

Next generation of renewable energy technologies

Horizon Europe

CODICE	AMBITO
HORIZON-CL5-2026-04-Two-Stage-D3-02	Internazionale
LOCALITÀ	STATO
Europa	Aperto
PROGRAMMA	CURATO DA
Horizon Europe	Maria Macedo
GENERATO IL	
28 aprile 2026	

Descrizione

Objectives

This incentive aims to accelerate the development of breakthrough renewable energy technologies that facilitate a faster transition toward a net-zero greenhouse gas emissions economy in the European Union by 2050. Eligible applicants are consortia of legal entities from eligible countries, with the exclusion of legal entities established in China. Proposals should focus on high-risk, high-return R&D, targeting substantial environmental impact reduction, economic viability, and public trust. Solutions must foster a long-term innovation base and address broader issues such as social acceptance, just transition, and policy alignment. The intended beneficiaries include energy producers, technology providers, economic sectors, European industries, researchers, and ultimately, European citizens and communities.

Project Types

Projects should address transformative technology developments across the renewable energy spectrum, including catalyst development, renewable energy storage, integrated and hybrid generation systems, heating and cooling, fuels production, direct solar fuels, and solar-driven chemical processes. Excluded are hydrogen production through electrolyzers, fuel cells, basic material research, and batteries. The eligible technology readiness levels (TRL) are from 4 to 5 by project's end. Key eligible expenses typically comprise personnel costs, research infrastructure and equipment, subcontracting, travel, and activities to ensure environmental sustainability, societal acceptance, and technology transfer from non-energy sectors.

Funding

The total indicative budget for this topic is €23,500,000 for the year 2026, with an expected EU contribution of around €4,000,000 per project. Up to six projects are expected to be funded. The co-financing rate is a maximum of 100% of eligible costs, reflecting the HORIZON Research and Innovation Action (RIA) rules, provided as lump sum grants.

Detailed funding rules, differentiated funding rates, and maximum grant sizes are described in the General Annexes of Horizon Europe, with possible adjustments for non-profit entities.

Key Aspects

The action accepts proposals in a two-stage process with precise deadlines. The maximum project duration is not specified but is generally in line with typical HORIZON-RIA projects (33-48 months). Projects must achieve at least TRL 4–5 by the end. Evaluation criteria focus on excellence, impact (societal, economic, environmental), and quality and efficiency of the implementation. Result indicators include establishing technological feasibility, reducing environmental impacts, increasing renewable energy integration, fostering circularity and material efficiency, and supporting engagement from social sciences and humanities disciplines. Mandatory compliance includes adherence to admissibility and eligibility rules, operational and financial capacity, and use of appropriate EU earth observation data if applicable.

Date e Scadenze

DATA DI PUBBLICAZIONE

Non definita

DATA DI APERTURA

18 dicembre 2025

Fasi di Candidatura

- Phase 1: 31 marzo 2026 alle ore 16:00
- Phase 2: 20 ottobre 2026 alle ore 15:00 (175 giorni rimanenti)

Dettagli Finanziari

TIPO DI SUPPORTO

Contributo a Fondo Perduto

TASSO MASSIMO DI FINANZIAMENTO

100%

BUDGET

23.5M€

VALORE DI PROGETTO AMMISSIBILE

Up to 4M€

DURATA MASSIMA

60 mesi

Criteri e Documenti

Spese Ammissibili

- Personnel Costs
- Travel costs
- Equipment costs
- Other goods, works and services costs
- Subcontracting
- Indirect Costs

Condizioni di Accesso

- Legal entities from EU Member States and Associated Countries
- Consortium must include partners from at least three different EU Member States or Associated Countries
- Compliance with general and specific admissibility and eligibility criteria

- Exclusion of legal entities established in China

Criteri di Selezione

- Excellence (scientific and technical merit)
- Impact (contribution to policy and partnership KPIs)
- Quality and efficiency of implementation

Informazioni Obbligatorie

- Application form (Part A and Part B)
- Budget

Indicatori di Risultato

- Achievement of TRL 4–5
- Evidence of environmental impact reduction
- Increased integration of renewable energy in systems
- Advancement of circularity and material efficiency
- Enhanced social acceptance and trust

Dettagli Programma UE

ID BANDO

HORIZON-CL5-2026-04-Two-Stage

CLUSTER

5

DESTINAZIONE

Ensuring more efficient, sustainable, secure, and competitive renewable and decarbonised energy supply (2026-27)

MODALITÀ DI PRESENTAZIONE

Two-stage

CONTRIBUTO UE

around €4,000,000

PROGETTI PREVISTI

6

REGOLA DEL TASSO DI FINANZIAMENTO

Maximum 100% of eligible costs, with differentiated rates for some entity types as per Horizon Europe General Annexes

Idoneità

Settori Idonei

- Energia e Ambiente
- Industria

Dimensioni Aziendali

- Micro
- PMI
- Small Mid-Cap
- Mid-Cap
- Grande

- Enti privati non profit
- Enti pubblici

Modalità di Candidatura

- Consorzio / Co-promozione

Tipi di Azione

- Research and Innovation Actions
- Development of renewable energy technologies
- Integration of energy systems
- Hybrid renewable solutions
- Environmental sustainability
- Technology transfer

Link Ufficiali

Regolamento Ufficiale:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORI-ZON-CL5-2026-04-Two-Stage-D3-02?order=DESC&pageNumber=1&pageSize=50&sortBy=startDate&isExactMatch=true&status=31094502&programmePart=43120821&frameworkProgramme=43108390&deadlineDate=1780182000000,1798675200000>

Pagina Grantavia: <https://grantavia.com/it/incentives/next-generation-of-renewable-energy-technologies>

Prenota un incontro: <https://calendly.com/ines-carreira-fi-group/reuniao>