

2021

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CNR, A UNIQUE COMPANY

The Compagnie Nationale du Rhône, now better known as CNR, was founded in 1933 and entrusted with the concession of the River Rhone in 1934.

A MODEL OF REDISTRIBUTION

CNR was born from a visionary idea: entrusting a single operator to perform three indissociable missions for the community in managing the Rhone:

- producing electricity,
- developing river transport,
- providing irrigation for agriculture.



This model is the only one of its kind. Energy production finances the development of the river, the harmonisation of uses and the preservation of ecosystems. Local authorities have a stake in the company's capital to its governance and value, and ensure that the energy returns to the territories. This industrial and redistributive model has given rise to a unique status in France: that of a joint stock company in the general interest.

A SENSE OF PURPOSE SINCE APRIL 2021

CNR defined its sense of purpose in 2021 following the passage of the PACTE law of 22 May 2019 on growth and the transformation of companies destined to rethink their place in society and assert their social and environmental roles.

Thus, CNR condenses in a few words that which underpins its singularity and wealth, and instils it with its collective dynamism.

**The Rhone as source,
The territories as partners,
Renewable energies for the future.**

CNR's model, which combines industry with the general interest, relies on its legitimacy as an actor in the world of energy, close ties with the territories and its capacity to redistribute the value generated. The concessionary of the River Rhone and the producer of 100% renewable electricity in France, from water, wind and sun, CNR is positioned as a major actor in territorial development, adaptation to climate change and ecological transition.

BALANCED GOVERNANCE

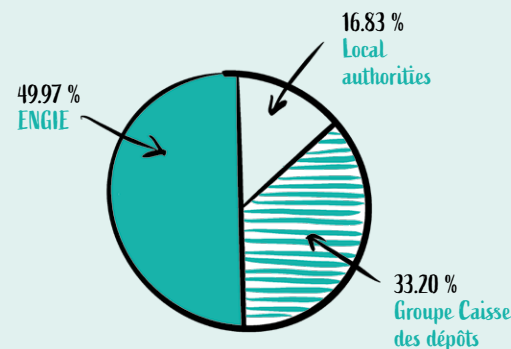
CNR is a joint stock company in the general interest managed by a Management Board and administered by a Supervisory Board. A mostly public owned company, with the Groupe Caisse de Dépôts and 183 local authorities, CNR's leading industrial shareholder is ENGIE.

Management Board

- Laurence Borie-Bancel:** Chairwoman
- Didier Lhuillier:** Managing Director
- Julien Français:** Managing Director



Distribution of capital



Supervisory Board

The Supervisory Board oversees the management of the company, audits the accounts and ensures the good management of CNR.

It is chaired by Serge Bergamelli and composed of 18 members:

- 13 shareholders' representatives,
- 2 government representatives,
- 3 employees' representatives.

Gathered together in the Supervisory Board, the energy group ENGIE and the Groupe Caisse des Dépôts provide their skills and specific knowhow alongside the local authority shareholders. A subtle balance between public and private interests, CNR cultivates a strong industrial identity and great attachment to the values of public service.

**HUMAN BEINGS
AT THE HEART OF THE COMPANY**

At CNR everyone counts as a person. Priority is given to the physical and mental health and safety of its employees, and to their professional fulfilment. CNR acts in favour of diversity, professional equality and well-being at work. Moreover, it endeavours to promote quality labour relations, business ethics and human rights.

Developing skills

CNR pursues a strong training policy to assist its employees in their career paths, encourages their employability and instils a culture of sustainable development. It ensures that they adapt their skills to medium and long-term changes in its trades and strengthens internal processes of passing on knowhow, apprenticeship and mentoring.

Diversity

CNR combats all forms of discrimination and guarantees equal occupational treatment by acting against sexism. It has pursued a policy of integrating disabled persons since 2005. In 2020, all its employees were made aware of the status of disabled workers. Also committed since 2011 in favour of young persons in marginalised situations, CNR signed 5 work-study contracts in the framework of "Form'Avenir" in 2020. 36 apprentices of the Form'Avenir programme have joined CNR as full-time time employees over the last 9 years.

