2022
  1. Keep members up to date with latest policy developments and the latest work of other relevant networks
  2. Capacity building and enhancing the knowledge of EnR members on the topic of behaviour change.
  3. Influence policy making: Raise the profile of behaviour change among policy stakeholders, so that behaviour change is considered more systematically within the energy policy design and implementation process.



# Milestones

## How to achieve objective 1:

- by following the developments of the European Commission and the European Parliament regarding the topic of behaviour change, awareness raising and promotion
- by liaising with related networks and communities
- by bringing energy agencies together with leading social scientists / networks

## How to achieve objective 2:

- by exchanging information between EnR members on the evolving role of behaviour change activities in national strategies, policies and programmes;
- by identifying best practice and success stories in behaviour change;
- by looking for opportunities to deliver joint activities/projects that enhance the EnR members understanding of behaviour change
- by monitoring and learning from the results of national behaviour change programmes and policies.



# Milestones

## How to achieve objective 3:

- by sharing learnings and outputs from the working group with policy stakeholders;
- by participation/contribution in relevant events (e.g., BEHAVE-conferences), enlarging networks and proactive communication with a broader network.





# Behaviour Change | Activities and Events

- ADENE-PT is proposing new WG on Water and Energy Nexus in the 2022 presidency - task force launch 2022 [done], full launch 2023. One of the initial activities will be a consumer survey on willingness to choose combined water-energy savings in taps & showers, using labelling to raise awareness
- EIHP-HR, Project Label 2020 <https://cordis.europa.eu/project/id/847062>; official presentation recently; tools to inform the consumer on energy and water savings; QR code tells you energy and water consumption to know which appliances are more environmentally friendly; calculator tool to calculate existing equipment characteristics; youtube channel with short videos on how to have all the information needed when choosing new equipment
- EIHP-HR, The building where EIHP is located will become a training centre for SMEs, public and private entities
- EST UK is working on an advice service for SME - Business Energy Scotland <https://energysavingtrust.org.uk/business-energy-scotland-service-will-support-smes-on-path-to-net-zero-from-april-2022/> (Previously it was the Scottish Government's energy efficiency support and advice service for Scotland's small and medium sized enterprises (SMEs) and now it will continue as "Business Energy Scotland" from 1 April 2022); Business Energy Scotland will include an energy assessment for the business, a report summarizing recommendations and advice on implementing recommendations and changes identified; holistic service from advice to implementation, incl. financing



# Behaviour Change | Activities and Events, cont.

- ENEA-IT, Ministry has renewed the program so education activities will be on the agenda and a lot of projects with behavioural insights will be developed: energy poverty, use of renewables, engaging communities; Renovation Wave - there are a lot of subsidies to renovate houses, there is a concern with the rebound effect if there is no education on energy consumption/energy management, so behavioural training will be developed
- RVO-NL, Behavioural insights team was set up in RVO under the leadership of Barto Piersma, Former Chair of EnR
- CRES-GR, Two projects ongoing working on social acceptance of carbon capture and storage; MOF4air project: How to consider social issues in carbon capture and storage in industry (Project description: <https://cordis.europa.eu/project/id/837975> - Metal Organic Frameworks for carbon dioxide adsorption processes in power production and energy Intensive industries); Digimon - developing and demonstrating an affordable, smart, flexible and societally embedded Digital Monitoring early-warning system, for monitoring any CO2 storage reservoir and subsurface barrier system
- Motiva-FI, Campaign on using wood in public construction projects: 25% of Finnish municipalities engaged; Public procurement: awareness raising and behaviour change in the procurement technicians; Energy advice: raise awareness on heating appliances replacement from fossil fuels
- IEA - new group on public engagement (includes also members of EnR: RVO, and others from SE, UK and other countries not in this WG)





# Other Business

- The Working Group has currently no chair
- On the #2 Troika Meeting, ADEME and RVO have shown interest to Chair the group



# Thank you!

*On behalf of the Working Group*

**Lea Gynther**

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# Buildings





# Buildings WG

## Working Group Chair

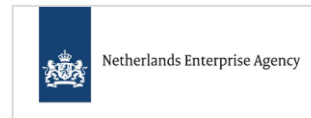


Agência para a Energia

## EnR Member Agencies



Agência para a Energia



## Non EnR WG members





# Buildings | Context



Agência para a Energia

- ToR Working Group Objectives for 2022
  1. Promote ADEME's study related with Agencies and the Renovation Wave
  2. 2021 EPBD proposal
  3. Long-Term Renovation Strategies (LTRS)
  4. Joint projects and new proposals
  5. Participation in events representing ther EnR/BWG



