



UsersTCP

User Centered Energy System (USERS) TCP in a nutshell

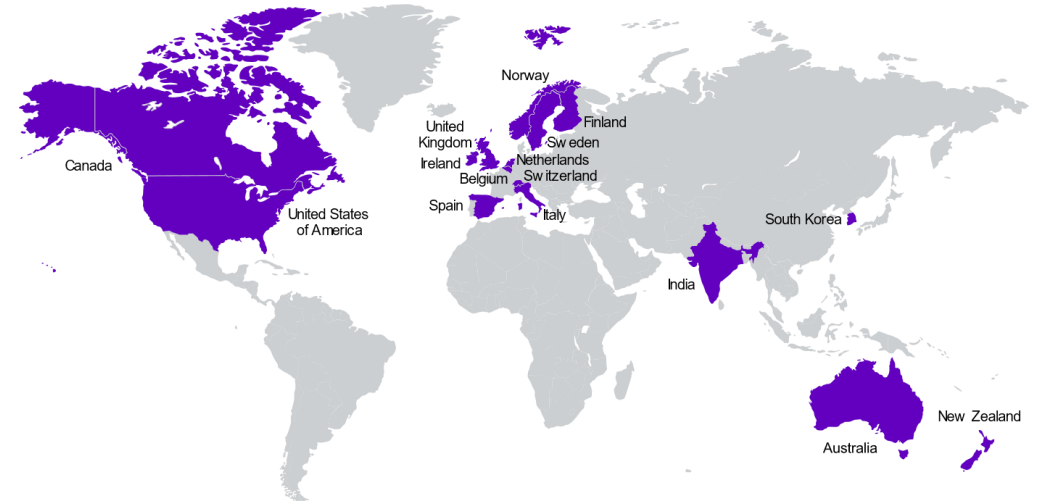
Users TCP's Visie

To be the world-leading international collaboration platform for (policy-)relevant socio-technical research on user-centred energy systems.

Users TCP's Missie

To provide evidence from socio-technical research on the design, social acceptance and usability of clean energy technologies to inform policy making for clean, efficient and secure energy transitions.

For more information go to www.userstcp.org or get in contact with: Gerdien de Weger – gerdien.deweger@rvo.nl



Running task



Social License to Automate



Peer-to-Peer Energy Trading



Hard-to-Reach Energy Users



Behavioural Insights Platform



Empowering All



Public engagement

Tasks in preparation



Public engagement – phase 2



User-Centered Business Models for Vehicle-to-Grid (V2G)



Flexibility (and heatpumps?)



Narratives – telling the story

Completed task



Fit to serve



Business models and Systems



Energy efficiency campaigns

Academy



User-Centered Energy Systems Academy

GETTING THEM ALL ON BOARD:

Meaningful public engagement to
enhance acceptance for large-scale
energy infrastructure projects

Why do we need public engagement?



@cesci.ie



→ Public engagement can improve and speed up the implementation of energy infrastructure in an appropriate manner, **reducing potential friction** between stakeholders in the development of energy infrastructure.

What is public engagement?

The involvement of the public in **various stages of energy infrastructure projects**, incl. stages of defining infrastructural needs, planning, permitting, and implementation, as well as of sharing of medium- and long-term socio-economic benefits.



Information

One-way communication to raise awareness, incl. digital formats.
The public does not provide input



