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The CETPartnership



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The CETPartnership in a nutshell



WHAT:

- Aims to empower the **clean energy transition** and contribute to the EU's goal of becoming the first **climate-neutral continent by 2050**

HOW:

- by pooling national and regional RDTI funding for a broad variety of technologies and system solutions required to make the transition

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What lies ahead



The CETPartnership will **foster transnational innovation ecosystems** from the very local and regional level, up to the transnational European level, thus overcoming a fragmented European landscape.

Moreover, it intends to reach out to collaboration with funding partners **beyond Europe**, in order to broaden the knowledge and experience bases and introduce European solutions and stakeholders to the global value chains.

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Where does the CETPartnership come from?

- Builds on **15 years of transnational cooperation** in 9 energy relevant ERA-Nets
- Build up of **trust and established practices** in:
 - conducting joint calls,
 - monitoring progress,
 - sharing data, information and knowledge beyond the projects
 - deducing strategic knowledge,
 - maximising the impact of funded projects and their established European and international relationships



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The
TRIs

Thematic structure



The Transition Initiatives (TRIs) are **thematic configurations** of CETPartnership funding partners in order to work together on a specific **Strategic Research and Innovation Agenda (SRIA)** Challenge.

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The TRIs

Thematic structure

The CETPartnership is structured in **7 Transition Initiatives (TRIs)** which address the seven CETPartnership RTDI Challenges as described in the Strategic Research and Innovation Agenda (SRIA). Each of the TRIs is led by one of the partners, known as the TRI Lead (extra slidedeck at the end of the presentation)