1 week
of training a year
on average per employee



Teleworking

It became obligatory and used massively during the different lockdowns and the COVID-19 pandemic. Since the employees expressed their desire to continue teleworking, the management and unions negotiated an agreement signed by all the social partners on 20 July 2021 for a period of 4 years. Its organisation was accompanied with solutions to ensure the dynamism of the teams.



707
health-safety visits in 2020

94
work-study contracts
in 2020



**Multiplication
by 4**
of the installed capacity
of renewable energies

€500 M
of works associated
with the prolongation
of the concession

With its six strategic ambitions, CNR is reinventing its integrated model and is giving itself the resources to make it capable of adapting and proposing concrete solutions to environmental economic, societal and regulatory challenges. Thus, it will be a reactive company that anticipates and assists the future.

Its ten-year objectives will be re-assessed every year to ensure their consistency in an energy world undergoing constant change. While maintaining a long-term vision, it is necessary to remain flexible and reactive to possible hazards. CNR's strategy is adapted operationally in the form of two-year plans, intended to promote the emergence of immediate projects in partnership and which stimulate the economy and employment.

A STRATEGY FOR 2030 IN WHICH CSR FORMS THE BASE

In 2020, CNR set its ambitions for 2030. In line with national and European goals for ecological transition, closely linked to its corporate social responsibility (CSR), its ambitions set out in the strategic plan express its sense of purpose for the next ten years. This strategy, CNR2030, satisfies the company's objective of transformation and development in a radically changing world.

Combined with 6 additional ambitions, it must contribute to the green renewal of the economy and is a strong and sustainable commitment to our stakeholders.

6 STRATEGIC AMBITIONS AT THE HEART OF ENERGY AND ENVIRONMENTAL CHALLENGES

- Develop the Rhone and its multiple uses responsibly;
- Accelerate our renewable electricity production;
- Develop renewable electricity storage and flexibility;
- Increase the company's performance;
- Be the company of tomorrow's energies, innovative in all its trades, in the service of ecological transition;
- Assist the territories to face climatic and environmental challenges.



7,000 MW
installed capacity

+ 3,000 MW
developed outside the Rhone Valley including

+1,300 MW
solar and wind power

+ 1,000 MWp
solar power in the Rhone Valley

+ 200 MW
wind repowering

+ 500 MW
Hydroelectricity

5,000 MW
aggregated for third parties

A STRONG AND AMBITIOUS CSR POLICY

In the context of the climate crisis, declining biodiversity, environmental pollutions, the depletion of natural resources and the desire for peace and social justice, sustainable development is the only path capable of "satisfying the needs of present generations without compromising the capacity of future generations to satisfy their own".* By exercising its societal responsibility, CNR acts in favour of the community, in the service of the general interest. It participates in economically viable, socially fair and environmentally friendly development. Thus, it contributes to a new model of society. Its policy is organised in 4 directions and 19 commitments.



100% digital
training content
disseminated in-house in 2020

* Brundtland report commissioned by the UN in 1987.



90%
of CNR's purchases
are made in France
and 60% of them
in the regions
crossed by the
Rhone

14,500
direct and indirect
jobs generated
by CNR's activity

DIRECTION 1 Preserving the environment

- Acting for biodiversity
- Coping with the rarefaction of water resources
- Optimising the environmental performance of our industrial processes
- Reducing our carbon footprint
- Eco-managing our wastes



DIRECTION 2 Contributing to ecological transition

- Accelerating our renewable energy production
- Innovating to meet the challenges of ecological transition
- Promoting green energy consumption
- Encouraging alternative transport modes
- Communicating on the challenges of ecological transition

DIRECTION 3 Putting human beings at the heart of the company

- Maintaining priority given to occupational health and safety
- Strengthening the development of our employees' skills
- Acting for diversity, professional equality and the quality of life at work
- Supporting quality labour relations
- Upholding business ethics and human rights

DIRECTION 4 Assisting territorial development

- Building sustainable projects with our stakeholders
- Supporting changes in agricultural practises
- Favouring local employment
- Acting as a responsible purchaser



FRANCE'S LEADING PRODUCER OF 100% RENEWABLE ENERGY, WITH AN ENERGY MIX OF WATER, WIND AND SUN

The manager of three natural elements, water, wind and sun, that are as precious as they are vulnerable, CNR is France's leading producer of 100% renewable energy. An acknowledged actor in hydroelectricity, with 25% of French production, CNR operates 47 hydropower plants, 57 wind farms, and 49 solar power plants.