Consultation

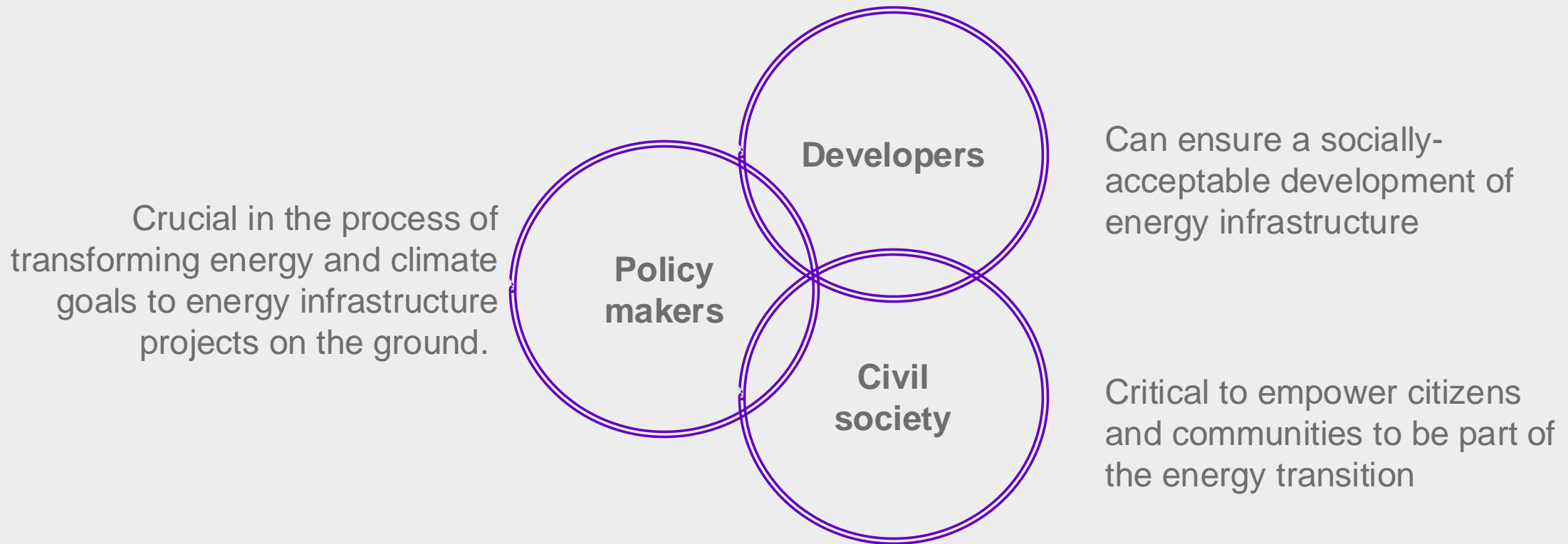
Two-way dialogue to gather local views and knowledge. The public can shape the process but not the objectives and outcomes



Empowerment

Two-way community-led engagement. The public co-designs and help shape the process, its objectives and outcomes

Who needs to be engaged?



Public engagement is a collaborative, multi-actor and multi-level process!

Engagement challenges

- **Public engagement challenges** that you may be facing:



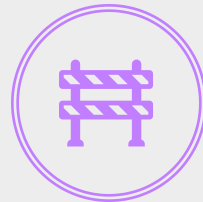
Little public engagement



Saving resources (costs & time)



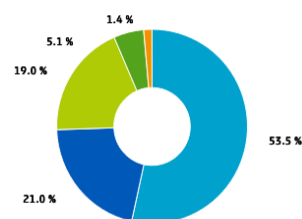
Public opposition



Overcoming institutional barriers

Engagement challenges: The Netherlands

Attitude towards transition from natural gas to sustainable energy, 2020



Most Dutch people in favour of wind turbines, but not in their 'backyard'

A large proportion of the population, 71 percent, support the construction of new wind turbines in the Netherlands. The Dutch are less enthusiastic, however, about having wind turbines in their own area: Twenty-one percent are in favour and 31 percent are against. Forty-three percent say it depends. The location of the wind turbines is the most frequently cited factor: they must not be too close to their home. Most Dutch people therefore prefer to have no wind turbines near their home.

