



**AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE,  
L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE**





## Strutture e Centri di ricerca

- 9 Centri di ricerca
- 5 Laboratori di ricerca
- 43 impianti sperimentali
- 11 uffici locali
- Liasion office di Bruxelles

## 4 Dipartimenti

- Fusione e sicurezza nucleare
  - Sostenibilità dei sistemi produttivi e territoriali
  - Tecnologie energetiche e fonti rinnovabili
  - Efficienza Energetica
- 850 brevetti 11 spin off

2400 dipendenti





## SOSTENIBILITA' DEI SISTEMI PRODUTTIVI E TERRITORIALI



AMBIENTE E  
CAMBIAMENTI  
CLIMATICI



ECONOMIA  
CIRCOLARE



ACQUA E RIFIUTI



**MOBILITA'**  
SOSTENIBILE



SISTEMI E  
TECNOLOGIE PER LA  
**QUALITA' DELL'ARIA**

## ENERGIA



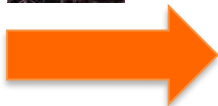
FONTI RINNOVABILI, IDROGENO, SMART SECTOR  
INTEGRATION



EFFICIENZA ENERGETICA



FUSIONE E SICUREZZA NUCLEARE



## E NON SOLO



SALVAGUARDIA E VALORIZZAZIONE DEL PATRIMONIO  
ARTISTICO, STORICO E ARCHITETTONICO



PRODOTTI E SISTEMI INNOVATIVI PER LA SALUTE



**MATERIALI E PROCESSI PER UN'INDUSTRIA**  
MANIFATTURIERA COMPETITIVA



SICUREZZA DEL TERRITORIO



SICUREZZA DELLE INFRASTRUTTURE CRITICHE



FILIERE E SISTEMI ALIMENTARI SOSTENIBILI - AGRIFOOD

## MISSION:

R&D, Design, Prototyping and advanced technical services for **fusion** and **new generation nuclear** energy, **closure of fuel cycle** and nuclear plants **safety and security**.

Coordinator of the National Fusion Research Programme

- Superconductivity
- Advanced technologies for cultural heritage
- Safety and security
- Radiopharmaceuticals
- Targeted Cancer therapies



Bill Gates visits the ENEA Research Centre in Frascati.



## MISSION:

R&D, Design, Prototyping and advanced technical services in the sectors of **renewable energy sources** – solar thermal and thermodynamic energy, photovoltaics and bioenergy – and **energy end uses**.

Innovative technologies for **decarbonization** and energy transition, **smart grid**, **energy storage**, **sustainable mobility**, **hydrogen** and **fuel cells**.

ICT and **CRESCO** Supercomputer

- ✓ **Concentrating solar power – CSP** (ENEA patent)

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Contract Agreement with **ARCHIMEDE Solar Energy** for the production of 70.000 tubes- **ENI** Agreement)

- ✓ **SMART AND SUPER GRID**

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Collaboration agreement between Italy and Japan for electric grids of the future, **ENEA-Nedo-Toshiba Corporation**

- ✓ **COORDINATOR OF THE ENERGY NATIONAL CLUSTER**

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with **Enel, ENI, Terna, General Electric, CNR, RSE** and Consorzio **EnSIEL**



✓ **Smart-city**

Demonstration projects for **urban energy requalification** and the creation of **smart-districts**

**New technologies for the production of energy from renewable sources** – Agreement with **Enel** wave energy – new generation photovoltaics – with **ENI** for solar thermodynamic energy with **Maire Tecnimont**



✓ **Second-generation innovative Biofuels**

projects with **Eni, Novamont, Versalis**



MISSION:

R&D, design, prototyping and advanced technical services for **circular economy**, **air** and **water** quality, **waste management**, **reduction of emissions** and their related impact, **landscape preservation** and monitoring (hydrogeological and seismic risks), biotechnologies and agro-industrial production chains, health preservation, eco-innovation.