# Buildings | BWG projects radar



Agência para a Energia

## X-Tendo - September 2019 - August 2022

- Provide public authorities and implementing agencies with **improved compliance, reliability, usability and convergence of next-generation energy performance assessment and certification**
- **EnR members:** ADENE, CRES, DEA, ENEA, EST



## QualDeEPC - September 2019 – February 2022

- Increasing the **quality and cross-EU convergence of Energy Performance Certificate (EPC) schemes** and enhancing the **link between EPCs and deep renovation**.
- **EnR members:** DENA, CRES and Escan



## iBRoad2EPC - September 2021 - August 2024

- iBRoad2EPC aims to **bridge the Building Renovation Passport with the EPC**, and expand, improve and broaden their format and joint scope to consider additional features and become applicable also to multi-family and public buildings
- **EnR members:** ADENE, KAPE





# Buildings | Project's proposals

- **HEUDIPAC: Harmonized, Efficient, User friendly, Digital and Integrative Energy Performance Assessment and Certification methodology** (deadline 19 October 2021) (HORIZON CL5-2021-D4-01-01 Advanced energy performance assessment and certification)
  - ADENE; CRES
- **REDI4HEAT: RED implementation for heating and cooling** (deadline 12 January 2022) (LIFE-2021-CET-POLICY)
  - ADENE; CRES; DENA; EIHP; KAPE
- **SRI2MARKET: Creating the conditions for a global improvement of smart readiness of European buildings** (deadline 12 January 2022) (LIFE-2021-CET-SMARTREADY)
  - ADENE; EIHP
- **SRIuptake - Replicable SRI Uptake through Universal App for EPC Experts** (deadline 12 January 2022) (LIFE-2021-CET-SMARTREADY)
  - ENEA; KAPE
- **Coolmed: Cooling the Built Environment in the Mediterranean** (deadline 12 January 2022) (LIFE-2021-CET)
  - ADENE; CRES; ENEA





# Buildings | Activities and Events



Agência para a Energia

## Recent activities

- **2022.03 - EEFIG WG** – *“Role of EnR agencies implementing the Renovation Wave”*
  - Presentation of ADEME’s study related with renovation wave
- **2022.04 - CoR** – *“Making the renovation wave happen though the new Energy Performance of Buildings Directive”*
  - EnR views and proposals on the directive
- **2022.05 - EEFIG WG** - *“Stimulating Demand for Energy Efficiency Investments”* - Actions from EnR Agencies
  - “ADEME’s study on RW”, “EnR catalogue of BP related with behavioural insights” and “EnR Library of best practices”
  - EnR examples on “Awareness raising & advice”; “One-Stop-Shops”; “Financing and incentives programs”
- **2022.05 - BWG | Webinar** *“EPBD 2021 – Challenges and opportunities | From MEPS to ZEB”*





# Buildings WG | Webinar

## EPBD 2021 – Challenges and opportunities | *From MEPS to ZEB*

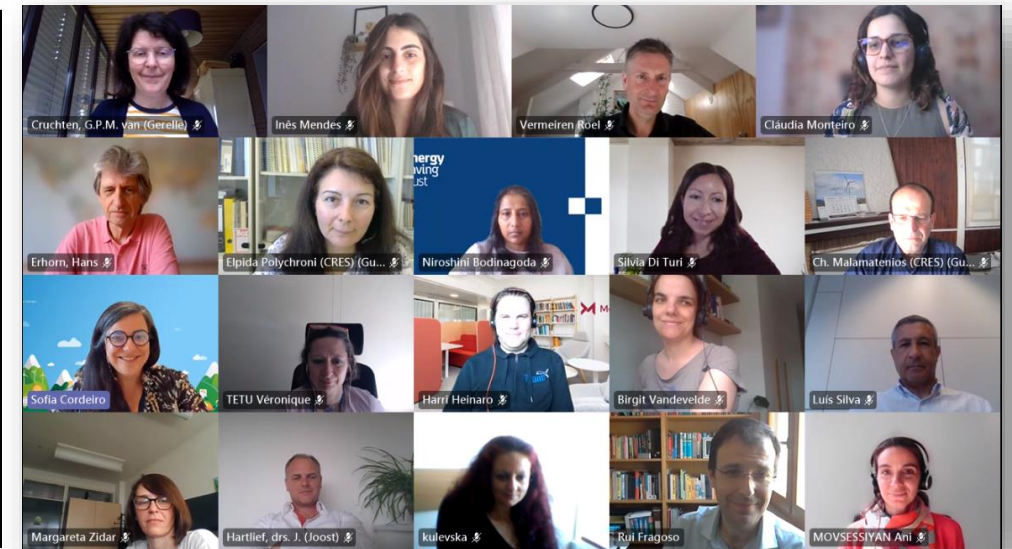
**Goal** | Discuss the EPBD revision and share MEPS/ZEB implementation best practice examples