Fifty-three percent of Dutch people are positive about energy transition

Over half of the population believe it is positive or very positive that the government wants to make the Netherlands free of natural gas by switching to sustainable energy sources. The most frequently cited reason is that natural gas contributes to CO2 emissions (and hence climate change). Another frequently cited reason is that the extraction of natural gas leads to subsoil shifts and subsidence, as in the earthquakes in Groningen. Another reason given for discontinuing the use of natural gas is that it will eventually run out.

The impact of the new Dutch government on climate & energy policy

On 2 July 2024, the new right-wing coalition government in the Netherlands – composed of the election winner the PVV party, the VVD party, and newcomers the Farmer–Citizen Movement (BBB) and New Social Contract (NSC) – was installed. The coalition unveiled its key policy plans for the next four years in its 'Hoofdpijnenakkoord' or 'Outline Agreement', of which a crucial topic is climate and energy, one that will remain a focal point for the years to come.

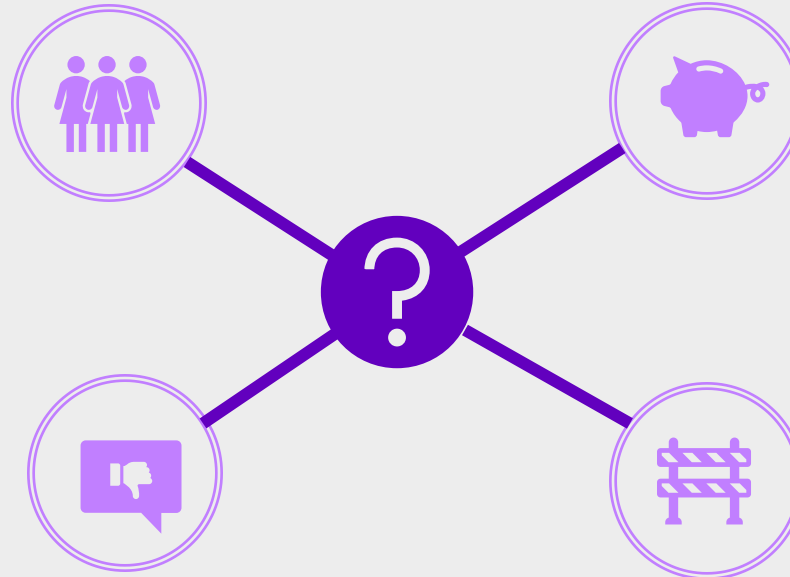
Engagement challenges: The Netherlands

Little public engagement

*Shift of interest/support (migration,
energy security)*

Public opposition to:

*EU policies
Ambitious climate actions
Near-by infrastructure*



Saving resources (costs & time)

Reaching consensus vs. time and resources

Overcoming institutional barriers

Decentralized system



How can citizens, communities and other stakeholders be meaningfully involved in projects?

ENGAGE4ENERGY



AN INTERACTIVE GUIDE
for developers, policymakers and civil society

The #Engage4Energy tool

- Interactive PDF, [available online](#)
- Technological scope: grids, wind energy, solar energy
- Target groups:
 - Developers of grids, wind and solar projects
 - Policymakers at national, regional and local level;
 - Civil society organizations & citizens



The screenshot shows the 'GUIDELINES' section of the #Engage4Energy tool. At the top, there are four tabs: 'INTRODUCTION', 'STEP-BY-STEP GUIDELINES' (which is selected), 'RECOMMENDATIONS', and 'MORE INFO'. Below the tabs, the word 'GUIDELINES' is written in large, bold, purple letters. Underneath it, the text 'for citizens, developers and policymakers' is written in a smaller, italicized purple font, followed by 'on public engagement in energy infrastructure projects' in a black serif font. Below this, there is a purple icon of a hand pointing to a document, with the text 'THIS DOCUMENT IS INTERACTIVE' and 'CLICK HERE TO START!' in purple. At the bottom of the page, there are logos for 'Public Engagement for Energy Infrastructure' (UsersTCP), 'Renewables Grid Initiative' (with a green circular logo), and 'IEECP' (with a blue circular logo). The text 'Developed by' is written in a small, italicized purple font above the logos.