AN INTEGRATED PRODUCER

Its 85 years' experience on the Rhone make CNR an expert company present throughout the value chain: studies, designs, the operation of installations, sales and the development of assets. This integrated industrial model gives it all the skills needed to ensure its performance and developments.

DEVELOPING EVERYWHERE IN FRANCE

To satisfy the challenges of French and European policies aimed at combating climate change, CNR and its subsidiary Vensolair are pursuing their developments in and outside the Rhone Valley with the objective of reaching "zero greenhouse gas emissions". In 2020, CNR commissioned more than 77 additional MW in wind and solar power, to which a small hydropower plant of 1.5 MW in the Maurienne valley must be added. In the next decade, CNR aims to develop another 3,000 MW, i.e., the equivalent of the installed capacity on the Rhone in 40 years, and reach parity between its hydropower assets and those of its new renewable energies.

ENVIRONMENTAL AND SOCIETAL AWARENESS

By applying the principle "avoid, reduce, compensate", CNR integrates environmental challenges in its hydropower, wind power and solar power projects. It implements a series of measures to limit the impact of its new installations on all the elements of the environment: the population and human health, biodiversity, land, soil, water, air, climate, material goods, cultural heritage and the landscape. In addition to impact studies and regulatory monitoring, it carries out observations of biodiversity adapted to the challenges of each site, and it reconstitutes habitats favourable for amphibians, reptiles, birds, bats and insects. CNR closely associates the territories in building new green electricity production installations, through crowdfunding. Since 2017, it has already made nine offers to the public and local authorities to invest in its projects, an approach encouraged in the calls for tenders of the CRE by a bonus on the guaranteed purchase price of the electricity generated.

AN ACKNOWLEDGED AGGREGATOR

CNR has unique expertise in managing intermittent energies that allows it to make tailor-made offers to other producers. It managed 1,000 MW of installed capacity in 2021.

15.4 TWh
produced in 2020

25%
of French
hydroelectricity
comes from the
Rhone



▲ Bollène development scheme

GUARANTEEING THE SAFETY OF HYDRAULIC STRUCTURES

CNR generates most of its income from operating hydropower plants on the Rhone. A responsible industrial company, it constantly seeks to improve its yields and lower its costs, while conforming to the imperatives of hydraulic safety and navigation. The probable lowering and greater variability of the Rhone's discharges caused by climate change makes this challenge more acute. The aim is to optimise every cubic meter of water flowing in the river, as well as the costs of monitoring and maintaining the installations. To increase its performance, CNR has strengthened its capacities of anticipation, improved its reactivity to natural hazards and targeted its actions with greater precision. It relies on a quality management system for which it is certified ISO 9001.

MONITORING THE RIVER AND THE STRUCTURES

CNR pursues a dual approach to monitoring its installations – dams, dikes, locks, hydropower plants, channels, etc. – and the riverbed to predict any hydrological event liable to impact safety and maintaining the flow of the river, whatever the discharge. Technical teams observe the river and the installations throughout the year to check water heights and detect possible traces of sediment deposits and erosion. CNR also has a network of 220 measurement stations that automatically transmit data on levels, discharges, rainfall, etc. A fleet of bathymetric boats regularly monitor changes of the riverbed. They include the hydrographic survey boat, the Frédéric Mistral, a concentration of leading-edge technology that performs measurement campaigns with 2 multibeam probes.

▼ The lock of Baix-Le-Logis Neuf



CNR regularly acts preventively by carrying out dredging operations and controlling vegetation to guarantee unhindered flows in the case of flooding. Such operations cost an average of €10 M a year. To this must be added the cost of maintaining the structures that calls on the expertise of CNR's multidisciplinary teams to guarantee the safety and continuity of navigation and optimise production.

