



The background is a solid green color with several large, curved, overlapping shapes in a slightly darker shade of green. These shapes create a sense of movement and depth, resembling stylized leaves or flowing liquid. The text is centered in the middle of the image.

We protect the present  
We guarantee the future



#### BOARD OF DIRECTORS

Luigi Perri - Chairman

Emanuele Fontani - Chief Executive Officer

Raffaella Di Sipio - Member of the Board

Luce Meola - Member of the Board

Enrico Zio - Member of the Board

#### BOARD OF STATUTORY AUDITORS

Luigi La Rosa - President

Angela Daniela Ianni - Standing Statutory Auditor

Salvatore Lentini - Standing Statutory Auditor

Luisa Foti - Alternate Statutory Auditor

Maurizio Accarino - Alternate Statutory Auditor

#### COURT OF AUDITORS (CORTE DEI CONTI) COMMISSIONER

Rossana De Corato - Court of Auditors Delegate of Control



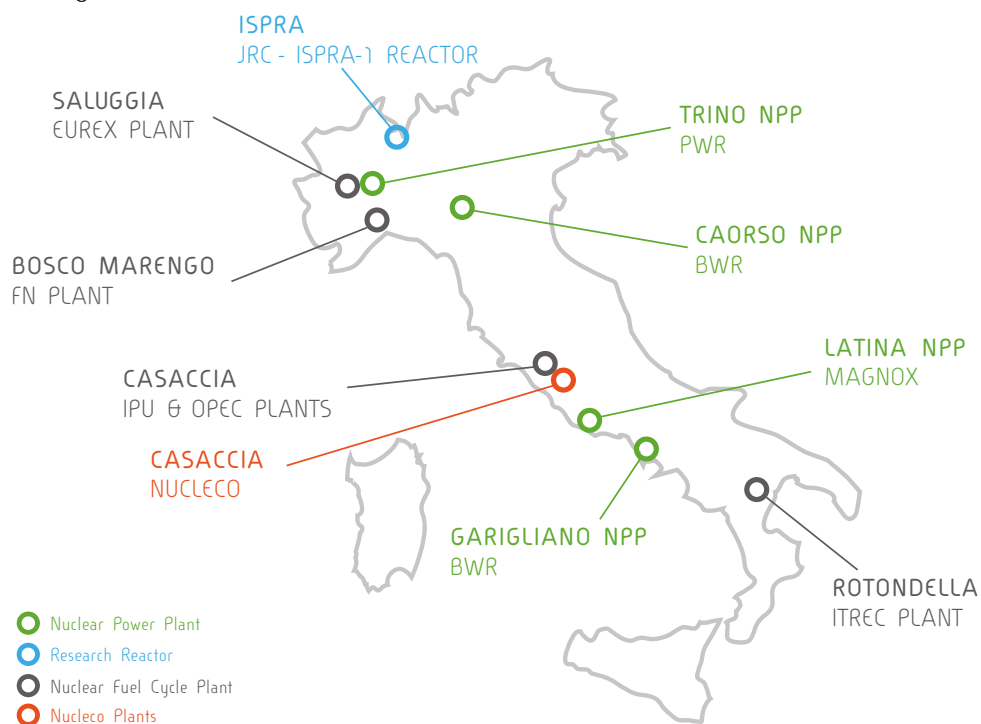
Sogin is the Italian State owned company responsible for the decommissioning of Italian nuclear plants and the management of radioactive waste. Sogin is also in charge of the siting, designing, building and operating of the National Repository, an environmental surface facility for the safe long term storage and disposal of all Italian radioactive waste.

On the same site of the National Repository, a Technology Park will be created: a research centre and a creative environment, open to international cooperation, where innovation in the fields of nuclear decommissioning, radioactive waste management and sustainable development will be generated.

Sogin is a company wholly owned by the Ministry of Economy and Finance and operates according to the Italian Government strategies.

In addition to the Trino, Caorso, Latina and Garigliano nuclear power plants, and also to the nuclear fuel manufacturing plant of Bosco Marengo, Sogin is in charge of the decommissioning of the ENEA nuclear fuel cycle research plants: EUREX in Saluggia, OPEC and IPU in Casaccia and ITREC in Rotondella. With the 2018 Budget Law, Sogin was entrusted with the decommissioning of the ISPRA-1 reactor, located in the complex of the Joint Research Centre (JRC) of the European Commission in Ispra (Varese).