**Date** | 10 May, 10h15-12h00 (CET)

**Target** | Internal EnR meeting, 37 participants (8 BWG) | 12 EnR agencies + 2 ext BWG members

**Format** | online

(CET)	Topic	Speaker
10:15	Opening and welcome	<b>Nelson Lage</b> , Chairman of the Board of Directors, ADENE, Portugal; EnR President 2022
10:25	<b>EPBD 2021 proposal – Main highlights</b>	<b>Pau Garcia Audi</b> , DG ENER, European Commission
10:45	Q&A	
10:55	<b>Minimum Energy Performance Standards (MEPS): Challenges and opportunities</b>	<b>Roel Vermeiren</b> , Flanders Energy Agency, Belgium
11:15	Q&A	
11:25	<b>Zero Emission Buildings (ZEB): Challenges and opportunities</b>	<b>Hans Erhorn</b> , Principal Adviser for Fraunhofer Institute for Building Physics (IBP), Germany
11:45	Q&A	
11:55	Conclusion and session wrap-up	<b>Rui Fragoso</b> , BWG chair, ADENE





# Buildings | Activities and Events

## Underway

- **Development of survey entitled “*Long Term Renovation Strategies - An update on the status of implementation across Europe*”** - EnR Agencies' survey of the status of implementation of LTRS
  - Survey will be based on **answers from the BWG members**
  - Answers provided will be **statistically analysed** and will not be published displaying individual country information
  - **Empower BWG with better knowledge about the involvement of agencies on the LTRS** and of course make echo of that involvement when relevant/need.
- Answers expected by June 2022.



# Buildings | Activities and Events



Agência para a Energia

## Future

### ➤ Public EnR BWG session related with the LTRS

- Current status with best practices from MS,
  - Challenges and opportunities
  - Future evolution from LTRS to “National Renovation Plans” like foreseen in the EPBD
- 
- Session expected for **September 27<sup>th</sup>**, in the morning



# Thank you!

Working Group Chair

**Rui Fragoso**

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Agência para a Energia



# Energy Efficiency







# Energy Efficiency WG

Working Group Chair



## EnR Member Agencies



## Non EnR WG members





# Energy Efficiency | ToR for 2021/2022



- Energy Efficiency First Principle
  - Assessment on Decision making & Planning
  - Application to policies & measures
  - Spread to regional, local and private levels
- What is the role of Energy Agencies in EE directive implementation (ambition, broader scope, public sector, energy poverty).
- How the existing Funding (The fund, Resilience fund, Cohesion policy, Just Transition) would be optimally used? How the cost assessment of policies could be estimated ?
- What is the role of EE policies in just transition?
- New topics: Energy & Water nexus



# Energy Efficiency | Activities and Events



- Two working meetings (2021 – 2022)
  - Participation to proposals but not concrete WG proposas.
  - Participation in sectoral work (buildings, industry, transport, behavioral, monitoring)
  - *Difficult to work virtually, especially when no backbone projects exist.*
  - *Need to review the unique and common areas with other WG's*
-



# Energy Efficiency | Planning



- **Surveys**, to be conducted among EnR members, on the priorities and potentials.
- Assessment of the new **role** of **Energy Agencies** in EE policy implementation
- **Energy Efficiency First** – a basic priority for WG.
- The stimulation of discussion for EEWG future, in view of next full meeting evaluation.
- Assess **challenging** areas...



