



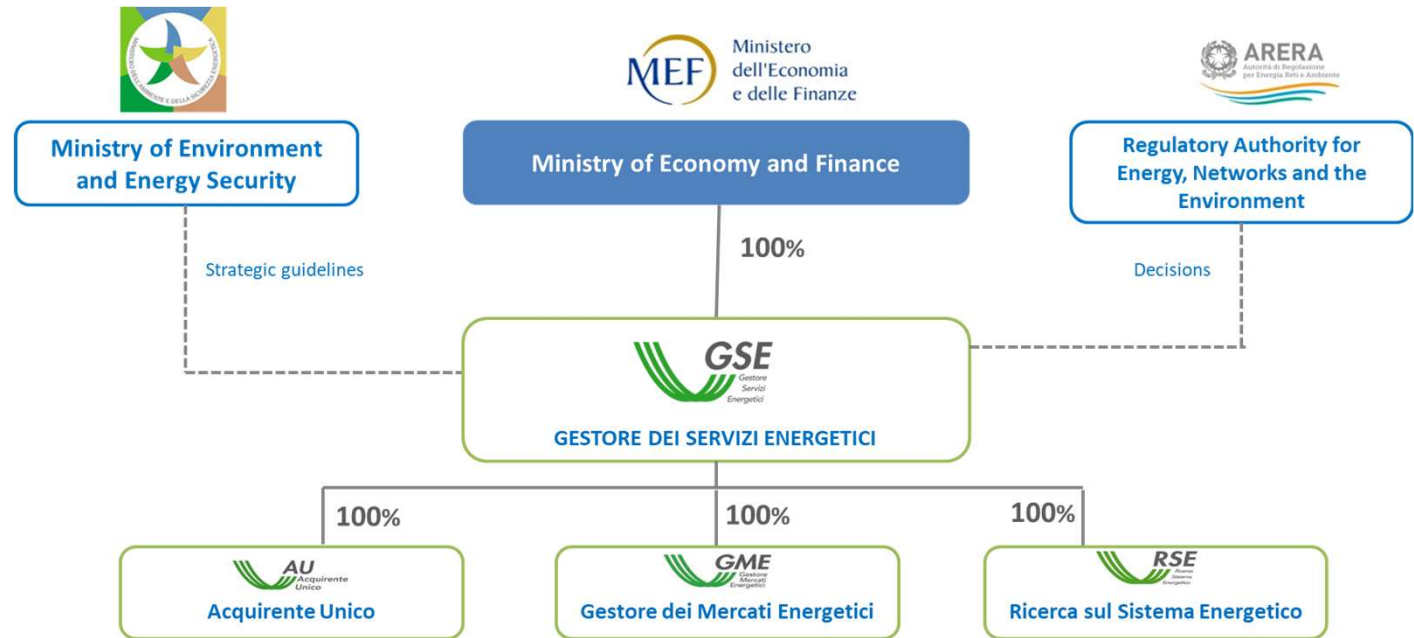
# GSE'S ROLE AND INTERNATIONAL ACTIVITIES

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9th EUSAIR Annual Forum - SESSION ON ENERGY  
Noemi Magnanini – Senior Officer International Relations

## THE GSE GROUP

*Our Mission is to Promote Sustainable Development. Italy has Invested in the Promotion of Environmental Sustainability and in the transition to Low Carbon economy.*



***GSE is the Italian Implementing Agency for Energy Sustainability***

***€12.06 billion group turnover in 2022***

# GSE – MAIN ACTIVITIES



## INCENTIVES AND MARKET ACTIVITIES FOR RES-E POWER PLANTS

- Power plants **qualification activities**
- **Support schemes** management, energy **trading**, and **certification** of RES energy
- Energy production **selling** and **forecast**



## RES-H AND ENERGY EFFICIENCY SUPPORT AND PROMOTION

- **White certificates**
- **Conto Termico**
- High Efficiency **CHP**



## SUSTAINABLE MOBILITY SUPPORT MECHANISMS

- **Biomethane**
- Advanced **biofuels**
- **Electric vehicles charging** support



## VERIFICATION ACTIVITIES

- On **RES** power plants
- On **energy efficiency** interventions
- On **CHP** plants also combined with **DHC** networks



## PUBLIC ADMINISTRATION, CITIZENS AND COMPANIES ASSISTANCE

- Assistance to Local **Authorities, Governmental Bodies** and other kinds of **Public Administration** for energy efficiency improvements and public services renovation.
- **Training and Information** for sustainable energy initiatives
- Best cases promotion



## INSTITUTIONAL AND TECHNICAL SUPPORT ACTIVITIES

- **Statistics, technical – economic analyses** and support for the elaboration of plans and programs and during their **monitoring process** (ES, NECP, etc.)
- **Emissions Trading**
- Communication
- **International** relations and projects