INTRODUCTION STEP-BY-STEP GUIDELINES RECOMMENDATIONS MORE INFO

GUIDELINES

for citizens, developers and policymakers
on public engagement in energy infrastructure projects

 THIS DOCUMENT IS INTERACTIVE
CLICK HERE TO START!

Public Engagement for Energy Infrastructure

Developed by

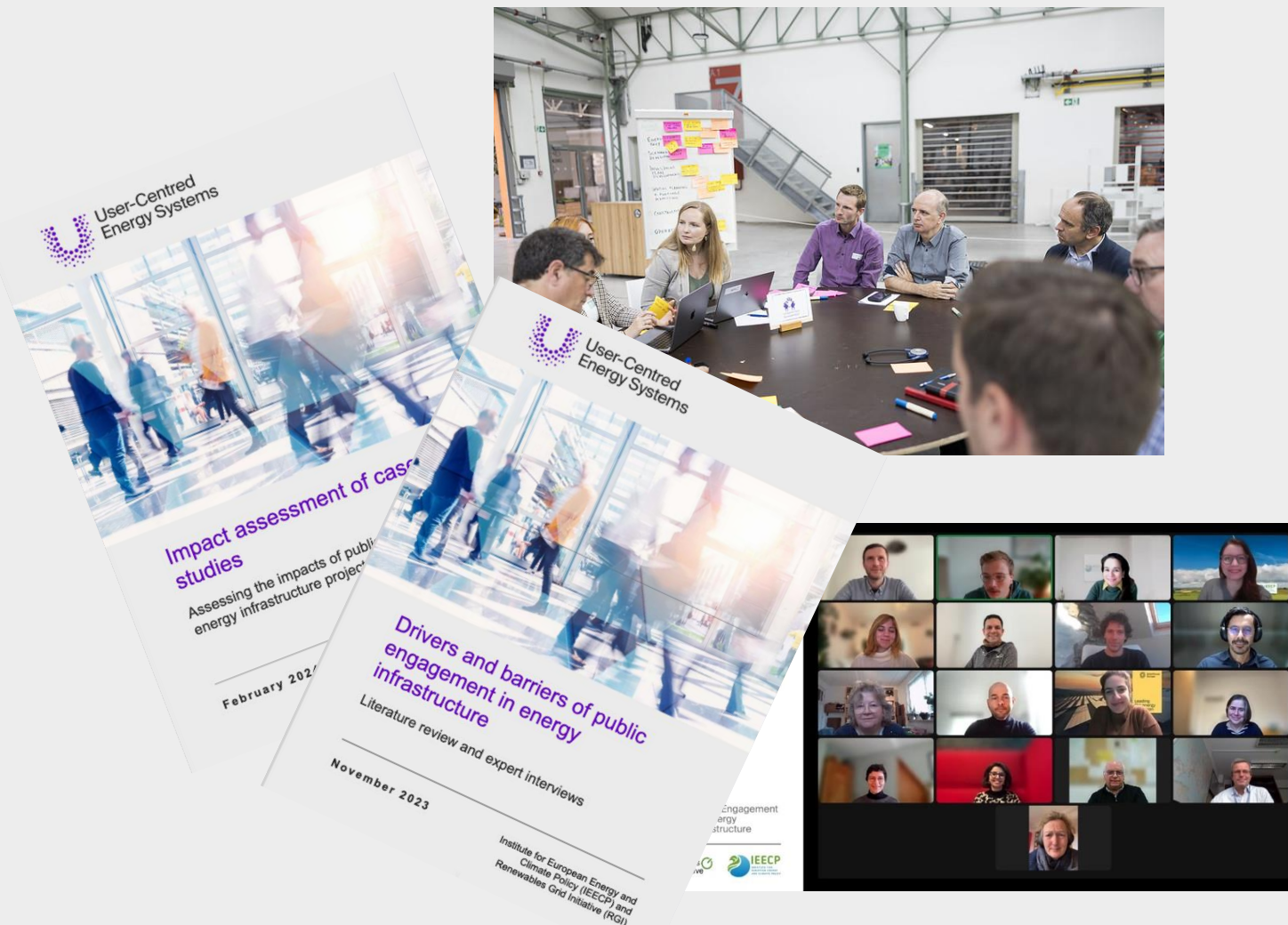
Renewables Grid Initiative

IEECP

The #Engage4Energy tool

Based on research and practice:

- 2 studies on [Drivers and barriers](#) of public engagement and [Impact assessment](#) of selected case studies
- Experts' feedback (professional and academic workshops, round tables & online meetings)
- RGI & IEECP previous and ongoing works



The #Engage4Energy tool

The guide considers the **energy infrastructure's lifecycle**:

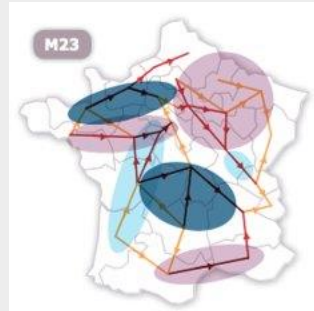
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POLICY MAKING



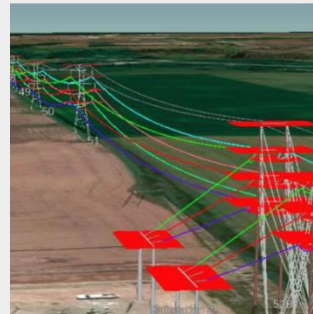
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SYSTEM PLANNING



3

PROJECT PLANNING



4

PROJECT IMPLEMENTATION



5

INFRASTRUCTURE END-OF-LIFE





The #Engage4Energy tool

Four key principles for meaningful public engagement



Early engagement of stakeholders



Transparency about the engagement process and its outcomes



Inclusiveness of diverse individuals and social groups in the **entire lifecycle**



Developing trust in project developers and policymakers



Your benefits from engagement



Collaboration across different governance levels can ensure support and achievement of policy goals.



Multi-stakeholder collaborations can improve mutual understanding of drivers and barriers to energy infrastructure development.