The broad and successful know-how already part of its assets allows Sogin to operate abroad managing projects of nuclear decommissioning and waste management.







## SOGIN GROUP

Sogin, founded in 1999, became a Group in 2004 through the acquisition of the majority stake (60%) of Nucleco SpA, the national operator responsible for collecting, treating, conditioning and the temporary storage of radioactive waste and radioactive sources generated by medicine, industrial and scientific and technological research activities.



The over 1,000 employees of the Group are selected and trained with the aim of excellence. They include nuclear, civil, mechanical, chemical and environmental engineers, physicists, geologists, biologists and radiation protection and material science experts. They constitute the most highly skilled team of professional experts in the management of radioactive waste and the decommissioning of nuclear plants in Italy, able also to compete and win in the international market.

## GUARANTEES AND FINANCING

Safety is the foundation of all our activities.

We take great pride in the professional quality of our work and safety is our first priority. In addition, all of our activities are monitored and controlled by national, regional and local Institutions in accordance with Italian regulations, European Directives and the IAEA (International Atomic Energy Agency) standards and guidelines.

Our activities are guided by specific procedures, based on nuclear safety, radiation protection and environmental compatibility.

Activities in Italy are financed by a fee included in the electrical energy cost.



8

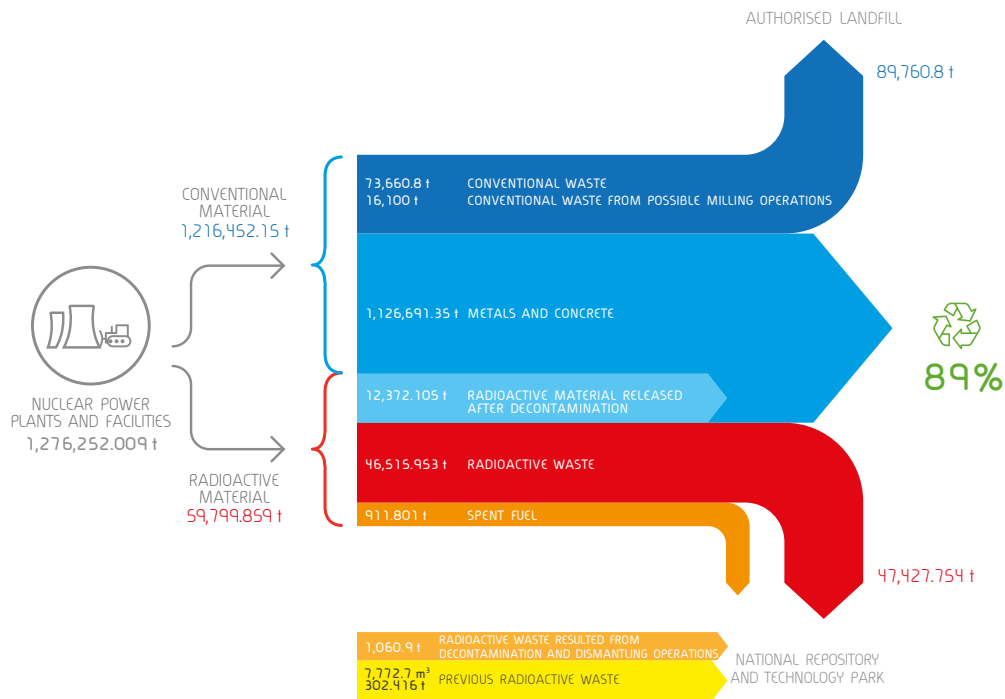


## CIRCULAR ECONOMY

In Sogin's mission, nuclear decommissioning and radioactive waste management, the concept of circular economy is inherent. In fact, it involves the progressive reduction of the environmental impact generated by the presence of nuclear sites.

In waste management, for example, Sogin adopts strategies to reduce its production through innovative technologies and processes and recovery of conventional or decontaminated materials, generated by the dismantling of the plants.

Even in the various phases of the procurement process, Sogin takes into account environmental and social criteria to identify goods and services that reduce the environmental impact and increase social benefits throughout the life cycle.



Nuclear sites in decommissioning – Destination of materials



10

## THE DECOMMISSIONING OF NUCLEAR PLANTS

Decommissioning is the final phase of a nuclear plant lifecycle.

