



The Clean Energy Transition Partnership



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30+ Countries

EU Member States
+ Associated Countries
+ International Organizations
(Mission Innovation)

50+ Funding Partners

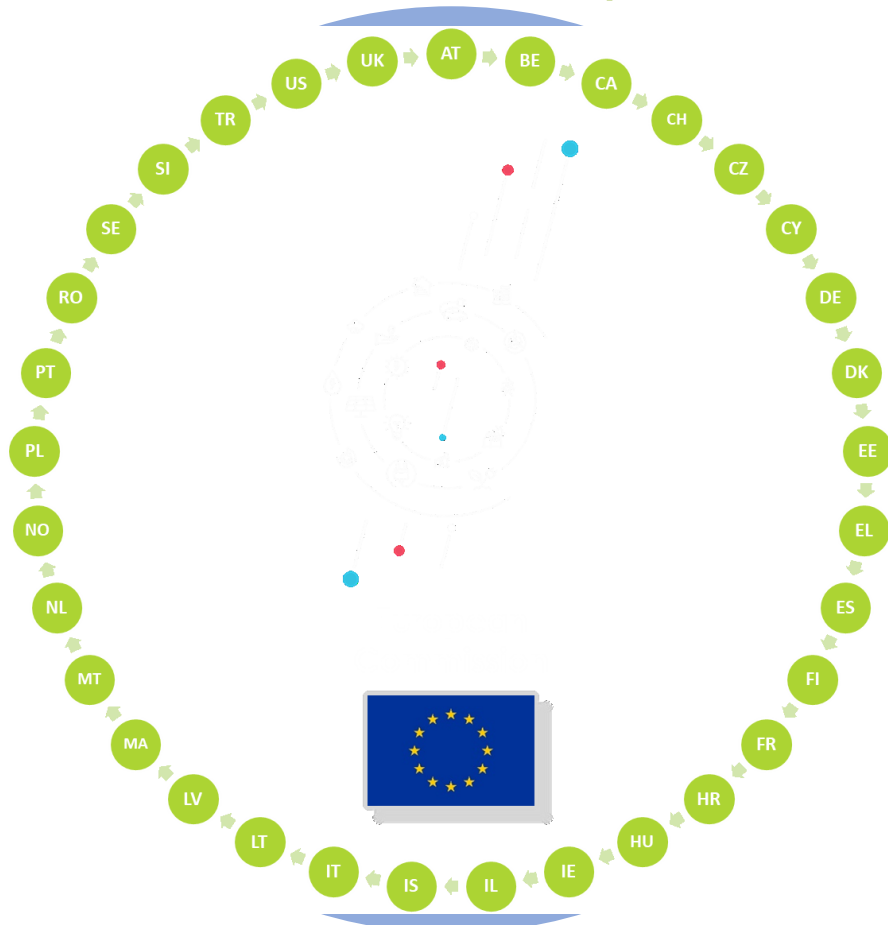
Funding Agencies
& Ministries

13 Coordination

Coordinators:
Austrian Ministry of Climate
Swedish Energy Agency

Annual Joint Call for RTDI Projects

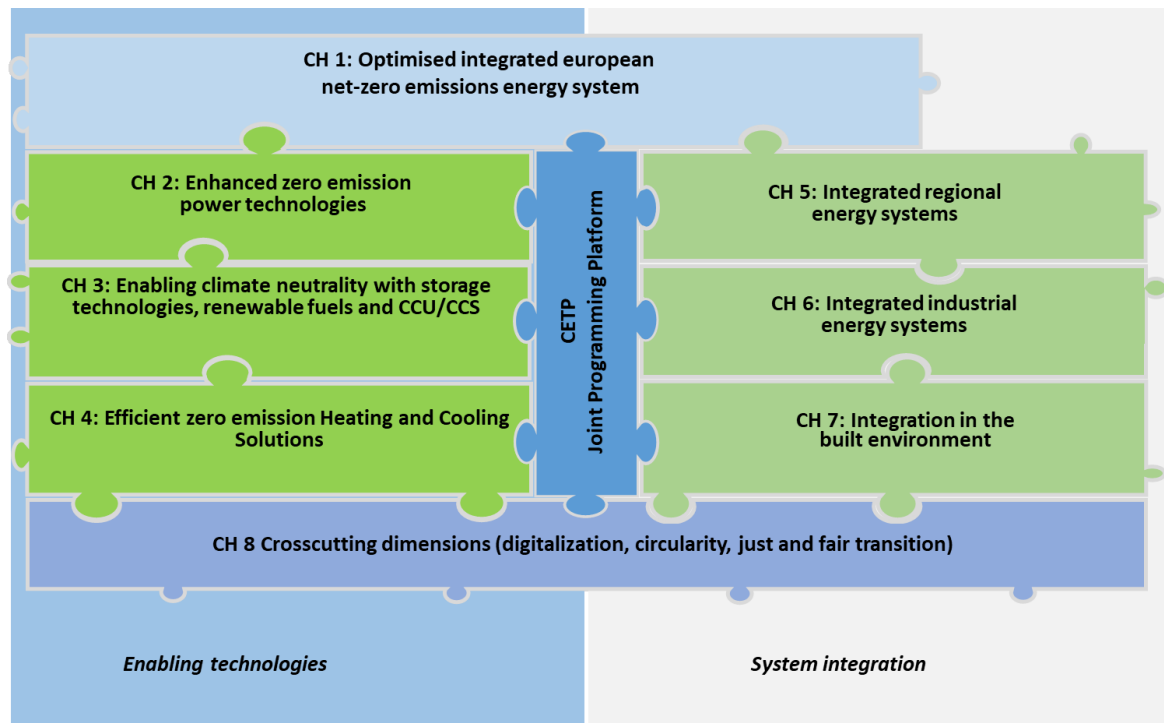
100 – 150 Mio €



The Strategic Research and Innovation Agenda



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The SRIA Challenges in Detail



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CETP Challenge 1 “Optimised integrated European net-zero emissions Energy System”

Develop the optimised, integrated European net-zero emissions energy system, where electricity distribution and transmission grids are seen as the “backbone” of the future low-carbon energy systems with a high level of integration among all energy carrier networks, by e.g. coupling electricity networks with gas, heating and cooling networks, supported by energy storage and power conversion processes.

CETP Challenge 2 „Enhanced zero emission Power Technologies“

Enhance zero emission power technologies, by increasing the conversion efficiency per unit or surface area by 30 to 40% and lowering technology production costs by 35 to 50 % until 2030, according to the potential and characteristic of the entire technology, as well as by improving their system integration properties and impact.

CETP Challenge 3 “Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS”