Effort invested in multi-level and multi-stakeholder collaboration can reduce concerns and opposition to climate and energy plans.



Public Engagement
for Energy
Infrastructure

The #Engage4Energy tool - demo



Let's get inspired!
**Examples of public engagement in
energy infrastructure**



Let's get inspired



CITIZEN FORUM

2021 • SWITZERLAND • CANTON OF GENEVA • EMPOWERMENT

- Citizens forum set up on the initiative of State Councillor Antonio Hodgers, who is responsible for planning and the environment, following controversy over urban development projects and tree felling.

HIGHLIGHTS

- Four weeks of discussions among the 30 participants of the territory of Geneva that came together to discuss how they want to live together better while respecting nature and facing climate change.
- The debate focused on how participants see Geneva in order to live together better, while respecting nature and tackling climate change.
- 104 proposals submitted by the Forum on mobility, biodiversity, local consumption, waste, urban planning, green spaces and climate emergency.

IMPACTS & OUTCOMES

- The State Council and the administration took up the report and respond to it. It influenced the political agenda and the 2030 climate plan.

Let's get inspired



DECISION THEATER: ENERGY TRANSITION

2021 • GERMANY • GLOBAL CLIMATE FORUM • EMPOWERMENT

- Decision Theaters guide experts and stakeholders through a moderated discussion process to achieve jointly supported decisions. The discussion is enriched live by decision aids and visualizations that allow different variants to be run through in real time using current data, algorithms and scientific findings.

