

CET Partnership

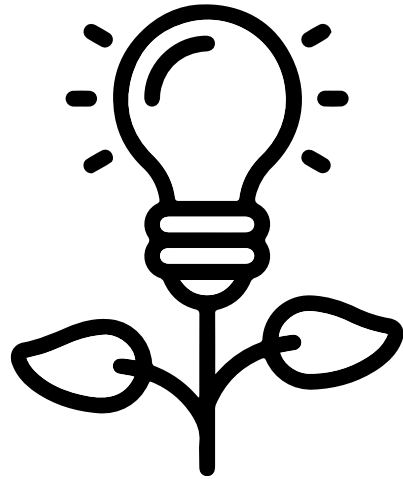
EUROPEAN PARTNERSHIP



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The CETPartnership in a nutshell

The CETPartnership enables more than **50 national and regional** RTDI programme owners and managers from **30 countries** to align their priorities, pool national budgets of 210 Mill EUR for **two joint calls in 2022 and 2023**, as well as to implement annual joint calls from 2022 to 2027



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

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



What is a TRI?

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**.

How many TRIs are there?

The CETPartnership has established the following **7 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 CETPartnership partners, known as the TRI Lead.



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



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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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TRIs

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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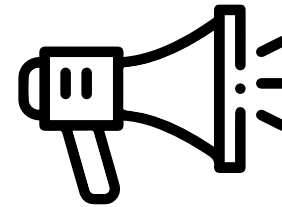
Call 2022 Preliminary timeline

Official opening of Call 2022
Coming September 2022

Call 2022 Launch Event
13th September 2022

Deadline for submitting preproposals
Coming soon

Communication on applications selected for full-proposal stage
Coming soon



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

<https://cetpartnership.eu/calls>












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Calls

Call 2022 Thematic structure

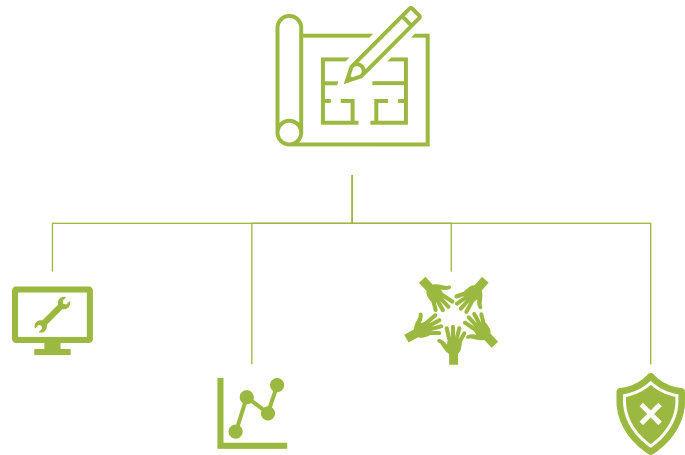
The CETPartnership 2022 Call, to be officially launched on **September 2022**, will be structured into **thematic modules**.

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.

 <p>TRI 1: Integrated Net-zero-emissions Energy System</p> <p>Call Module: TRI1 PowerPlanningTools</p>	 <p>TRI 1: Integrated Net-zero-emissions Energy System</p> <p>Call Module: TRI1 RESDemPowerflex</p>	 <p>TRI 2: Enhanced zero-emission Power Technologies</p> <p>Call Module: TRI2 Advancing RE technologies for power production through cost reduction</p>	 <p>TRI 2: Enhanced zero-emission Power Technologies</p> <p>Call Module: TRI2 Breakthrough R&D to increase RE power technologies efficiency</p>
 <p>TRI 3: Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS</p> <p>Call Module: TRI3 Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS</p>	 <p>TRI 3: Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS</p> <p>Call Module: TRI3 Enabling Climate Neutrality with hydrogen and renewable fuels</p>	 <p>TRI 4: Efficient zero-emission Heating and Cooling Solutions</p> <p>Call Module: TRI4 Heating & Cooling</p>	 <p>TRI 5: Integrated Regional Energy Systems</p> <p>Call Module: TRI5 Integrated Regional Energy Systems for a Resilient, Secure, and Renewable Energy Supply</p>
 <p>TRI 6: Integrated Industrial Energy Systems</p> <p>Call Module: TRI6 Industrial energy systems</p>	 <p>TRI 7: Integration in the Built Environment</p> <p>Call Module: TRI7 R&I in clean energy integration in the built environment</p>	 <p>TRI 7: Integration in the Built Environment</p> <p>Call Module: TRI7 Solutions to energy transition in the built environment</p>	