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

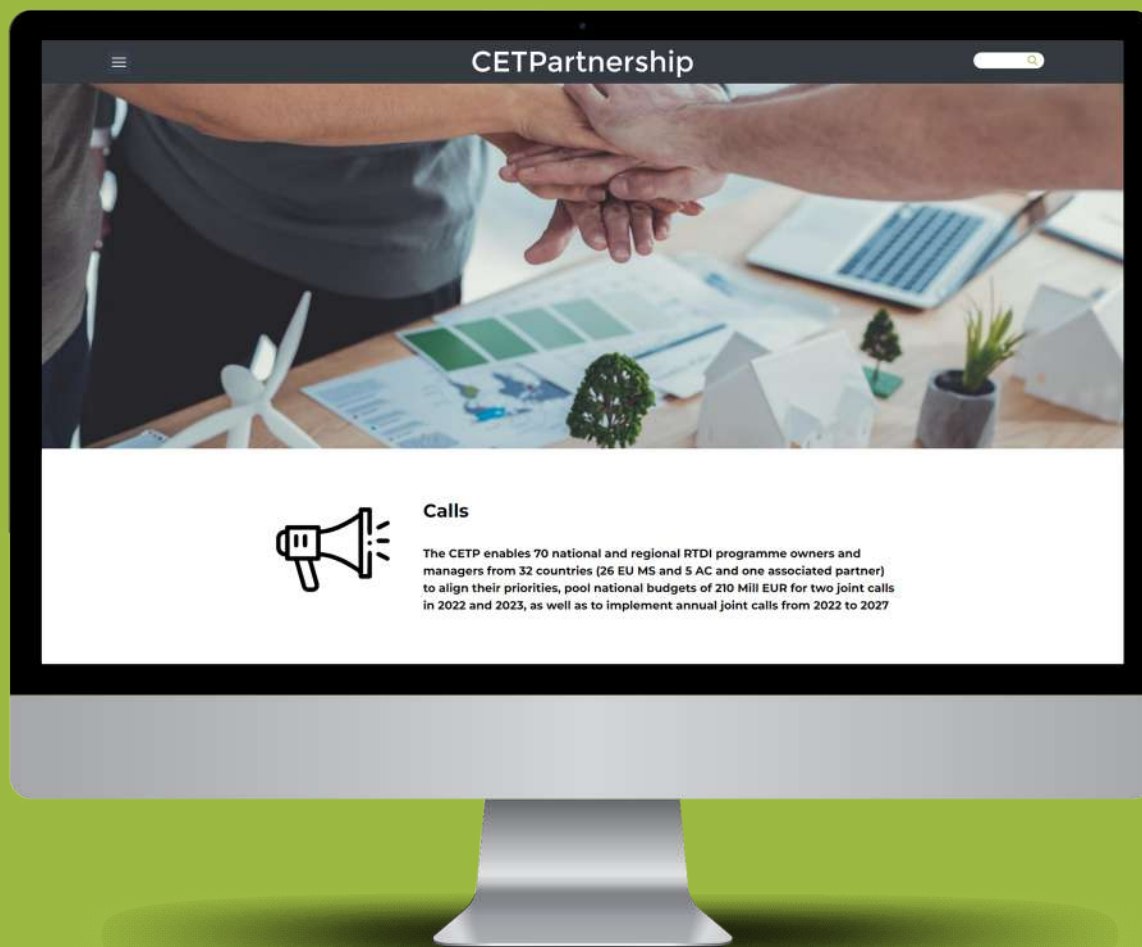


TRI 6: Integrated Industrial Energy Systems



TRI 7: Integration in the Built Environment

Calls














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Calls

Call 2022 Thematic structure

The CETPartnership 2022 Call, to be officially launched on **September 2022**, will be structured into **thematic modules**.

Each Transition Initiative (TRI) will develop **one or two Call modules** based on their strategic topics and content, allowing to cover the whole spectrum of their specific SRIA challenges.

 TRI 1: Integrated Net-zero-emissions Energy System TRI 1 Call Module 1 RESDemPowerflex	 TRI 1: Integrated Net-zero-emissions Energy System TRI 1 Call module 2 PowerPlanningTools	 TRI 2: Enhanced zero emission Power Technologies TRI 2 Call Module CH1	 TRI 2: Enhanced zero emission Power Technologies TRI 2 Call Module CH2
 TRI 3: Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS TRI 3 Call Module CCUS	 TRI 3: Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS TRI 3 Call Module Hydrogen and renewable fuels	 TRI 4: Efficient zero emission Heating and Cooling Solutions TRI 4 Call Module Joint Call 2022	 TRI 5: Integrated Regional Energy Systems TRI 5 Call Module Joint Call 2022
 TRI 6: Integrated Industrial Energy Systems TRI 6 Call Module Joint Call 2022	 TRI 7: Integration in the Built Environment TRI 7 Call Module IDA	 TRI 7: Integration in the Built Environment TRI 7 Call Module RIA	

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Calls

TRI1: ENERGY SYSTEM

#1.1 PowerPlanningTools

#1.2 RESDemPowerflex

TRI2: ZERO EMISSION POWER TECHNOLOGIES

#2.1 Advancing RE technologies for power production through cost reduction

#2.2 Breakthrough R&D to increase RE power technologies efficiency

TRI3: RENEWABLE FUELS AND CCU/CCS

#3.1 Enabling climate neutrality with storage technologies, renewable fuels and CCU/CCS

#3.2 Enabling Climate Neutrality with renewable fuels and hydrogen

TRI4: HEATING AND COOLING SOLUTIONS

#4 Heating & Cooling

TRI5: INTEGRATED REGIONAL ENERGY SYSTEMS

#5 Integrated Regional Energy Systems for a resilient, secure and renewable energy supply

TRI6: INTEGRATED INDUSTRIAL ENERGY SYSTEMS

#6 Industrial energy systems

TRI7: INTEGRATION IN THE BUILT ENVIRONMENT

#7.1 R&I in clean energy integration in the built environment

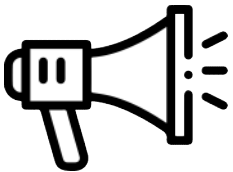
#7.2 Solutions to energy transition in the built environment

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Calls



- **Two-stage application**
- **Opening:** 14 September (pre-proposal)
- **Due date for submission:** 23 November 2022
- **Consortia requirements:** min. 3 partners from 3 different participating countries, out of which 2 MSs/ACs
- **Carefully read the call text** and the **national/regional annexes** from countries involved in your project for specific requirements.
For ITALY:
 - Ministero dell'Università e della Ricerca (budget: 2,4M€)
 - Ministero dello Sviluppo Economico (budget: 16 M€)



More information and link to submission platform to be published on:

<https://cetpartnership.eu/calls>

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Funding
partners

Austria	Austrian Research Promotion Agency	FFG	3 900 000	The Netherlands	Dutch Research Council	NWO	2 000 000
Canada (Alberta region)	Emissions Reduction Alberta	ERA	3 470 000	The Netherlands	Netherlands Enterprise Agency	RVO	8 000 000
Cyprus	Research and Innovation Foundation	RIF	3 000 000	Norway	The Research Council of Norway	RCN	10 000 000
Czech Republic	Technology Agency of the Czech Republic	TA CR	1 500 000	Pays de la Loire	Pays de la Loire Region Council	RPL	1 000 000
Denmark	Energy Technology Development and Demonstration Programme	EU DP	1 340 000	Poland	National Centre for Research and Development	NCBR	3 000 000
Denmark	Innovation Fund Denmark	IFD	1 000 000	Portugal	Fundação para a Ciência e a Tecnologia	FCT	500 000
Estonia	Ministry of Economic Affairs and Communications	MKM	300 000	Romania	Executive Agency for Higher Education, Research, Development and Innovation Funding	UEFISCDI	1 000 000
Estonia	Estonian Research Council	ETAG	150 000	Saxony	Saxon State Ministry for Science, Culture and Tourism	SMWK	2 000 000
Finland	Innovaatiohoiduskeskus Business Finland	BF	5 000 000	Scotland	Scottish Enterprise	SCOTENT	6 000 000
Flanders	Fonds Innoveren en Ondernemen	FIO	1 000 000	Spain	Agencia Estatal de Investigación	AEI	2 000 000
France	Agence Nationale de la Recherche	ANR	3 000 000	Spain	The Centre for the Development of Industrial Technology	CDTI	1 500 000
France	Agence de la transition écologique	ADEME	1 500 000	Spain	Departamento de Desarrollo Económico, Sostenibilidad y Medio Ambiente. Eusko Jaurkitza-Gobierno Vasco	EUSKADI	1 000 000
Germany	Forschungszentrum Jülich GmbH (BMWK)	FZJ/PtJ	17 000 000	Spain	Ente Vasco de la Energía	EVE	1 000 000
Germany	Forschungszentrum Jülich GmbH (MWIDE)	FZJ/PtJ	1 428 571	Spain	Fundación para el fomento en Asturias de la Investigación Científica Aplicada y la Tecnología	FICYT	300 000
Greece	General Secretariat for Research and Technology	GSRT	500 000	Spain	Regional Development Agency of Cantabria	SODERCAN	150 000
Hungary	National Research, Development and Innovation Office	NKFIH	1 000 000	Sweden	Swedish Energy Agency	SWEA	7 000 000
Iceland	The Icelandic Centre for Research	RANNIS	1 000 000	Switzerland	Federal Department of the Environment, Transport, Energy and Communications	DETEC-SFOE	10 000 000
Ireland	Department of the Environment, Climate & Communications/Geological Survey Ireland	GSI	400 000	Switzerland	Swiss National Science Foundation	SNSF	550 000
Ireland	Sustainable Energy Authority of Ireland	SEAI	500 000	Turkey	The Scientific and Technological Research Council of Turkey	TUBITAK	2 000 000
Israel	Ministry of National Infrastructure, Energy and Water Resources	IMNIEWR	600 000	Wallonia	Service public de Wallonie	SPW	900 000
Italy	Ministry of Economic Development	MiSE	16 000 000	Total sum (€)			124 718 571
Italy	Ministero dell'Università e della Ricerca	MUR	2 400 000				
Latvia	Latvian Council of Science	LZP	400 000				
Lithuania	Ministry of Energy of the Republic of Lithuania	ENMIN	1 400 000				
Malta	Malta Council for Science and Technology	MCST	500 000				