HIGHLIGHTS

- A moderated process for solving challenges together on a scientific basis.
- Decision theaters can focus on different topics, such as electricity system transformation, grid development, or sustainable mobility.
- Strategic issues of the climate and energy system are addressed.
- Participants can bring in their practical questions.
- Experts present models, scenarios and scientific findings.
- Joint development of strategic alternatives and alternatives to the business-as-usual scenario will be discussed.

IMPACTS & OUTCOMES

- The result is an enhanced collaboration and a jointly supported decision on the future climate and energy system.

Let's get inspired



ENTREREDES - AN EDUCATIONAL GAME FOR SCHOOLS

2015 • SPAIN • RED ELÉCTRICA • INFORMATION SHARING

- Red Eléctrica de España is responsible for planning and operating the electricity grid in Spain.
- EntreREDEs is a digital education platform which acts as a question and answer game that allows children to work out concepts related to the function, needs and challenges of the energy system in a playful and entertaining manner.

HIGHLIGHTS

- The game has resulted in the participation of more than 8,300 Spanish students.
- 98% of students recommended the use of EntreREDEs at school as educational support.
- UNITY (a videogame technology) was used to achieve maximum virtual quality.

IMPACTS & OUTCOMES

- The project aims to educate school aged children about how the electricity system works, with the goal of helping the society to make informed decisions, encouraging dialogue and citizen participation as adults.
- The game is teaching children the responsible use of energy, and giving them information on renewable energy and smart grids.

Let's get inspired

[MORE ABOUT THIS CASE >](#)[OTHER INSPIRING CASES >](#)

GALWAY WIND PARK COMMUNITY FUND

2017 • IRELAND • SSE RENEWABLES & GREENCOAT • CONSULTATION & EMPOWERMENT

- Galway Wind Farm is jointly owned by SSE Renewables and Greencoat Renewables, and has been operational since 2017. It is Ireland's largest onshore wind farm with 58 wind turbines generating 174 MW. The Galway Wind Park Community is the largest fund of its kind in the country.

HIGHLIGHTS

- €400,000-plus per annum, paid annually in contributions to local groups and individuals via the local fund, Major Projects Fund, and Scholarship Fund.
- Early and ongoing community engagement, with frequent communication, and active demonstration of benefits.
- Consultations for the community fund took place, following the launch of the Galway Wind Park Community.

IMPACTS & OUTCOMES

- Emphasis placed during project development on reducing negative impacts, including visual impacts, and capitalizing on positive benefits, including environmental education.

Policy recommendations



**Communicate about
the energy transition
and engagement
opportunities &
benefits**



**Provide resources for
public engagement**



**Support capacity-
building for public
engagement within your
organization AND to the
respective stakeholders
in your jurisdiction**



**Initiate and support
stronger multi-level
and multi-stakeholder
collaborations**

**And you can spread the word and share our guidelines to raise
awareness about the relevance of public engagement!**



Public Engagement
for Energy
Infrastructure



Contact

**This work was
developed between:**

March 2023 – March 2024

**Research &
development team:**



Renewables
Grid Initiative 

This work was funded by:

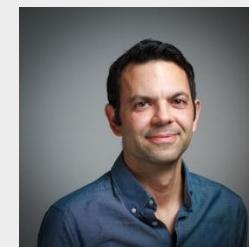
Ireland, Netherlands, Sweden, Switzerland and United Kingdom under: Users TCP, part of the IEA Technology Collaboration Programme

Further information:

<https://userstcp.org/public-engagement-for-energy-infrastructure-task/>

Get in touch

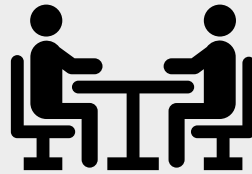
If you have further questions or would like to discuss synergies, feel free to reach out to us!



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Looking at the principles for promoting public acceptance, could you use the principles in your own work / Dutch context? What would be the difficulties in applying these principles?

Given the Dutch context, what do you think is missing from the principles presented so far? How can that be improved / implemented?