# Thank you!

Working Group Chair

**Vassilis Kilias**

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# Labelling & Ecodesign





# EcoDesign & Labelling WG

Working Group Chair

**energy  
saving  
trust**

## EnR Member Agencies



## Non EnR WG members



BUSH ENERGIE





# EcoDesign & Labelling WG | Activities and Events

**energy**  
saving  
trust

## **Last meeting: 3<sup>rd</sup> May**

- Presentation from ECOS on their health & climate report on Solid Fuel Boilers
- Regular updates from members on activities taking place under EU programmes

## **Next meeting: 5<sup>th</sup> July**

- Presentation from Adene on HARP and labelling of existing heating systems



# EcoDesign & Labelling WG | Future plans



## Working Group Chair

- EST unable to continue in this role in the long term. Will continue as a member
- Have reached out to members to see if there is interest in taking over the role
- No feedback as yet, will include in July meeting agenda



# Thank you!

*on behalf of the Working Group Chair*

**Adrianna Threpsiadi**

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**energy  
saving  
trust**



# Renewable Energy



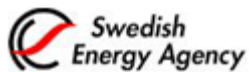


# Renewable Energy WG

Working Group Chair



## EnR Member Agencies



## Non EnR WG members





# Renewable Energy | Context

- ToR Working Group Objectives for 2022
  - Relaunch of Working Group
  - Regular meetings to ensure exchange regarding renewable energies
  - Focus topic exchanges
    - Offshore and grid connection
    - Energy communities
    - Renewable heating and cooling
    - Power purchase agreements
- Milestones
  - Energy communities publication: Energy Communities – Accelerators of the decentralised energy transition
  - REDI4HEAT – Transposition of Renewable Energy Directive II



# Renewable Energy | Activities and Events

- Past (since Feb-22)
  - Relaunch of working group
- Underway
  - Exchange with other working groups
  - Focus topics identification and overlaps
- Future
  - Next WG meeting Sept. 22
  - Publications?





# Thank you!

Working Group Chair

**Antonia Munz**

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# Transport





# Transport WG

## EnR Member Agencies



## Working Group Chair

**energy  
saving  
trust**





# Transport | Context

- ToR Working Group Objectives for 2022
  - **Exchange** of developments, **information** and **experience** on national policies.
  - **Strengthen cooperation** between WG members.
  - **Identify best practice and success stories** in the deployment of energy efficiency within mobility and seek its wider dissemination.
  - Initiation of joint activities/ projects.
  - **Follow the developments** and European debate **on new policy** challenges
- Milestones (selected)
  - **By 2030** - At least 30 million zero-emission (at tailpipe) cars will be in operation on European roads
  - **By 2050** - Nearly all cars, vans, buses as well as new heavy-duty vehicles will be zero-emission (at tailpipe)



# Transport | Activities and Events

- Limited activity since Feb-22 due to other work commitments of WG Chair

Date	
23 June 2022	Hermann Sherrer (Swiss Energy) retires!
15 September 2022	eMobiCity Project - Update
01 December 2022	CountEmissions EU – DG for Mobility & Transport
07 February 2023	Pre- regular meeting call





## Transport | Activities and Events

**energy**  
saving  
trust





# Thank you!

Working Group Chair

**Colin Smith**

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**energy  
saving  
trust**

# Water Energy Nexus task force







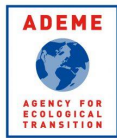
# Water Energy Nexus task force

Working Group Chair



Agência para a Energia

## EnR Member Agencies



Agência para a Energia



## Studies' Steering Committees / Surveys



## Still to captivate :-)







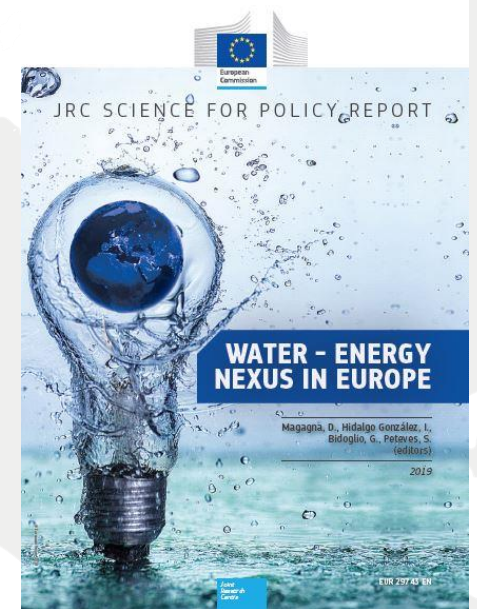
# Water Energy Nexus Challenges



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*Water availability is among the key constraints affecting the European energy sector, which currently requires 74 billion m<sup>3</sup>/year of freshwater, similar to the water needs of agriculture.*

*The decarbonisation of the energy system could reduce its water needs by 38 % by 2050, yet water availability will play an essential role on the way to climate neutrality by 2050.*