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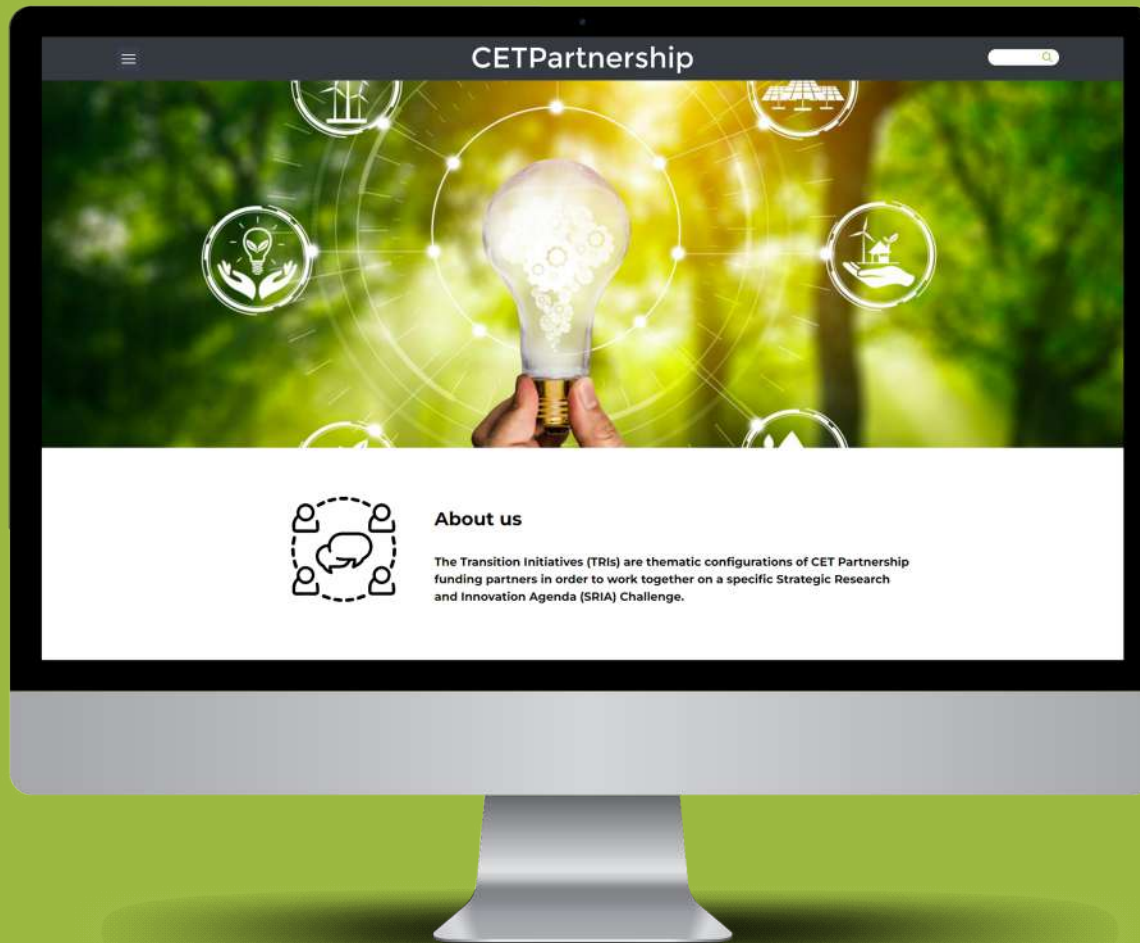


Call launch event 13 September 2022

Be ready!



The TRIs



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The TRIs

TRI 1: Integrated Net-zero-emissions Energy System

The main objective of TRI 1 is to **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.

TRI 1 Lead

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TRI 1 Office

Giuseppe Palazzo (RSE, IT)
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TRI 2: Enhanced zero emission Power Technologies

TRI 2's Mission is to **develop a pool of zero-emission power technologies and solutions based on Renewable Energy Sources** as the backbone of the future energy system, being able to deliver carbon-neutral electricity accessible to all and to contribute to the resilience of the system.

TRI 2 Lead

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

The main aim of TRI 3 is to **provide technological cleaner solutions for storage technologies, hydrogen and renewable fuels, CCS** (Carbon Capture and Storage) **and CCU** (Carbon Capture and Utilisation), promoting RD&D and innovation projects until 2030, to achieve the European goal of climate neutrality by 2050

TRI 3 Lead

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TRI 3 Office

Aiko Nakano Hylander (SWEA, SE)
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TRI 4: Efficient zero emission Heating and Cooling Solutions

The Transition Initiative Heating & Cooling (TRI4H&C) will contribute to Challenge 4 “Efficient zero-emission Heating and Cooling Solutions”, formulated in the SRIA of the CETP. The overarching goals of this initiative are the **provision of enhanced and improved heating and cooling technologies and systems** for all major parts of Europe by 2030 and to enable 100% climate-neutral heating and cooling by 2050.

TRI 4 Lead

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TRI 4 Office

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TRI 5: Integrated Regional Energy Systems

The main aim of TRI 5 is to **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.

TRI 5 Lead

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TRI 6: Integrated Industrial Energy Systems

TRI 6 aims at **developing and demonstrating a set of technical solutions for integrated industrial energy systems that enables efficient carbon-neutral industrial production** sites and takes industrial energy systems into development as part of the entire energy system. It focuses specifically on integrated solutions across industries, across energy sectors and across public and private sectors.

TRI 6 Lead

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TRI 7: Integration in the Built Environment

TRI 7 mission is to **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.

TRI 7 Lead

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