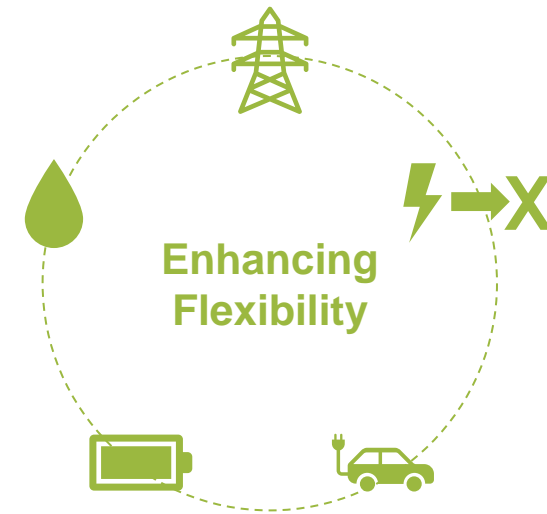
1 – Power Planning Tools

This Call Module addresses the development of **tools and methods** to plan and operate the future integrated energy systems, fostering inclusiveness, sustainability and resilience.



2 – RES Demo Power Flex

This Call Module is meant to **demonstrate technologies and solutions for enhancing the flexibility** along the energy value chain to enable the transition to **high shares of RES** in the European system.



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Calls

Preliminary Call Module vs Funding matrix (I)

Estimated Total Budget: +100 M€

Organisation	Acronym	Country/region	TRI1 PowerPlanningTools	TRI1 RESDemPowerflex	TRI2 Advancing RE technologies for power production through cost reduction	TRI2 Breakthrough R&D to increase RE power technologies efficiency	TRI3 Enabling Climate Neutrality with Storage, Renewable Fuels and CCU/CCS	TRI3 Enabling Climate Neutrality with hydrogen and renewable fuels	TRI4 Heating & Cooling	TRI5 Integrated Regional Energy Systems for a Resilient, Secure, and Renewable Energy Supply	TRI6 Industrial energy systems	TRI7 R&I in clean energy integration in the built environment	TRI7 Solutions to energy transition in the built environment
Austrian Research Promotion Agency	FFG	Austria								x	x		
Research and Innovation Foundation	RIF	Cyprus	x	x	x	x	x	x	x	x	x	x	x
Technology Agency of the Czech Republic	TA CR	Czech Republic	x	x	x	x	x	x	x	x	x	x	x
Energy Technology Development and Demonstration Programme	EUDP	Denmark		x			x			x	x		
Innovation Fund Denmark	IFD	Denmark			X	X			X			X	X
Ministry of Economic Affairs and Communications	MKM	Estonia	x	x	x	x	x	x	x	x	x	x	x
Estonian Research Council	ETAG	Estonia	x	x	x	x	x	x	x	x	x	x	x
Innovaatiorahoituskeskus Business Finland	BF	Finland	x	x	x	x	x	x	x	x	x	x	x
Fonds Innoveren en Ondernemen	FIO	Flanders	x	x	x	x	x	x	x	x	x	x	x
Agence Nationale de la Recherche	ANR	France	x			x	x	x				x	
Agence de la transition écologique	ADEME	France	x	x			x				X		
Forschungszentrum Jülich GmbH (on behalf of BMWK)	FZJ/PtJ	Germany	x	x	x	x	x		x	x	x		x
Forschungszentrum Jülich GmbH (on behalf of MWIDE)	FZJ/PtJ	Germany	x	x	x	x	x				x		
General Secretariat for Research and Technology	GSRT	Greece	x	x			x						
National Research, Development and Innovation Office	NKFIH	Hungary	x	x	x	x	x	x	x	x	x	x	x
The Icelandic Centre for Research	RANNIS	Iceland					x	x	x				
Department of the Environment, Climate & Communications/Geological Survey Ireland	GSI	Ireland						x					
Sustainable Energy Authority of Ireland	SEAI	Ireland	x	x	x	x	x	x	x	x	x	x	x
Ministry of National Infrastructure, Energy and Water Resources	IMNIEWR	Israel	x	x	x	x	x	x	x	x	x	x	x
Ministero dell'Università e della Ricerca	MUR	Italy	x		x*	x	x*	x			x*	x	
Ministry of Economic Development	MISE	Italy		x	x		x		x	x	x		x
Latvian Council of Science	LZP	Latvia	x	x	x	x	x	x	x	x	x	x	x
Ministry of Energy of the Republic of Lithuania	ENMIN	Lithuania			x			x		(x)			
Malta Council for Science and Technology	MCST	Malta	x	x	x	x	x	x	x	x	x	x	x