1,000 employees

work on the Rhone to produce energy and maintain the installations



◀ Maintenance while navigation is stopped.



▲ Renovation of the downstream gate of turbine unit 6 of the Caderousse plant.

◀ The hydrographic vessel, the Frédéric Mistral.

€80 M

invested every year to maintain the industrial installations

THE COMPANY OF TOMORROW'S ENERGIES AND INNOVATION



At CNR, innovation occurs every day to optimise its performances, explore the still unexploited potentials of water, the wind and the sun, and assist agriculture.

INNOVATIVE SOLAR POWER

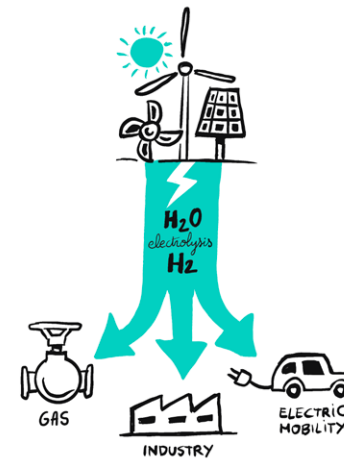
With the construction of its first floating solar power plant on Lake La Madone at Mornant (Rhône), CNR is experimenting with this technology with potential for development in France, in particular in former quarries filled with water. CNR has already secured the land of several sites to install industrial scale plants.

With the CEA, it is also experimenting with a vertical and bifacial solar power plant of 100 kWp and 350 m long on the dike of Sablons (Isère), open to the public. Two other linear solar power projects are being studied for installations of 1.8 km and 20 km, respectively, in order to overcome the barriers to energy transmission.



European projects

CNR is involved in 2 partnerships (Seren-di PV and Alpgriids) aimed at accelerating ecological transition through the replication of these projects in the rest of the Europe.



RENEWABLE HYDROGEN

CNR has been involved in the renewable hydrogen sector since 2014. It is a partner in two projects:

- **Jupiter 1000**, a demonstrator that converts part of the electricity generated by CNR's wind farm at Fos-sur-Mer into renewable hydrogen that is then injected into the gas transport network to supply the industrial companies on the site.



- **The Quai des Energies** on the Port de Lyon site, which combines the production and distribution of hydrogen, and the distribution of green electricity and biogas for vehicles.

From now to 2030, CNR targets the installation of renewable hydrogen production plants capable of supplying 10 tonnes a day next to its renewable production facilities along the Rhone and linked to the needs of the territories. 2 OH₂ projects, Port de Lyon OH₂ and Pierre Bénite OH₂ are already being studied.



INNOVATIVE AGRICULTURAL TECHNIQUES

CNR seeks to develop synergies between renewable energies and agriculture. By investing in agrovoltaic experiments at the horticultural school of Dardilly, its first objective is to provide added value to the agricultural sector and reduce hydric stress to plants. With SUEZ and the SMHAR, CNR is testing a "smart" irrigation network to reduce water consumption and the cost of conveying it. CNR is also continuing to encourage agro-ecological practices that enrich soil and biodiversity. It supports the AOT (alternative-organic techniques) site at Etoile-sur-Rhône (Drome) to carry out an agroforestry and biodiversity programme in the service of agriculture.

6,000 m²

dedicated to agrivoltaic experiments at the horticultural school of Dardilly (Rhône)

20 ha

dedicated to alternative and organic techniques at Etoile-sur-Rhône



A MAJOR ACTOR IN THE DEVELOPMENT OF RIVER TRANSPORT

One of CNR's historical missions is to develop river transport. It carries out numerous actions to promote the growth of traffic and improve the quality of service to skippers, all in the service of territorial industrial development.