<https://publications.jrc.ec.europa.eu/repository/handle/JRC115853>



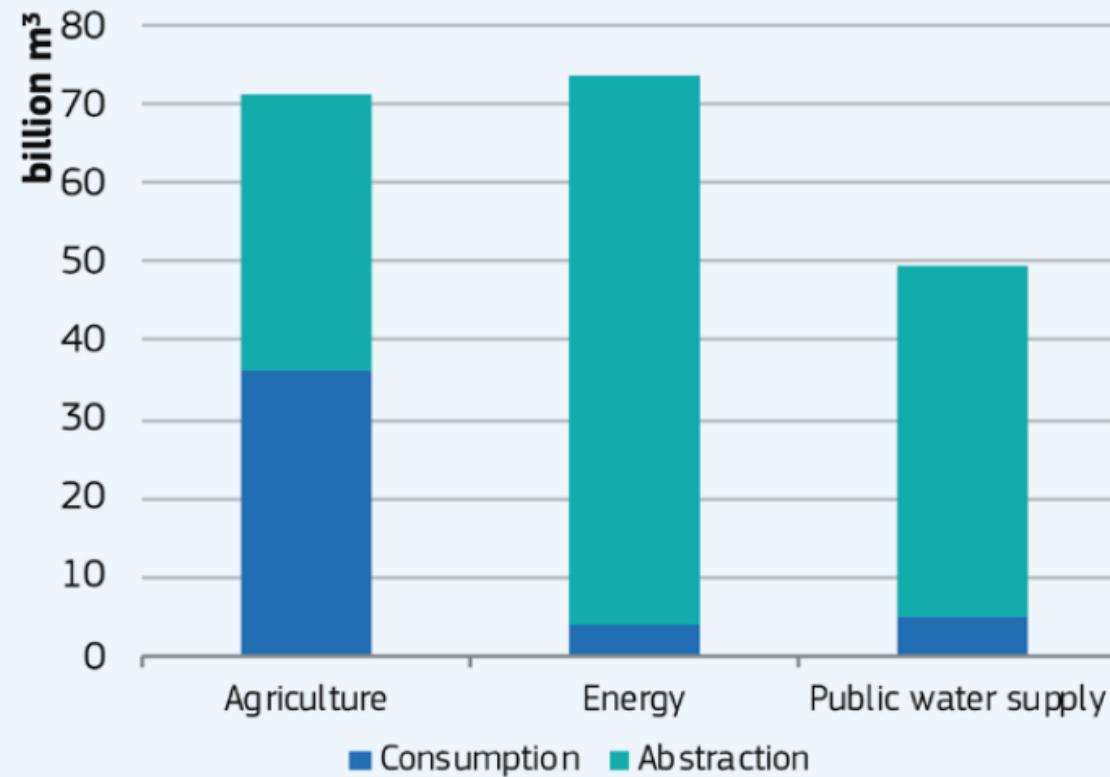
# Water Energy Nexus

## Water for Energy



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**Figure 6.** Comparison of water abstraction and consumption for energy (JRC analysis [Medarac et al. 2018]), agriculture (JRC analysis, [Vanham & Bidoglio 2013]), public water supply ([Eurostat 2018]).





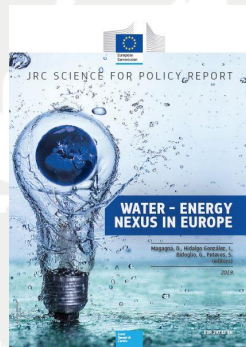
# Water Energy Nexus

## Water for Energy



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- *The Mediterranean appears as the primarily water stressed region, but...*
  - *The WEI+ of the energy sector represents only a small fraction of the total*
- *Some countries, such as Poland, Czechia, Bulgaria, Germany, France and Romania, have a high energy-related index...*
  - *This suggests that water requirements from the energy sector have a significant impact on the total WEI+, and*
  - *That the energy sector may be particularly vulnerable to water scarcity*