Develop and deploy energy storage, renewable based fuels, as well as CCU/CCS (Carbon Capture and Use/Carbon Capture and Storage) for a climate-neutral Europe.

CETP Challenge 4 „Efficient zero emission Heating and Cooling Solutions“

Provide enhanced and improved heating and cooling technologies and systems for all major parts of Europe by 2030, enabling 100% climate-neutral heating and cooling by 2050. Innovation is particularly needed to optimise their efficiency, lowering costs, and providing solutions for the heating demand peak in winter and the cooling demand peak in summer.

CETP Challenge 5 „Integrated Regional Energy Systems“

Develop and validate integrated regional and local energy systems, that make it possible to efficiently provide, host and utilize high shares of renewables, up to and beyond 100% in the dynamic local or regional supply by 2030. Such systems shall provide tailor-made solutions that meet the individual regional and local requirements and demand.

CETP Challenge 6 „Integrated Industrial Energy Systems“

Develop and demonstrate integrated industrial power, heating and cooling systems, hybrid solutions and novel technologies that enable efficient carbon-neutral industrial sites and production.

CETP Challenge 7 „Integration in the built Environment“

Provide solutions and technologies for existing and new buildings to become an active element in the energy system, with enhanced capability to produce, store and efficiently use energy in the residential and non-residential sector, comprising public and commercial buildings, service and mobility infrastructure buildings, etc.