1 push-tow convoy of two barges (4,400 t) avoids 220 trucks on the road

A LARGE NETWORK OF MULTIMODAL SITES

CNR carries out two major activities. On the one hand it operates ports, with the construction, management and promotion of port infrastructures on the Rhone: 17 sites directly linked to the river every 20 kilometres from Lyon to the Mediterranean, of which Port de Lyon is the bridgehead. On the other hand, it promotes the economic activity of the territories through development, and it rents plots of land and warehouses for industry and logistics. In all, 920 ha of land accommodates 172 companies operating in the sectors of logistics and industry (construction, recycling, etc.) that generate nearly 5,200 jobs.

A SUSTAINABLE ALTERNATIVE TO ROAD TRANSPORT, IN SYNERGY WITH RAIL

Safe, much cleaner and economic, river transport on the Rhone contributes to reducing the number of heavy goods vehicles on the north/south road corridor. The industrial and port sites place their multimodal capacities to the forefront - waterway, rail, river-maritime, road, and a pipeline linked to Port de Lyon - and provide direct access to the south and the Mediterranean, via the ports of Fos-Marseille and Sète, and the north with the wide gauge waterway of the Saone. Furthermore, rail links to the north make this network a strategic corridor between Northern and Southern Europe.



17 industrial and port sites



2 container terminals equipped with efficient facilities at Port de Lyon



12 M tonnes of goods handled every year

REMOTE NAVIGATION MANAGEMENT

Since 2012, 24/7, CNR has remotely controlled the 14 wide-gauge locks from Lyon to the Mediterranean from its Navigation Management Centre installed at Chateauneuf-du-Rhône (Drome). This system, the only one of its kind in France, satisfies three vital needs: it guarantees maximum safety on the river through closer monitoring of installations (video, VHF, telephone), it improves the information provided to users on traffic as it is updated in real-time, and it optimises lock passage time.

PORT DE LYON AT THE SERVICE OF ITS TERRITORY

Open to the Mediterranean Sea and the rest of the world, and linked to Fos-sur-Mer by pipeline, Port de Lyon is connected to the rail network and major European highways. It captures 90% of the container traffic on the Rhone and is the home of 40 companies and 4,400 jobs including 900 direct jobs on a site covering 184 hectares. It serves as a hub for manufactured goods, bulk products and oil products. There is potential for the development of urban services, initiated by a roaming waste collection barge, with the removal via the river of the residues of the household waste incinerator installed on the port, and the construction of an urban logistics centre.



▲ The container and heavy cargo terminal at port de Lyon with its 2 travelling cranes.

ALONGSIDE THE TERRITORIES

TO ACCELERATE THEIR ECOLOGICAL TRANSITION

In the framework of its Mission in the General Interest, CNR continues the implementation of its 4th plan (2019-2023). In perfect harmony with CNR's strategic vision for 2030 and its CSR policy, this plan concretises the redistribution to the territories of the income generated from harnessing the River Rhone. It assists a large number of projects in favour of ecological transition. CNR will pursue its policy and launch its 5Rhône plans when its concession is prolonged to 2041.



5 AREAS OF ACTION

Energy

In line with its goal of diversifying its energy mix, CNR is increasing its hydroelectricity production capacities by continuing the construction of Small Hydropower Plants (SHPP) intended to harness the energy of the bypassed sections of the Rhone. The project now in progress, the SHPP of Vallabrègues.

River transport

In the context of ecological transition, CNR is contributing to the development of river transport, a sustainable alternative to road transport, with the development of its industrial and port sites of Loire-sur-Rhône and Arles, by upgrading the public wharfs and providing financial incentives for modal transfer to the waterway.



Water resources and biodiversity

Confronted by the outlook of scarcer water resources and the erosion of biodiversity, CNR is pursuing the restoration of the bypassed sections of the Rhone. 7 sites are programmed, including Pierre-Bénite and Baix-Le-Logis Neuf where works have already started. The construction of 10 fish passes is programmed over the next 5 years.



Economic and tourism development



Afin de développer l'écotourisme en pays rhodanien, To develop ecotourism in the Rhone Valley, CNR is providing 20% of the funding of the Via-Rhône cycle track that links Lake Geneva to the Mediterranean and is part of the European network of green corridors. CNR has also contributed to the construction of the footbridge of Virgigny-La-Balme, inaugurated in 2021. What is more, it supports sports and cultural activities linked to the river.