**INCENTIVES AND  
ACTIVITIES FOR  
RES-E POWER  
PLANTS**

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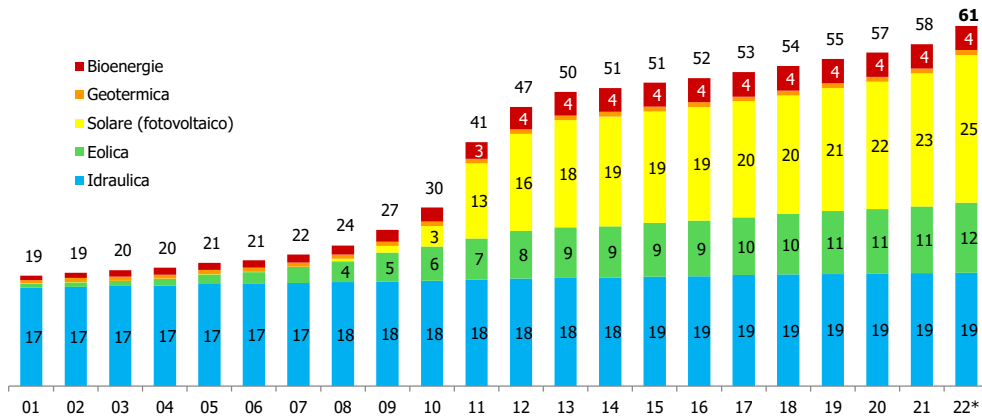
# THE ITALIAN RENEWABLE ENERGY DEVELOPMENT

Italy is deeply involved in the clean energy transition through the implementation of a secure, sustainable and affordable energy system.

In **2022 renewable energy power plants generated (101 TWh)**. RES promotion policies made an important contribution to these results.

**At the end of 2022, approximately 61 GW of RES plants** were installed in Italy in the electricity sector; solar sources concentrate the greatest gross efficient power (**25 GW**), followed by **hydro (19 GW)** and **wind (12 GW)**.

Gross efficient power of electricity production plants powered by renewable sources [GW]

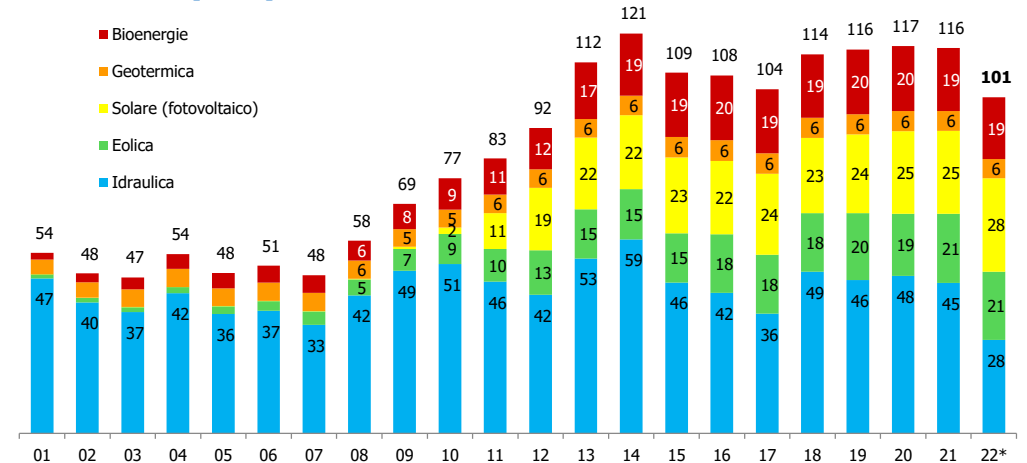


Fonte: TERNA-GSE

In **2022, overall production from RES stands at around 101 TWh**, a sharp decrease compared to the previous year (-13%), mainly due to the strong contraction in hydroelectric production (-38%); solar production grows by +12%; slight variations for the other sources.

Solar source and the water source (a total of 56 TWh almost equally distributed) represent 56% of the total renewable electricity generation.