**An integrated-approach  
working methodology**



## ENEA

- represents the national public and private system in the Coordination Group of **ECESP - the European Circular Economy Stakeholder Platform** – promoted by the EU and EECS – the European Economic and Social Committee;

- presides over and coordinates **ICESP - the Italian Circular Economy Stakeholder Platform** – involving public and private stakeholders and acting as a national ECESP «mirror» nazionale;

- is scientific coordinator of **CICERONE** project aimed at developing a **European Strategic Funding Agenda for coordinated R&I for circular economy**

Agreements with the main national public and private stakeholders

- **ACEA, ENI, AMA, CONFCOMMERCIO, Federdistribuzione, Maire Tecnimont** -

**ENEA promotes the creation of a  
National Agency for the efficient use of resources**



## MISSION:

**Technical support and supply of specialized technical services to businesses, citizens and central and peripheral Public Administration specialist technical services for higher energy efficiency**

**Support on tax incentives (65% ecobonus, etc...) also using the proper web site dedicated to receive the relevant documents, which already counts for over 5 million accesses**

**National Energy Efficiency Agency**

- ✓ **National information and training Plan on Energy Efficiency National MiSE-ENEA campaign**  
ItalianinclassA
- ✓ **Energy requalification of and implementation of safety measures for buildings:** collaboration with Anci, Ance, Confcommercio
- ✓ **Energy efficiency in the agri-food system:**  
collaboration with **MIPAAF**
- ✓ **Energy efficiency in Public Administration –**  
Agreement with **GSE** and Agenzia per la Coesione Territoriale



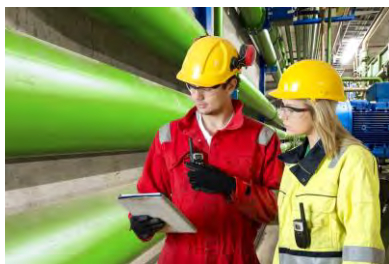


### Energy Requalification of buildings (condominiums)

**The ENEA Deep renovation plan** is aimed at the energy upgrading of old '50s-'70s buildings

In this sector, ENEA:

- Provides information and delivers training on Ecobonus, Seism Bonus and Assignment of Debt, also by opening specific regional consulting centres.



### Activities for businesses

- Drawing up guidelines on how to perform energy audits;
- Standardization of the accounting phases;
- Development of energy benchmarks and key performance indicators (KPI) in a set of production processes;
- Development of multi-sector training modules in collaboration with the sector



### Energy upgrading of public and private buildings

- Design and management of data collection systems at the national level on the national Incentives mechanisms and Energy Performance Certificate (EPC) of buildings.

# La partecipazione dell'ENEA a Horizon 2020: performance



\* *EC Funding and Tenders Portal, dicembre 2021*

\*\* *EC H2020 Dashboard, Italy Country profile, marzo 2022*

## La partecipazione dell'ENEA a Horizon 2020: contratti stipulati (2014 – dicembre 2021) *progettive.enea.it*

- ✓ **241 contratti stipulati: 191** da bandi competitivi + **50** da KIC EIT Raw materials, Climate e Urban Mobility
- ✓ Finanziamento a ENEA: **48,9 + 3,9** milioni di EUR dall'EIT KIC
  - **18,1%** dalla SC3 'Energy'
  - **14,6%** dalla SC5 'Climate, Environment, Resource Effic. and Raw Materials'
  - **14,5%** da Euratom fissione e radioprotezione
  - **10%** da European Research Infrastructures
  - **6,8%** da SC2 Food security
  - **5,3%** da SC7 Secure Societies



- ✓ **7 milioni di euro** dalla Joint Technology Initiative Fusion for Energy (JTI F4E)
- ✓ **4-5 milioni di euro/anno** dal Consorzio Eurofusion (ENEA *programme manager* per l'Italia)

## **HORIZON EUROPE: primi risultati** *(EC funding and tenders portal, 31 marzo 2022)*

Primi bandi **Horizon Europe** pubblicati da giugno 2021  
scadenze a partire da settembre 2021