Agriculture

CNR is assisting the agricultural sector to adapt to climate change by participating in "smart" irrigation systems to reduce water consumption. It also encourages agroecological techniques in particular, by supporting the TAB (Alternative and Organic Techniques) site of Etoile-sur-Drôme (Drôme).



PARTNER WITH THE TERRITORIES

CNR is participating in drawing up the new Inter-regional Plan Contract of the Rhône-Saône Plan 2021-2027, focused on a new goal: the ecological and climatic transition of activities and the territories.

70%

of water in France is consumed by agriculture

817 km

the length of the ViaRhône which links Lake Geneva to the Mediterranean



Dynamising the life of the river

To increase the attractiveness of Valence's economic and tourism activities, CNR has built a landing stage so that river cruisers can stop off for excursions. It also supports the Valence-Romans Agglo project to build a nautical sports and nature leisure centre at the marina of Epervière just south of Valence.



Combating plastic pollution

Since 2019, CNR has supported the Tara Océan Foundation which is carrying out scientific studies on pollution by microplastics in 10 major European rivers including the Rhone. In 2021, it is participating in the Plastic-Rhone project to establish an inventory of plastic pollution in the river from its source to its mouth.





AN ENERGY PRODUCER WORKING FOR BIODIVERSITY

The Rhone is not only a waterway, it interacts with all the surrounding ecosystems that renew and maintain life. CNR works to preserve these natural habitats so essential for our lives.

ENVIRONMENTAL MANAGEMENT PLAN

To combine the preservation of biodiversity with hydraulic security, the safety of the surrounding populations, electricity production and economic development, in 2016 CNR established a plan for managing its estate of which 92% is in preserved areas. It has practiced sustainable maintenance on the estate according to the principle of zero phytosanitary products since 2007, and combats exotic invasive species using the organic devitalisation process developed by ARBEAUSOLutions.

REWILDING THE OLD RHONE

Since 1999, CNR has restored the hydraulic and ecological equilibrium of the Rhone along almost a quarter of its length. It pursues its actions to make room for the river, reactivate its sediment dynamics, and favour the life of natural habitats and the fauna and flora. Works on the 7 sections of the Old Rhone, begun in 2020, are focused on the areas of Pierre-Bénite (Rhone) and Baix-Le-Logis Neuf (Drome). When rewilding the river's banks, CNR plants trees typical of alluvial forests (willows, poplars, tamarisk, etc.) taken from its nursery at Soyons (Ardeche) as part of its local plant approach.



€75 M
invested since
2004 in favour of
the environment

BLUE CORRIDOR

Allowing migrating fish to swim up and downstream the Rhone between its confluences with the rivers Drome and the Eyrieux on the one hand, and the Mediterranean Sea on the other, is a cornerstone of CNR's environmental strategy. Improving knowledge of the different species, the construction of fish passes and specific lock operations are some of the actions it carries out to restore the blue corridor. CNR plans to upgrade or build 15 fish passes on the Rhone and its tributaries in 5 years.

PRESERVING FLYING FAUNA

When developing its wind farms, CNR pays particular attention to birds and bats. It even abandoned a viable project due to the presence of a couple of royal eagles in the vicinity. Some wind farms are equipped with innovative systems in order to regulate production in real time to preserve birds during migrations. Buzzards are also monitored by drone to improve knowledge about them.

* National Institute of Research on Agriculture, Food and the Environment.



▲ In partnership with the INRAE*, CNR studies the downstream migration of the European eel in the Lower Rhone.



▲ The tree nursery of Soyons (Drome)

+ 120 km
of river rewilded
in 20 years

69 fish
passes
on the Rhone and
its tributaries

+ 80 animal
species
benefit from CNR's
actions to preserve
their habitats

EXPORTING OUR KNOWHOW IN FRANCE AND ABROAD

A major actor in territorial development, CNR has its own engineering office and team of consultants. Specialised in hydroelectric and river engineering, CNR Engineering shares with its external clients its knowhow gained from 85 years of designing, building and operating multi-purpose development schemes on the Rhone. Its strength lies in the synergy that exists between the specialities of its engineers and the support of the Centre for the Behavioural Analysis of Hydraulic Structures (CACOH).