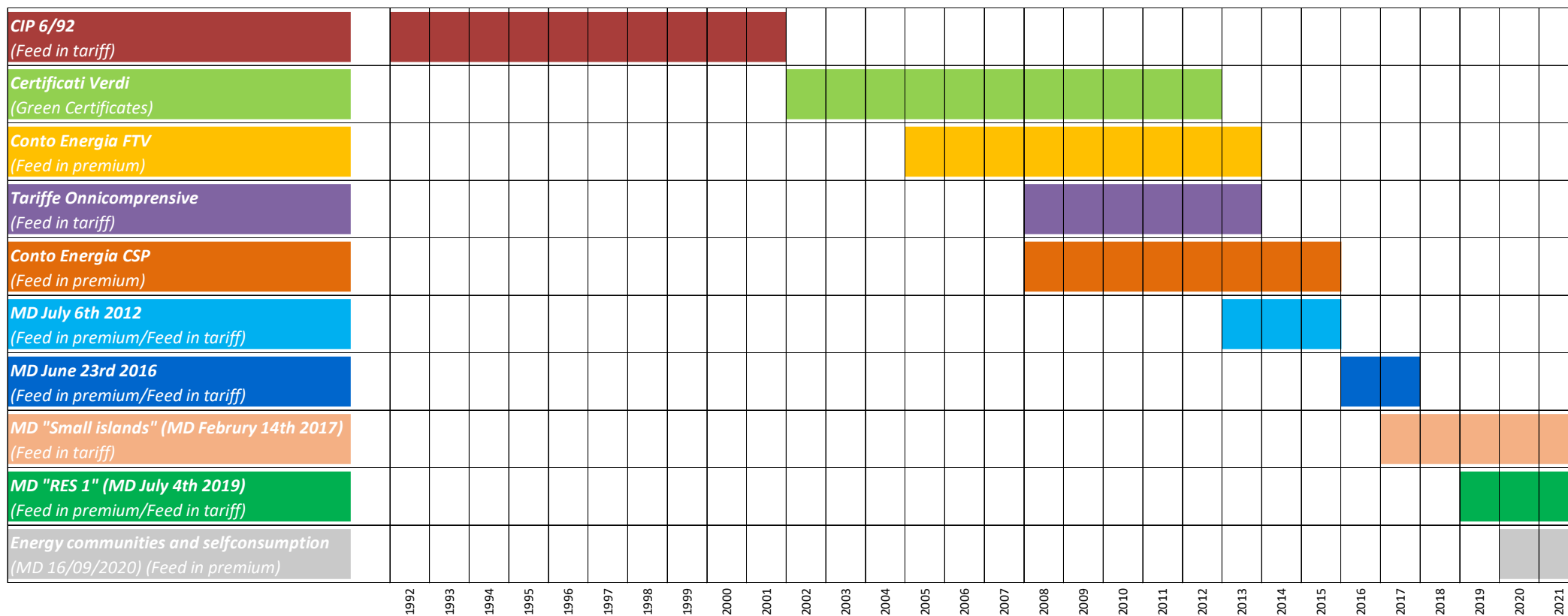
Gross production of electricity production plants powered by renewables [TWh]



Fonte: TERNA-GSE

# ITALIAN RES-ELECTRICITY SUPPORT SCHEMES

- Several incentive mechanisms have been deployed to support RES power plants evolution
- From 2012 support schemes were more based on **competitiveness**, through the introduction of auction and registries



## GSE MANAGEMENT OF SUPPORT MECHANISMS

GSE manages **the support mechanisms** from both **technical and economic-administrative** perspectives: receipt of the projects applying for the incentives, plants qualification and verification, energy measurements analysis, calculation and issue of incentives, sale of withdrawn energy.



management and sale of withdrawn energy  
(only for the mechanisms for which GSE  
withdraws energy)

*Plants verifications (documents review and on-site)*

Technical and administrative modifications



**INTERNATIONAL  
ACTIVITIES:  
COOPERATION  
AND TECHNICAL  
CAPACITY  
BUILDING  
PROJECTS**

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# GSE INTERNATIONAL ACTIVITIES

## International Organizations and multilateral Initiatives

**GSE – in close cooperation with Italian Ministries - participates in the main international projects and multilateral initiatives sharing the Italian experience, national results and regulatory framework implemented in the RES sector (IEA, IRENA, Mission Innovation, G7, G20 etc.).**



**GSE is the Italian focal point and represents Italy within several IRENA activities such as in the “The Long-term Energy Scenarios for the Clean Energy Transition Campaign” and Collaborative Framework**

**GSE is Italy’s contracting party in the Renewable Energy Working Party and in the Technology Collaboration Programme**

**GSE supports the Italian Ministry for Environment and Energy Security in the G7 and G20 multilateral technical activities**

**GSE represents Italy as Vice Chair of the Group of Expert on Renewable Energy - GERE**

**GSE is the Member of OMEC and participates in all the Association’s Working Group: Strategy and Cooperation, Energy Transitions, Investment, Energy Security.**

**GSE is the Italian focal point and represents Italy within several UfM Activities**

**GSE’s Statistical Office participates regularly in the works of ESWG – Energy Statistics Working Group.**

**GSE is a member of the Association of Issuing Bodies (AIB) – ECS (European Energy Certificate System).**

**GSE is founding Member of RES4AFRICA and participates and promotes the Advanced Training Course 2022 dedicated to African countries in collaboration with Res4Africa Foundation and with the strategic support of Italian Ministry of Foreign Affairs**

