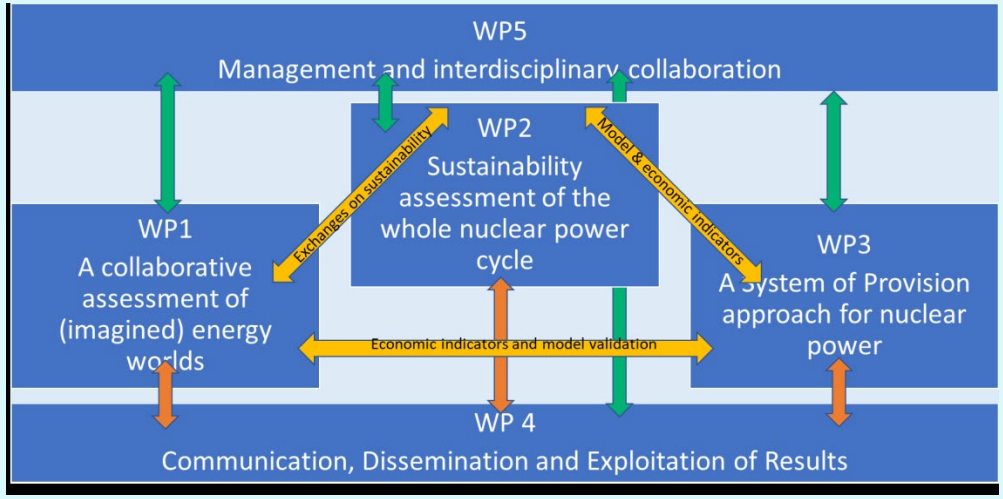
ECOSENS – Economic and Social Considerations for the Future of Nuclear Energy in Society

Interdisciplinary project

- Work Packages 1, 2 and 3 provide the analyses and exchanges on the content.
- Work Package 4 addresses the cross-cutting topic of dissemination, communication and exploitation of results.
- Work Package 5 ensures the management of ECOSENS



Expected results

- in-depth and up-to-date analysis of different dimensions of societal perception of nuclear energy
- assessment of the actual uptake and practical recommendations for enhanced mechanisms of interaction between citizens, civil society, decision-makers and researchers
- deliberative engagement workshops exploring the plurality of evidence- and value-based perspectives on the assessment of nuclear energy sustainability and energy governance and on the role of nuclear energy therein.
- methodology, models, scenarios, impact factors to be used in the sustainability assessment of nuclear energy, including the societal perspective
- recommendations for future development of sustainability assessment methodology for stakeholders and policy-makers
- novel model based on the System of Provision approach to develop and calculate indicators relevant for consumers, governments, suppliers, etc., discussed and validated by stakeholders.

Partners

- **RATEN ICN - Romania**
- **SCK.CEN - Belgium**
- **ISAS CR - Czech Repubic**
- **SYMLOG - France**
- **POLIMI - Italy**
- **EIMV - Slovenia**
- **CIEMAT - Spain**
- **MERIENCE SCP - Spain**
- **UANTWERPEN - Belgium**
- **UMB - Slovakia**
- **UNICAS - Italy**
- **UNEXE – UK – associated partner**



Stakeholders

- scientific community and
- researchers (natural, technical and social);
- civil society organisations;
- NGOs, citizes;
- decision-makers;
- state administration;
- local information committees;
- municipalities with nuclear facilities
- nuclear industry;
- industrial actors, investors.

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Expected impacts

- Stimulation of R&D and E&T in nuclear, with the integration of social sciences and humanities due to an increased awareness of the social actors and decision makers on the nuclear energy's contribution to a climate-neutral EU energy system by 2050.
- Stimulate stakeholders' engagement
    - increase awareness of and sensitivity to the complexity of the (nuclear) energy challenge and trigger debate on responsibilities of various actors relevant to dealing with that complexity;
    - generate new synergetic knowledge that can inspire social innovation in energy policy, in particular related to stakeholder engagement;
    - inspire academies and education on how to integrate courses on energy, climate change and sustainability into their education programmes.
- A rethink of energy policy criteria incorporating the wider perspective of stakeholders and the limits of our planet (based on novel approach for economic assessment of nuclear energy based on System of Provisions and indicators).

ECOSENS project duration
1 October 2022 - 30 September 2025

Website: https://ecosens-project.eu/
STORE database:
https://www.storedb.org/store_v3/
Social media:
LinkedIn
https://www.linkedin.com/company/ecosensproject/about/
X @ecosens_project
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YouTube
https://www.youtube.com/@ecosensproject

Objectives

ECOSENS aims to:

- Provide a societal perspective on the development and use of existing and new nuclear technologies, in the context of major societal challenges: climate crisis, sustainable development and energy security, by opening up the technoscientific issues to the social, political, cultural and ethical context, in order to guide policies in the nuclear field.
- Provide an assessment of nuclear energy sustainability considering the entire life cycle of the current nuclear technologies, possible evolutions of the energy markets and nuclear technologies in the transition toward climate neutrality, and the societal perspective in order to reveal and evaluate the possible roles of nuclear power in the future;
- Provide a radically new economic model, based on the System of Provision (SoP), for the assessment of nuclear energy, overcoming the key weaknesses of existing economic models, providing a suite of indicators relevant not just for the investors (e.g. equity holders) but for a broad variety of stakeholders (e.g. consumers, governments, suppliers).

October 2022

This project has received funding from the Euratom research and training programme HORIZON-EURATOM-2021 under grant agreement No. 101060920