Totale proposte presentate da ENEA al 31 marzo 2022: **122**

- 91 Horizon Europe**
- 16 Euratom2027**
- 9 LIFE2027**
- 3 Digital**
- 1 Single Market-COSME**
- 1 European Defend Fund**
- 1 Erasmus**

**Primi risultati (al 31 marzo 2022):**

59 proposte valutate

25 dichiarate finanziabili





## Participation in **Technology Platforms, international alliances** and **networks**:

- ✓ **EnR** (*European Energy Network*)
- ✓ **BIC** (*Bio-based Industries Consortium*)
- ✓ **TAFTIE** (*The European Network of National Innovation Agencies*)
- ✓ **SET PLAN** (*The European Strategic Energy Technology Plan*)
- ✓ **ENERO** (*European Network of Environmental Research Organisations*)
- ✓ **EEFIG** (*Energy Efficiency Financial Institution Group*)
- ✓ **EERA** (*European Energy Research Alliance*)
- ✓ **Hydrogen Europe Research**
- ✓ **KIC** (*Knowledge and Innovation Communities*):
  - Raw Material
  - Urban Mobility
- ✓ **MEDENER** (*Mediterranean Association of National Agencies for Energy Management*)
- ✓ **UfM** – Union for Mediterranean
- ✓ **RES4AFRICA** (*Renewable Energy Solutions for Africa*)
- ✓ **RCREEE** **Regional Center for Renewable Energy and Energy Efficiency**
- ✓ **Recent new collaboration with ECREEE – ECOWAS Center for Renewable Energy and Energy Efficiency**





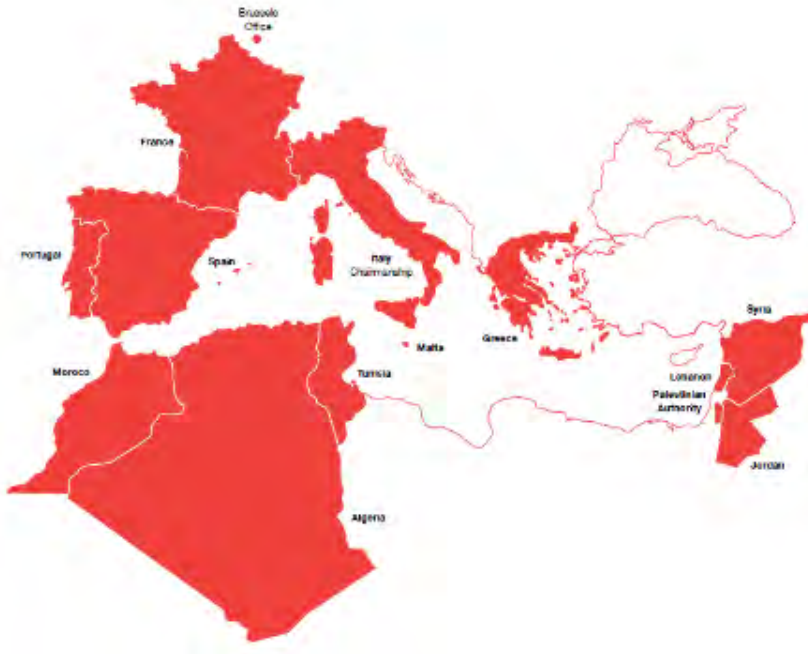
**Presidenza e Segretariato Generale ENEA da 2017**

**[www.medener.org](http://www.medener.org)**

# MEDENER

The Mediterranean Association of National Agencies for Energy Management

## In a glimpse



- MEDENER brings together 13 National Energy Agencies from the northern and southern shores of the Mediterranean
- Since 1997, MEDENER has facilitated the sharing of experiences, know-how, and best practices among its members and international partners, through bilateral or multilateral cooperation, in the areas of EE and RE
- The Association participates in the work carried out in the framework of the Union for Mediterranean (UfM)
- Since 2018, MEDENER coordinate the meetMED project “Mitigation enabling energy transition in the Mediterranean region” funded by DG NEAR – EU Commission [www.meetMED.org](http://www.meetMED.org)



Merci pour votre attention  
Grazie per l'attenzione

Roberta Boniotti



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