



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

ENEA

Italian National Agency for New Technologies, Energy and the Sustainable Economic Development

Marcello Peronaci

www.enea.it

*Responsible of the Strategic Support Unit
of the Department for Sustainability*



About us

- **It is a public RTO** (Research and Technology Organization) operating in the fields of energy, the environment and new technologies to support the Country's competitiveness and sustainable development

- ENEA's **mission** is to develop new technological solutions to meet the societal challenges, fostering transition to a low-carbon and circular economy

- **The institutional mandate** of the Agency is to disseminate and transfer knowledge, innovation and technology to industry, institutions and civil society at large



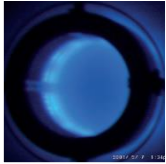
Activities

ENEA's activities span many fronts ranging from basic to **applied research** and **innovation**:

- **Research**: Basic, mission-oriented, applied and industrial research, also through the development of prototypes and product industrialization
- **Technology Transfer**: Dissemination and transfer of research results to industry and public administrations, and exploitation for production purposes
- **Advanced services**: Studies, measurements, tests and assessments tailored to both public and private bodies and enterprises
- **Training and information**: Activities aimed at broadening sector expertise and public knowledge and awareness



Research and Development



Fusion & Nuclear Safety

- Fusion
- Fission (new gen)
- Radiation protection
- Nuclear safety & security
- Ionizing/non ionizing radiation applications



Energy Technologies

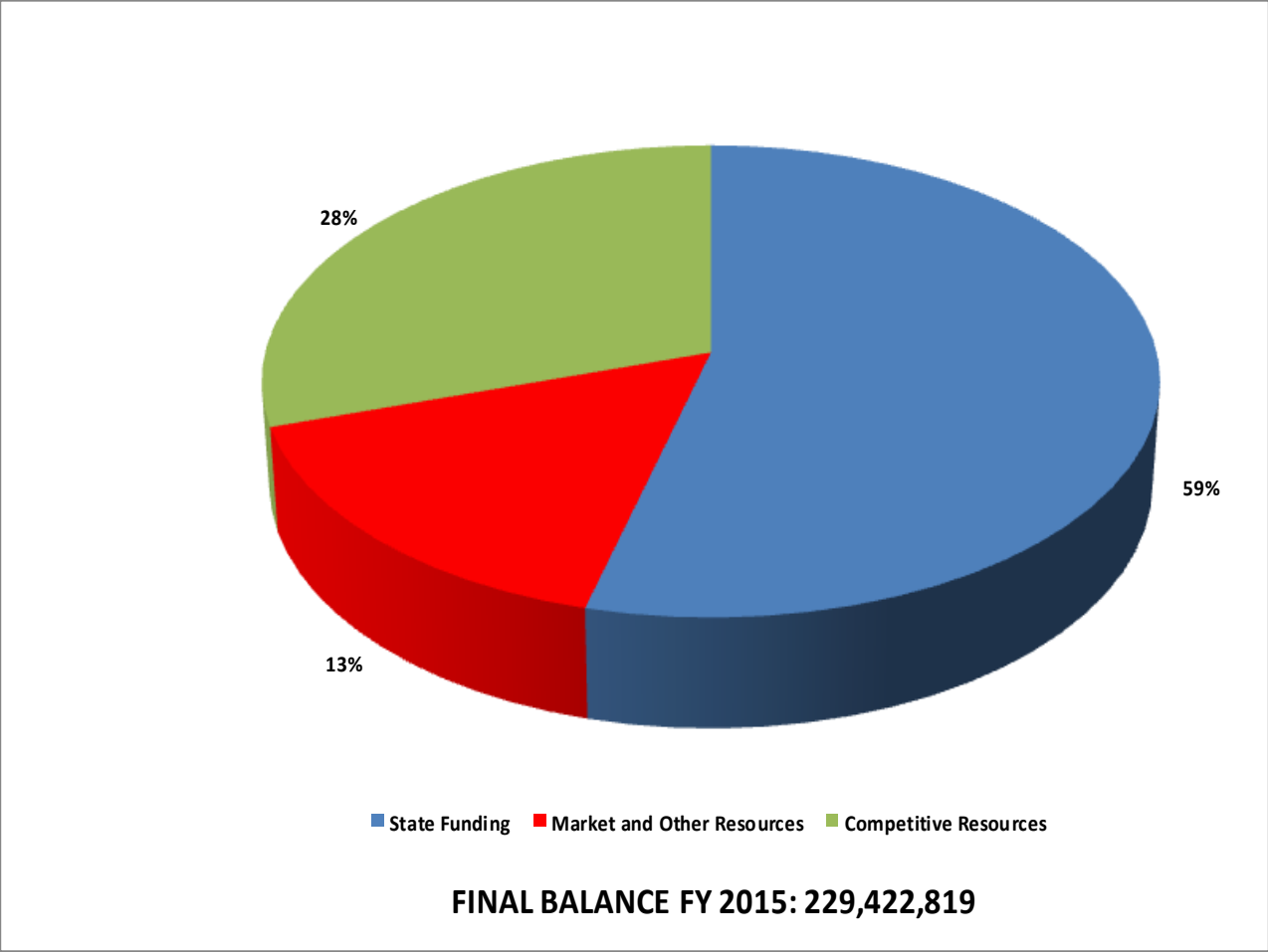
- RES (PV, CSP)
- Energy efficiency technologies
- Bio-fuels
- Smart grids
- Storage
- Sustainable Mobility
- Advanced energy materials
- Sustainable use of fossil fuels