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Calls

Preliminary Call Module vs Funding matrix (II)

Estimated Total Budget: +100 M€

Organisation	Acronym	Country/region	TRI1 PowerPlan ningTools	TRI1 RESDemPow erflex	TRI2 Advancing RE technologies for power production through cost reduction	TRI2 Breakthrough R&D to increase RE power technologies efficiency	TRI3 Enabling Climate Neutrality with Storage Technologies, Renewable Fuels and CCU/CCS	TRI3 Enabling Climate Neutrality with hydrogen and renewable fuels	TRI4 Heating & Cooling	TRI5 Integrated Regional Energy Systems for a Resilient, Secure, and Renewable Energy Supply	TRI6 Industrial energy systems	TRI7 R&I in clean energy integration in the built environment	TRI7 Solutions to energy transition in the built environment
The Research Council of Norway	RCN	Norway					x	x	x				
Pays de la Loire Region Council	RPL	Pays de la Loire			x								
National Centre for Research and Development	NCBR	Poland	x	x	x	x				x	x		
Fundação para a Ciência e a Tecnologia	FCT	Portugal	x	x	x	x	x	x	x	x	x	x	x
Executive Agency for Higher Education, Research, Development and Innovation Funding	UEFISCDI	Romania					x	x	x	x			
Saxon State Ministry for Science, Culture and Tourism	SMWK	Saxony	x	x	x	x	x	x	x	x	x	x	x
Scottish Enterprise	SCOTENT	Scotland				x		x	x		x		x
Agencia Estatal de Investigación	AEI	Spain	x	x	x	x	x	x	x	x	x	x	x
Ente Vasco de la Energía	EVE	Spain											
Fundación para el fomento en Asturias de la Investigación Científica Aplicada y la Tecnología	FICYT	Spain	x	x	x	x	x	x	x	x	x	x	x
The Centre for the Development of Industrial Technology	CDTI	Spain	x	x	x	x	x	x	x	x	x	x	x
Departamento de Desarrollo Económico, Sostenibilidad y Medio Ambiente. Eusko Jaurlaritz-Gobierno Vasco	EUSKADI	Spain			x	x					x		
Regional Development Agency of Cantabria	SODERCAN	Spain	x	x	x	x	x	x	x	x	x	x	x
Swedish Energy Agency	SWEA	Sweden	x	x	x	x	x	x	x	x	x	x	x
Federal Department of the Environment, Transport, Energy and Communications	DETEC-SFOE	Switzerland		x	x		x		x		x		
Swiss National Science Foundation	SNSF	Switzerland								x		x	(x)
Dutch Research Council	NWO	The Netherlands			x	x							
Netherlands Enterprise Agency	RVO	The Netherlands	x		x		x	x	x	x	x	x	
The Scientific and Technological Research Council of Turkey	TUBITAK	Turkey	x	x	x	x	x	x	x	x	x	x	x
Service public de Wallonie	SPW	Wallonia	x	x	x	x	x	x	x	x	x	x	x

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Thank You