CACOH, AN INTEGRATED HYDRAULICS LABORATORY

The Centre for the Behavioural Analysis of Hydraulic Structures (CACOH) is capable of reproducing scale models of flows, changes in riverbed morphology, the behaviour of structures, etc., as well as coupling physical models with numerical ones. Alone, it covers more than 25% of CNR's R&D activities. An irreplaceable centre of expertise and advice, the CACOH ensures that CNR reaches the highest levels of security and safety.



References
from more than 40 countries



85 years
of expertise in
design and operating
structures

KEY ACHIEVEMENTS IN 2020

River engineering in Vietnam

In partnership with EGIS and the Vietnamese engineering office VIPO, CNR won a contract in Vietnam to supervise works to improve navigation in the delta of the Red River. It includes the construction of a canal to connect two branches of the river equipped with a wide-gauge lock and a road bridge.

Measurements in Laos

In the framework of a service contract signed in 2018, XPCL (Xayaburi Power Company Limited) called on CNR to improve its knowledge of suspended sediment concentrations entering and exiting the Xayaburi development scheme on the Mekong. CNR proposed a methodology for measuring sediments based on the CACOH Boards technology developed by CNR's laboratory.

Training on the Island of Reunion

At the request of the Department of the Environment, Development and Housing (DEAL), CNR coordinated training so that its personnel could better understand the specific characteristics of the island's torrential rivers, in particular erosion phenomena, sediment transport, and related hazards, as well as the implementation of analytical and hydraulic modelling tools.

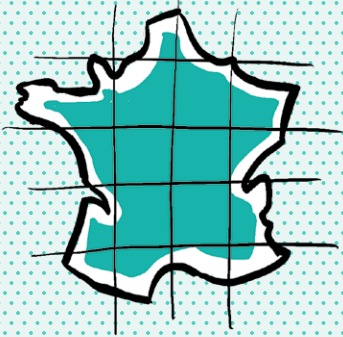
Remote control in France



The Territorial Management of VNF Nord-Pas-de-Calais, chose to switch the operation of the 16 locks installed on the wide-gauge Dunkirk-Escaut link (240 km) to remote control. Following preliminary studies to diagnose the structures, CNR used its experience as developer and operator of the Rhone Navigation Management Centre (CGN) to propose robust and maintainable remote-control systems.



KEY FIGURES FOR 2020



TERRITORIES

27,000 ha under concession

14,000 of river

13,000 ha of land (including enterprise zones: 800 ha)

14,500 direct and indirect jobs generated by CNR's activity

Assistance to the territories
(missions in the general interest):

€23.9 M in 2020

89.9% of CNR's purchases are made in France of which 59.15% in the Rhone Valley

500 km of the ViaRhona cycle track jointly financed by CNR



ASSETS OF ECOLOGICAL TRANSITION

ASSETS on 15/12/2021

20 hydropower plants including Chancy Pougny

8 small and mini hydropower plants (SHPP and MHPP) on the Rhone

11 MHPP outside the Rhone

8 compensation water turbines

57 land-based wind farms

49 solar power plants

Total installed capacity
on 15/12/2021, **3,980 MW** including:

3,104 MW hydropower

720 MW wind power

156 MWp solar power

Total green electricity production
15.37 TWh (figure 2020), including:

13.6 TWh hydropower (Rhone and outside Rhone)

1.5 TWh wind power

0.13 TWh solar power



FINANCIAL

€1,305 M gross turnover

€138 M hydraulic fees



ENVIRONMENT

€75 M invested since 2004 in favour of the environment

+ 120 km of river restored in 20 years

69 fish passes on the Rhone and its tributaries

+ 80 animal species benefit from CNR's actions and the preservation of their habitats

120,000 m² of reed beds rewilded in 8,872 hectares of wetlands.