CETP Challenge 8 „Cross-cutting Dimensions”

Cross-cutting dimensions beyond technology and resources need to be considered in all CETP Challenges, in order to ensure robust transition pathways that should be driven by a multidisciplinary perspective and include transition pathways, regulations, circularity, digitalisation as well as policy and social aspects.



Enabling Technologies

- enhancement, cost reduction, up-scaling
- advanced industrial manufacturing concepts
- value chain and circularity

System Integration

- technology and interoperability
- marketplace, value exchange and framework
- transition and adoption



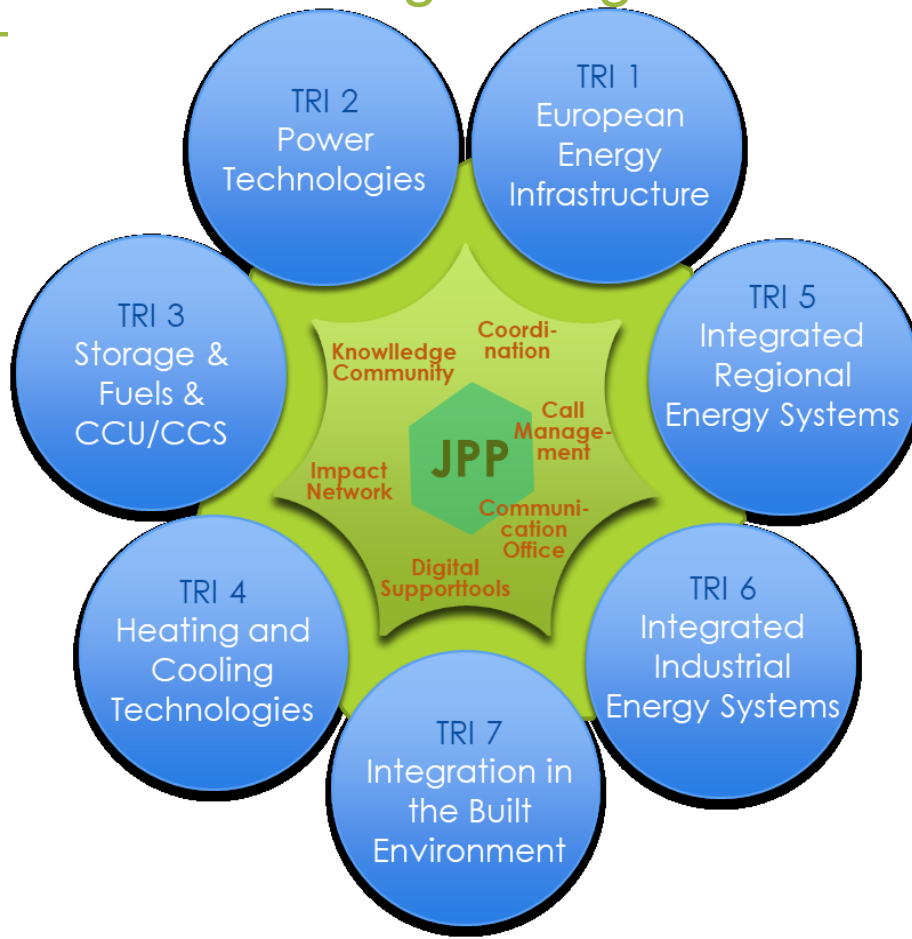
Co-funded by
the European Union

Transition Initiatives on a Joint Programing Platform



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Transition Initiatives (TRIs) are thematic configurations of CETPartnership Funding Partners based on the SRIA Challenges