# Water Energy Nexus

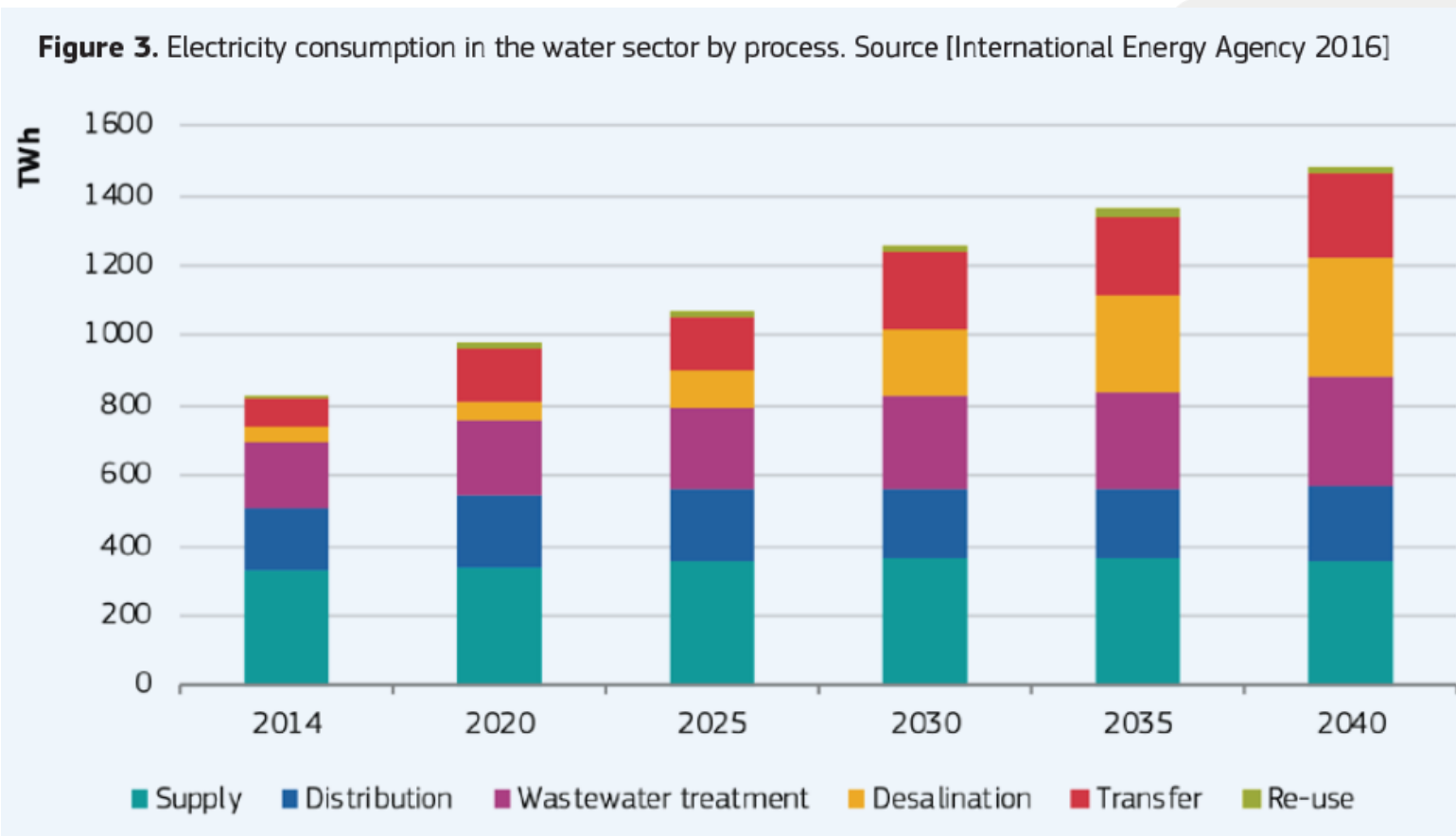
## Energy for Water



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*The use of electricity in the water sector is projected to increase globally, exceeding 4 % of the global electricity requirements by 2040.*

**Figure 3.** Electricity consumption in the water sector by process. Source [International Energy Agency 2016]







# Water Energy Nexus

## Untapped opportunities



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Energy and water interdependencies jeopardizes **mitigation&adaptation goals**

**Water, critical for energy** production, faces increased shortages due to climate change

**Competition for water** is growing (energy, consumers and other economic activities)

Untapped  
new  
**opportunities**

**within the  
water-energy  
nexus**

Need for **increased water efficiency** and water conservation practices in all sectors

**Energy sector** needs to look beyond energy, including water and the water-energy nexus

There is **enhanced impact of combined water-energy** approaches vs isolated ones



# Water Energy Nexus

## Key enablers



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### FINANCING

- Systematic transformation to seize opportunities calls for **Smart market-based financing solutions**

### PROFESSIONALS

- Reskilling and upskilling towards needed **Green Jobs & Green Skills**

### CONSUMERS

- Awareness and **value of combined water and energy efficiency** (particularly in buildings)