SOCIAL

1,382 permanent employees

94 work-based training contracts, i.e., 7% of the total workforce



RIVER

330 km of wide-gauge navigable waterways

3,690 million tonnes transported

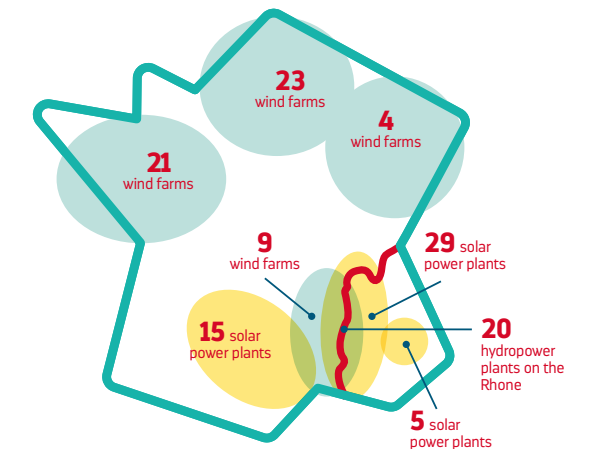
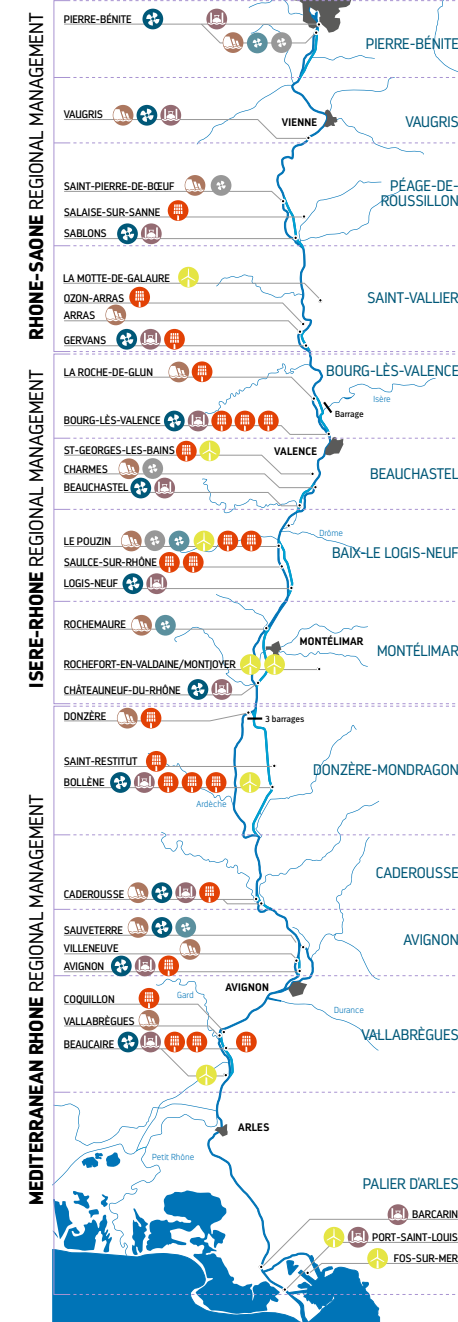
65,516 TEU containers (Twenty Foot Equivalent Unit)

17 industrial and port sites



CNR's renewable energies

ON THE RHONE



- 14 wide gauge locks
- 5 locks for pleasure craft
- 19 dams
- 20 hydropower plants
- 17 small and mini- hydropower plants (SHPP-MHPP) (including 9 outside the Rhone Valley)
- 8 compensation water turbines
- 57 wind farms (including 46 outside the Rhone Valley)
- 49 solar power plants including 13 installations on roofs
- equipped canals

OUTSIDE FRANCE

- 2 small hydropower plants at Dardha (Albania)

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DIRECTIONS TERRITORIALES

Haut-Rhône

Chemin des soupirs
01300 Belley

Rhône-Saône

ZA de Verenay
BP 77 Ampuis
69420 Condrieu

Rhône-Isère

91 Route de La Roche de Glun
26500 Bourg-lès-Valence

Rhône-Méditerranée

25 Chemin des rocailles
BP194
30400 Villeneuve-lès-Avignon

cnr.tm.fr