This term includes the following operations:

- Care and maintenance of the plant;
- Removal of spent nuclear fuel;
- Decontamination and dismantling of nuclear facilities;
- Management and conditioning of radioactive waste, awaiting its transfer to the National Repository;
- Final radiological characterization\*.

When all the facilities of the plant are dismantled and all the radioactive waste is conditioned and stored in the temporary repositories, ready to be transferred to the National Repository, an intermediate phase called "brown field" is reached. After the gradual transfer of radioactive waste to the National Repository, the temporary repositories are also dismantled. At this point, the area, once the absence of radiological constraints has been verified, reaches the "green field" status, which enables the site to be returned to the community for reuse.

## SPENT NUCLEAR FUEL MANAGEMENT

Before starting the decommissioning it is necessary to remove the spent nuclear fuel from the plant and safely store or shipping it to reprocessing.

The reprocessing of the fuel allows the separation of valuable fissionable materials from the final waste. The high level radioactive residues, derived from the reprocessing, are then converted into a chemical and physical form, which ensures safe transport and confinement of waste over long time periods. Nearly all of the spent nuclear fuel, generated during the operation of the Italian nuclear power plants, has been already shipped abroad for its reprocessing.

## RADIOACTIVE WASTE MANAGEMENT

Sogin safely manages radioactive waste generated by nuclear plant decommissioning activities.

Waste is treated, conditioned and stored on-site in interim storage installations, pending its transfer to the National Repository. At the end of all decommissioning activities, these interim storage installations will be dismantled. Through Nucleco, Sogin collects and manages also radioactive waste generated daily by nuclear medicine, scientific research and industrial activities.

\* The final radiological characterization consists of several radiological measurements in order to verify that the residual radioactivity is equal to the natural background radiation.





AMSK 0023 95  
023 95

ogin  
asco Mareng  
AMSK002395  
5  
mento massimo  
0

AMSK 0100 95

produttore: Sogin  
di prod. Bosco Marengo  
AMSK010095  
1995  
mento massimo  
10  $\mu$ Sv/h

Al

I  
Luogo  
Numer  
Anno  
Livello  
a cont  
Massa

Prodotto  
Luogo  
Numer  
Anno  
Livello  
a cont  
Massa



## THE NATIONAL REPOSITORY AND TECHNOLOGY PARK

The National Repository is a surface environmental facility where radioactive waste can be safely disposed.

The Technology Park will be built alongside the National Repository. The collaboration with research centres, universities and industrial operations will allow the Technology Park to integrate with industrial operators and researchers and to actively contribute to sustainable development in the potential volunteer communities who may be interested in hosting the facility.

## THE DESIGN OF THE NATIONAL REPOSITORY

The Repository is equipped with engineered barriers and natural barriers arranged in series, designed on the basis of international best practice and according to the latest IAEA standards. It will permanently accommodate approximately 78,000 cubic metres of low and intermediate level short-lived waste, and temporarily store some 17,000 cubic metres of intermediate long-lived and high level waste.

The National Repository is expected to receive progressively an overall amount of about 95,000 cubic metres of radioactive waste, 60% of which deriving from nuclear plant decommissioning and the remaining 40% from scientific research, medical and industrial applications, including waste produced to date and that which is estimated to be generated over the next 50 years.

The transfer of radioactive waste to a national site will ensure safe, efficient and rational waste management, whilst enabling completion of nuclear plant decommissioning in compliance with European directives, as it will align Italy with countries that have had similar repositories in place for many years.

## THE SITING PROCESS FOR THE NATIONAL REPOSITORY AND THE TECHNOLOGY PARK

The Legislative Decree No. 31 of 2010 has introduced, in Italy for the first time, a process for active participation in the realization of a strategic infrastructure for the Country.

The siting process for the National Repository and Technology Park is based on three fundamental principles: transparency, information and participation.

On the basis of these principles, Sogin is developing channels through which the local communities can express their needs and proposals, as well as activities in order to promote expressions of interest from the Public Authorities of the areas identified in the CNAPI\* as potential locations of the National Repository.