### Historic role of European Energy Agencies

Public policy, awareness,  
upskilling, deployment of  
new solutions



# Water Energy Nexus

## Key enablers



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EUR 177 billion annually from 2021 onwards to reach 2030 climate and energy goals

### FINANCING

- Systematic transformation to seize opportunities calls for **Smart market-based financing solutions**

### PROFESSIONALS

- Reskilling and upskilling towards needed **Green Jobs & Green Skills**

### CONSUMERS

- Awareness and **value of combined water and energy efficiency** (particularly in buildings)

### Historic role of European Energy Agencies

Public policy, awareness, upskilling, deployment of new solutions



# Water Energy Nexus

## Key enablers



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### FINANCING

- Systematic transformation to seize opportunities calls for **Smart market-based financing solutions**

2.5 million additional jobs  
in the EU due to EGD goals

### PROFESSIONALS

- Reskilling and upskilling towards needed **Green Jobs & Green Skills**

### CONSUMERS

- Awareness and **value of combined water and energy efficiency** (particularly in buildings)

### Historic role of European Energy Agencies

Public policy, awareness,  
upskilling, deployment of  
new solutions





# Task force | Water-Energy Nexus Working Group

**Exchange information** | Water efficiency and combined water-energy efficiency; Water-energy nexus in renewable energy; Water reuse and new water sources (e.g., desalination); Water and energy monitoring; Impacts of integrated approaches to climate adaptation and mitigation goals;

**Develop knowledge** | Users' needs regarding water-energy efficient products/services, bottlenecks and success factors, to support policy instruments for national authorities and the European Commission;

**Foster opportunities** | Joint projects on combined water and energy efficiency, boosting green growth, eco-innovation and green jobs



# Task force | Main activities



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**Working Group ToR and Work plan 2023-2024** | Final ToR for the WG, including **workplan for 2023-2024**; governance and membership to be proposed by the WG task force, following the Guidelines for the EnR Working Groups.

**EnR Water-Energy Nexus Studies, discussions and recommendations** | **Participated studies on key enablers**, followed by dissemination & discussion on main findings and recommendations.

**Funding opportunities** | Identify **possible funding for the WG activities** to apply in 2023 (Interreg, others)



# Task force | Main studies

**EnR'22 Study – Water Energy Nexus Financing** | Benchmark solutions of **smart and innovative financing and incentives to foster combined energy and water efficiency**, in Europe and internationally; Align recommendations with EU Taxonomy Regulation to **propose new mechanisms** that have high adoption potential to effectively finance the water&energy nexus, targeted at cities and buildings (*specific ToR*)

**EnR'22 Study – Green Jobs** | Skills and training gaps in **existing and future workforce**; Propose **guidelines for new job profiles**; Strengthen climate transition within the **European Skills Agenda**; Build from experience on water-energy nexus profiles (*specific ToR*)

**Consumer Survey** | **Consumer willingness**, motivations and needs to choose **labeled water use products** (fixtures and equipment), towards water & energy savings (*WEN WG ToR*).



# Task force | Main events

**EnR Water-Energy Nexus WG 1st Workshop** | Webinar on “**How smart financing can help achieve European targets**” to report and discuss the **findings of the WEN WG** study on **Smart market-based financing solutions**. The workshop will also address and help to clarify the implementation of the EU Taxonomy Regulation in MS.

**EnR Round Table on Green Jobs** | **Participative stakeholders forum** with European Energy Agencies, European Youth Energy Network and main green Jobs study target audience (eg. European Commission, Cedefop, organizations on professional qualifications and EU public policies, trade union and employer associations) **to discuss preliminary findings and include stakeholder's recommendations**.

**European Survey and Online Session @World Water Week** | Discussion session on “**Valuing water and energy savings in consumer choices**” for firsthand presentation and **discussion of preliminary results of the European citizen open survey and study on consumer willingness** to choose labeled water use products.

