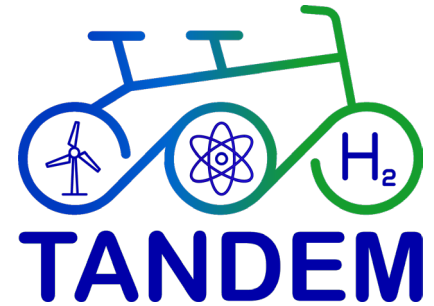


Policy Briefs

TANDEM Project – Final conference

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Topics covered

Finance &
Economics

Stakeholder
Engagement &
Public Acceptance

Regulatory
Framework

Skills



Goal

About

Challenges

Policy
recommandations

Target Audience: Policymakers (EU, national, local)

Finance & Economics: Challenges

- Competition: other technologies, energy imports + electricity & H2 production (revenue maximisation)
- Unit size varies: SMRs need to meet needs of market/off takers
- District heating: networks often small & not interconnected
- Legal framework lacking to enable sale and use of nuclear heat
- Taxation: should be adapted to take into account nominal power output of SMRs
- Transportation: Challenging to transport heat & hydrogen over long distances
- Demand: lacking
- Public acceptance

Finance & Economics: Policy Recommendations

- Clarify the status of nuclear heat inline by integrating it within the projected low-carbon energy share together with renewables and heat recovery for district heating, as this currently differs across Europe.
- Adopt a clear and technology neutral low-carbon hydrogen delegated act in which the status of hydrogen produced from nuclear is clearly recognised alongside renewables.
- Promote the use of indicators other than 'Levelised Cost of': for instance CO2 intensity, reliability, resilience and sovereignty.

Stakeholder Engagement: Challenges

- New concept: difficult to define
- No existing SMR in EU: lack of common narrative/language
- Current attitudes: Existing concerns could affect opinion towards SMRs
- Location: closer to citizens
- Variety of stakeholders: different needs, cultures and languages
- Fragmented decision making in cities

Stakeholder Engagement: Policy Recommendations

- Continuous and transparent dialogue
- Develop comprehensive tools and channels for engagement
- Enhance knowledge of citizens (and other policymakers)
- Engagement of diverse groups in conversation
- Share information about specific projects
 - Benefits
 - Explain process
- Involvement in emergency planning
- Facilitate involvement of independent experts & enable stakeholder engagement



Regulatory Framework: Challenges

- Location:
 - Close to industrial clusters = consideration of their regulatory framework
 - Populated areas
- Safety: potential update of requirements to include impacts from surrounding sites

Regulatory Framework: Policy Recommendations

- Regulators: ensure they have sufficient resources (workforce) to ensure early involvement
- Collaborative framework: engagement between nuclear & non-nuclear regulators
- Downstream users: Enable early involvement (pre-licencing stage)
- Communication: Support nuclear safety regulators in providing clear & understandable information to the public
- Licensing framework: Update to incorporate co-generation opportunities

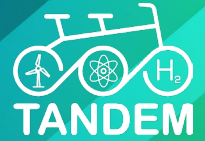
Skills: Challenges

- Identification of gaps:
 - Some SMRs are 'new' techs (and require new approaches)
 - Existing tech SMRs – their role will be different (hybrid energy system)
- Research: more information needed to identify skills needs
- Curricula: may need to be update to incorporate new approach + hybridisation
- Time: updating E&T will not happen overnight

Stakeholder Engagement: Policy Recommendations

- Facilitate the rapid deployment of relevant education and training courses within the curricula of higher education institutions.
- Facilitate the connection between soft skill and hard skill providers and interaction between the different institutions.
- Facilitate cooperation between academia, research and industry to create viable programmes which will ensure the development of a skilled workforce. Avoid promoting 'silo' initiatives (academia OR research OR industry).

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