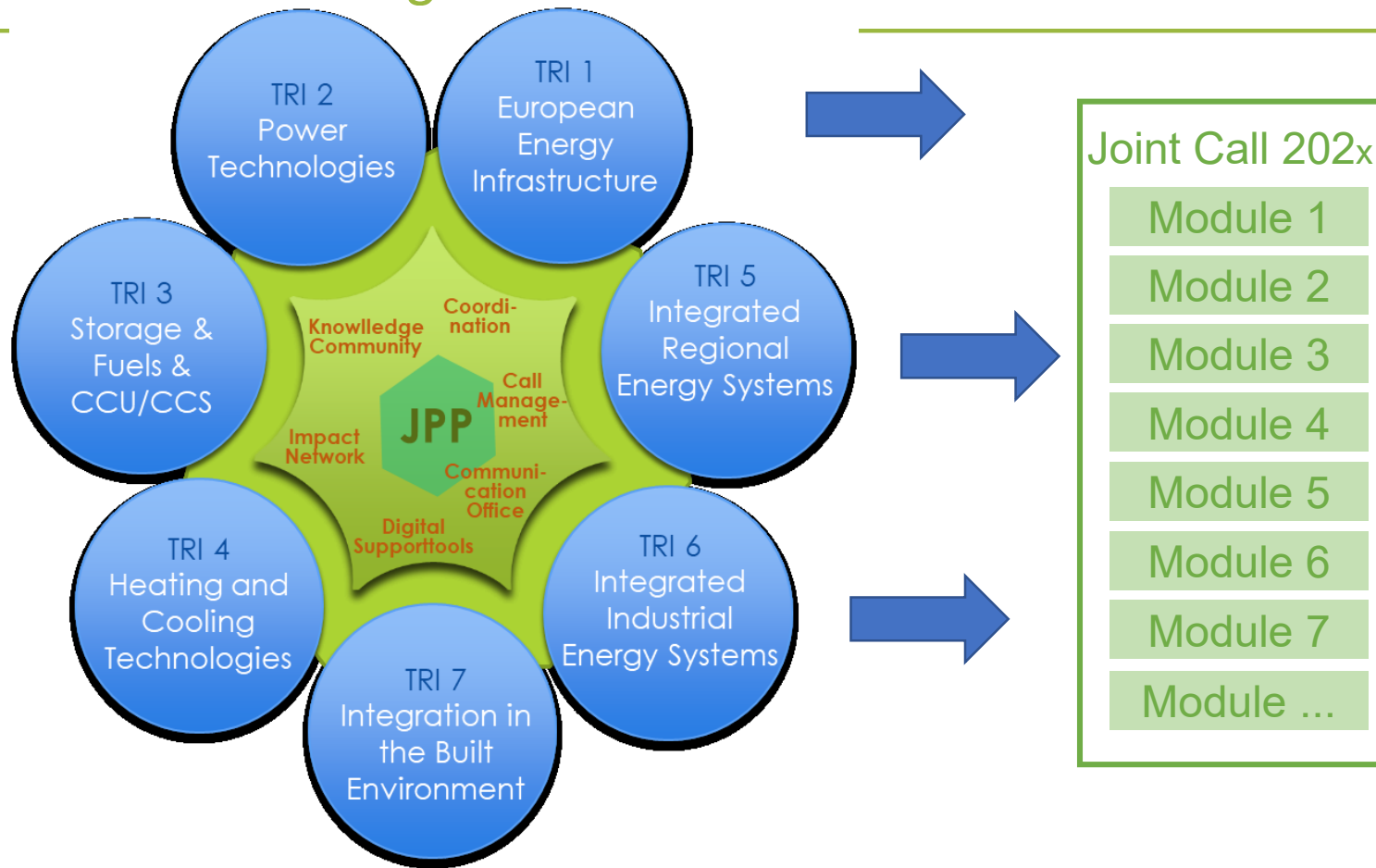



-funded by
European Union


TRIs Delivering Modules for the Annual Joint Calls




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 **CETPartnership** EUROPEAN PARTNERSHIP




TRI 1: Integrated Net-zero-emissions Energy System




TRI 2: Enhanced zero emission Power Technologies




TRI 3: Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS




TRI 4: Efficient zero emission Heating and Cooling Solutions



TRI 5: Integrated Regional Energy Systems



TRI 6: Integrated Industrial Energy Systems



TRI 7: Integration in the Built Environment

Contact



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