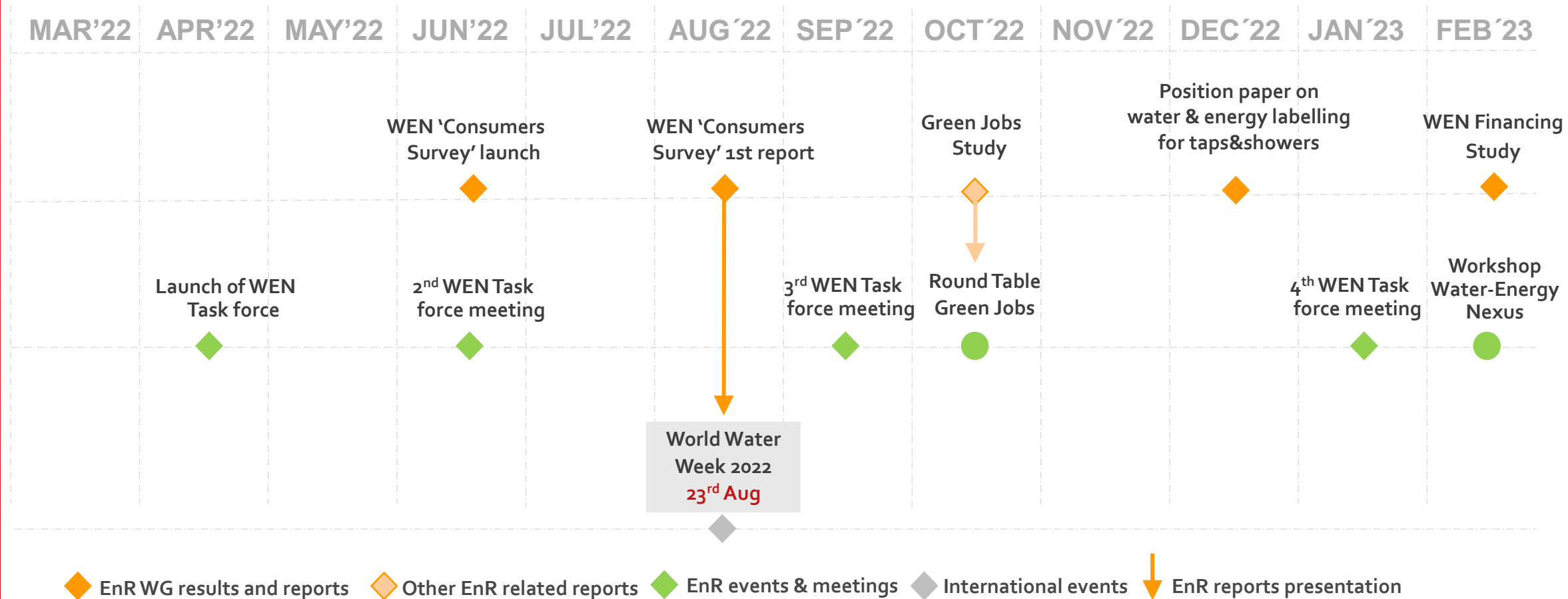




# Task force | 2022 activities' summary



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## Task force | ongoing



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- Water-Energy Nexus Financing study | agency survey launch in **June**
- Green Jobs study | agency survey launch in **June**
- Consumer survey | consumer survey to be launched in **June**
- World Water Week | seminar & online session submissions to present results **23 Aug**



# Consumer survey | WEN labelling for taps&showers

**Consumer survey** | Survey in final prep stages (translation, technical platform)

**Dissemination** | Dissemination media kit (social media posts, newsletter entries, etc), partnership establishment with consumer associations, environmental NGO's, retailers, etc.

**Launch** | June 2022 (launch date may differ in different EnR countries)

**Preliminary results** | 23 Aug @ Online Session

World Water Week in Stockholm



*Example of a social media post  
(mock post, not published)*



# World Water Week 2022 | Aug 23



## Online session | **Valuing water and energy savings in consumer choices**

*Firsthand presentation and discussion of the results of a European citizen open survey and study, ongoing by the European Energy Network (EnR), to understand consumers' needs, motivations and willingness to choose labeled water use products, fixtures and equipment, towards water and energy savings.*

### **Program overview:**

- Presentation “*Consumer willingness to choose for water-energy savings in the taps&showers market – preliminary findings*” – ADENE-PT, EnR 2022 Chair
- Keynote Speech “*Product labelling impact on water value and conservation*” (Water Sense, USA, tbc)
- Discussion: EnR Member Agencies; European Consumer, Market and Policy Organizations (Unified Water Label Association; BEUC / Euroconsumers; European DG-ENV; JRC; PUB Singapore)
- Audience interaction

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<https://worldwaterweek.org/event/10393-valuing-water-and-energy-savings-in-consumer-choices>





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# Thank you!

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European Energy Network

**M71 Regular Meeting**

Lisbon, June 7 2022

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