\* The Legislative Decree No.31 of 2010 foresees that following the publication of the Siting Criteria by ISPRA (The Institute for Environmental Protection and Research), Sogin shall prepare a proposal for the National Map of Suitable Areas (CNAPI). After this preliminary step a period of Public consultation is foreseen to bring forward any spontaneous applications from suitable areas.







## RADWASTE MANAGEMENT SCHOOL

The Radwaste Management School (RMS) is the training centre of Sogin Group. It ensures high-level professional development and fosters management and technology innovation based on field experiences and nuclear safety expertise.



By means of technical know-how Sogin has become a key player in the national and international nuclear industry.

RMS has been operating since 2008, providing education and training to the staff of Sogin Group and external companies and institutions, in accordance with international safety standards and requirements established by the Italian Safety Authority. In this way, RMS guarantees the highest levels of safety in the field of decommissioning and radioactive waste management.

## SOGIN ABROAD

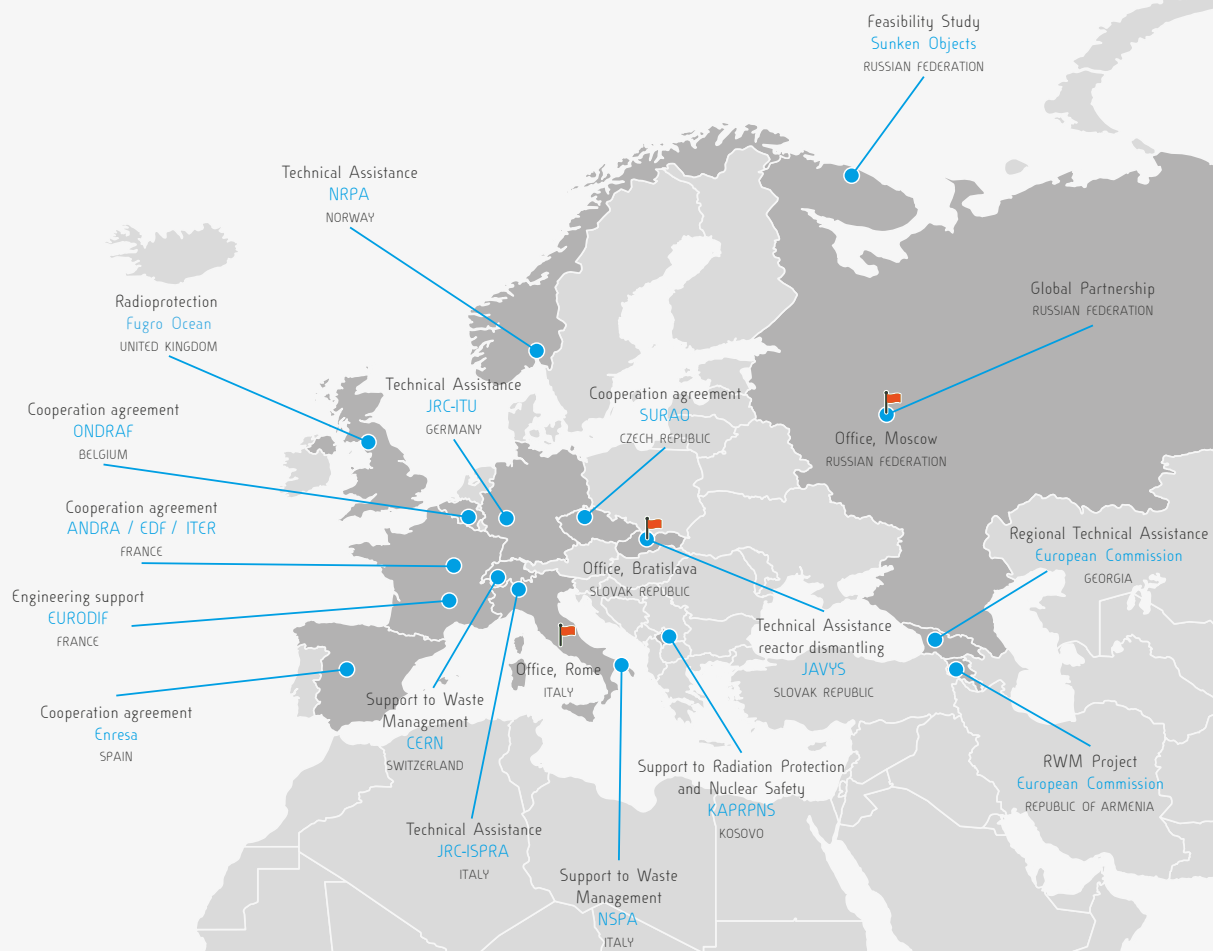
Within the scope of decommissioning, radioactive waste management and nuclear safety improvement programmes, the Sogin Group has always been committed at international level, with two foreign offices in Moscow and Bratislava, on three main lines:

- Development of relations and collaborations with international bodies and foreign operators, both public and private, to promote the exchange of know-how applicable to the decommissioning of Italian nuclear plants
- Business development with the acquisition of projects, studies, consultancy and technical services on the decommissioning of facilities, radioactive waste management, safety and radiation protection
- Support to Italian institutions to comply with international treaties and commitments

Since 2005, Sogin has been coordinating the activities provided for by the agreement stipulated between the Italian Government and the Russian Federation within the Global Partnership programme.

Since 2015, Sogin has been providing consultancy to the Slovak State Company JAVYS for the decommissioning of the V1 plant of the Bohunice nuclear power plant.







Cooperation agreement  
General Nuclear Power Group  
CHINA

Technical Assistance  
Nuclear Decommissioning Research Center  
Hanyang University  
SOUTH KOREA

Training & capacity building  
Doosan Heavy Industries  
SOUTH KOREA

Training & capacity building  
Nuclear Safety Authority  
CHINA

Training & capacity building  
TaiPower  
TAIWAN

Training & capacity building  
MOST/VINATOM  
VIETNAM





## OPEN GATE

Open Gate is the initiative of the Sogin Group, established in 2015, which opens the doors of the Italian nuclear plants under decommissioning to citizens, families, associations, journalists, schools and stakeholders. To know the decommissioning activities by entering a nuclear plant, accompanied by the technicians who work there every day and experience the unique experience of retracing a piece of industrial history of the country: this is the spirit of Open Gate.

More than 10,000 people have so far entered the heart of the plants, discovering the cutting-edge technologies and processes that are used for their dismantling. From a questionnaire that Sogin proposed to visitors of the 2017 edition, great satisfaction for the project emerged: 92% of the participants considered the visit to be up to expectations, 95% gave a positive opinion on the reception and 99% wished it would be replied.



**OPEN GATE**





20

## SUSTAINABILITY

Sogin is committed to create a "more sustainable society" in order to:

- guarantee public safety
- defend the environment
- protect future generations

Our commitment is stated in the Sustainability Report, which contains the main economic, industrial, social and environmental data and performance relating to decommissioning and radioactive waste safety enforcement.

The Sustainability Report is prepared according to the "in accordance-core" option of the Sustainability Reporting Standards of the Global Reporting Initiative, in accordance with the principles of inclusiveness, materiality and compliance issued by AccountAbility\*.

In order to govern company processes in a consistent and controlled manner, integrating aspects related to quality, environmental protection and health and safety in the workplace, Sogin has also developed an integrated management system, certified according to the UNI EN ISO 9001, UNI EN ISO 14001 and BS OHSAS 18001 international standards.

Sogin has obtained the EMAS (Eco-Management and Audit Scheme) registration certificate for the activities carried out in the Caorso and Trino power plants and for the Eurex plant in Saluggia. EMAS is a voluntary instrument proposed by the European Community with which companies and public bodies can evaluate and improve their environmental performance and provide the public and all interested parties with information regarding environmental management.

\*AccountAbility is an independent, multi-stakeholder, non-profit association that promotes and develops sustainability tools and strategies for individuals and organisations on an international level.





Editing by:

**External Relations - Sogin**

Last update:

**April 2020**

Sogin S.p.A. - Società Gestione Impianti Nucleari

Registered office: Via Marsala 51 C, 00185 Rome - Italy

Rome Registrar of Companies - Tax Code and VAT no. 05779721009

R.E.A. registration no. 922437

Sole Shareholder Company

Share capital of Euros 15,100,000 fully paid up

**Contacts:**

[info@sogin.it](mailto:info@sogin.it)

for tours: [opengate@sogin.it](mailto:opengate@sogin.it)



Follow us:

[sogin.it](http://sogin.it) - [nucleco.it](http://nucleco.it) - [depositonazionale.it](http://depositonazionale.it)