# GSE INTERNATIONAL ACTIVITIES

## International projects and capacity buildings activities

GSE has a relevant experience in promoting cooperation projects and international activities in the clean energy transition and climate sustainability sectors, in particular in the **institutional know-how exchange** and **capacity building fields**



GSE is Project Leader in several **TWINNING** project financed by European Commission to promote capacity building activities on **Countries which are developing a favorable regulatory framework for renewable energies and energy efficiency.** Actually we are working on **Palestine, Malawi, Albania.**



GSE has hosted TAIEX project financed by European Commission. We have organized study visit on GSE's premises for civil servants from Lithuania, Türkiye, Moldova



**Horizon 2020 "GreenRoad" Project** partner related to **"National roundtables to implement the Smart Finance for Smart Buildings initiative"**



GSE participates to EU projects in the field of RES, such as the **Concerted Action on the implementation of the RES directive (CA-RES, CA-RES2 etc)**



GSE participates in the **Know-How Exchange Program Training course** dedicated to Balkan Regulators in collaboration with **Italian Energy Regulator ARERA**



GSE collaborates with other **Foreign Agencies and Regulators** in order to promote sectorial initiatives and the exchange of best-practices (also set in specific **Memorandum of Understandings**)



**Development of modern energy systems through the implementation of key regulatory issues, will contribute to enable and stimulate new investments in RES and clean energy projects**

# GSE INTERNATIONAL ACTIVITIES – TWINNING PROJECTS

## TWINNING

### Ongoing activities

### GSE ADDED VALUE



### Areas of expertise



#### **Palestine**

*“Strengthening the Institutional Capacity of the Palestinian Energy And Natural Resources Authority (PENRA) and of The Palestinian Electricity Regulatory Council (PERC)”*



#### **Malawi**

*“Strengthening the Institutional and Technical Capacity of the Malawi Energy Regulatory Authority (MERA)”*



Evaluation of operational performance of electric utility companies

Collection and analysis of large volumes of data

Drafting energy regulations, electric tariff formulation and incentive programs development

Assessment of distribution companies according to published indicators

Performing benchmarking of electric distribution companies

Economic evaluation of energy efficiency projects/technologies

Technical requirements to connect renewable to distribution systems

# GSE INTERNATIONAL ACTIVITIES – TWINNING PROJECTS

## TWINNING LIGHT



### Georgia

“Assisting Georgian National Energy and Water Supply Regulatory Commission (GNERC) in Creating Enabling Environment for Digitalisation and Developing Digitalisation Strategy”



Completed in  
february 2023



### Albania

“Strengthening the overall capacity and effectiveness of the Agency for Energy Efficiency”

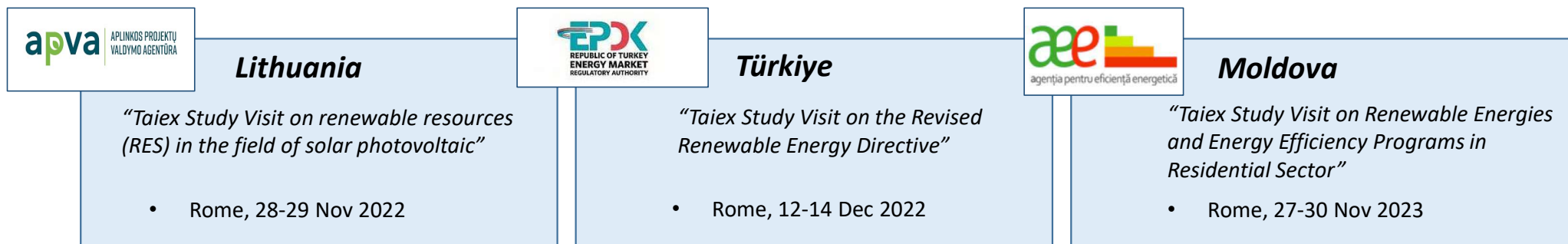


Completed in  
march 2024

## Italian organizations involved in Twinning to date



# GSE INTERNATIONAL ACTIVITIES – TAIEX PROJECTS



- Process of adaptation to achieve the **Renewable Energy Directive II (REDII)** targets;
- *Focus: RES, EE and biofuels*

- Promotion of EE and production and use from RES to meet the requirements of the **Union’s environmental acquis**;
- *Focus: Solar photovoltaic sector*

- Strengthening of institutional capacity for the implementation of policies in the energy sector;
- *Focus: EE in residential sector*



*Memorandum of Understanding between GSE and AEE*

## Italian organizations involved





**THANK YOU  
FOR  
YOUR ATTENTION**

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**GSE  
THE ENERGY  
OF THE PRESENT**

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