Sustainability

- Resource efficiency
- Climate change: modeling, adaptation and mitigation
- Environmental technologies
- Innovative materials
- Environmental characterization, prevention and recovery
- Seismic and natural hazards assessment and prevention
- Bio and nanotechs
- Agrifood
- Health

Funding Sources and Balance





Italian National Agency for New Technologies,
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Department for Sustainability

www.sspt.enea.it

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The Department's strategic goals are mainly

- **Competitiveness and innovation of the production systems**
- **Management, valorization and protection of the territory and the environment**
- **Quality of life and social inclusion**
- **Climate change**
- **Training and dissemination**

Methodological approach



Energy

Mobility



Waste

Service network



Natural Resources



Manufacturing

*A systemic approach
for a complex world*



Quality of life, Life style
Social and Cultural issues



Economics
Employment



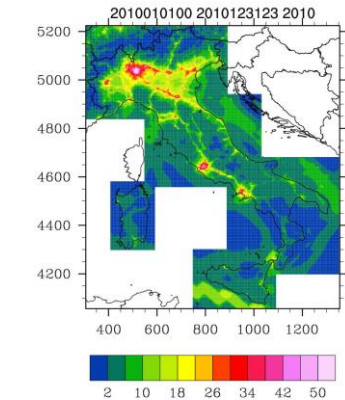
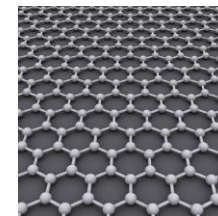
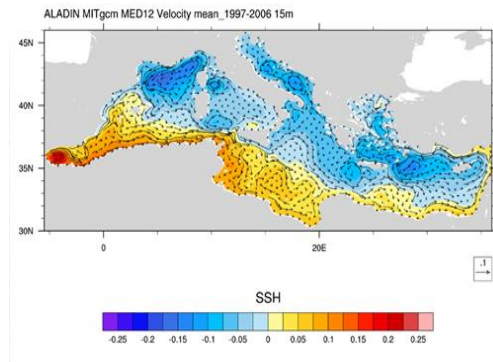
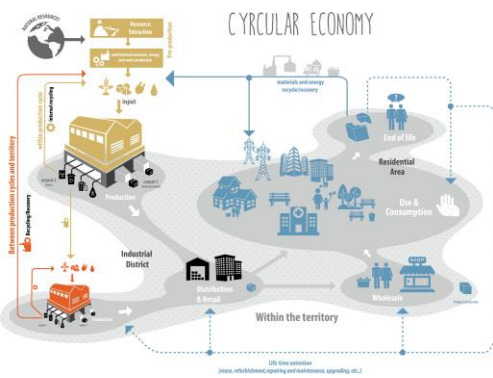
Construction

Smart Governance – Smart Areas

Main partners / Clients



- **Public Administrations** (Ministries, Regions, Local Administrations, national public Agencies)
- **Industrial sector** (also including SMEs)
- **European Commission**



The Department's human resources and facilities

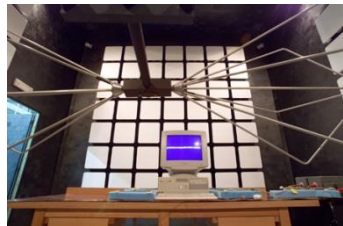


58 Research infrastructures and facilities around Italy

Human resources
550 researches and staff employees

21 Tempi determinati
29 Fellowships

Doctorate, Post-doc, Visiting scientists



Overall Department structure

The Department is organized in 6 Divisions:

- **Resource Efficiency and circular economy**
- **Sustainable Materials**
- **Models and Technologies for Risks Reduction**
- **Protection and Enhancement of the Natural Capital**
- **Biotechnologies and Agroindustry**
- **Health Protection Technologies**

- **Technical and Strategic Support Unit**
- **Administrative Unit**

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