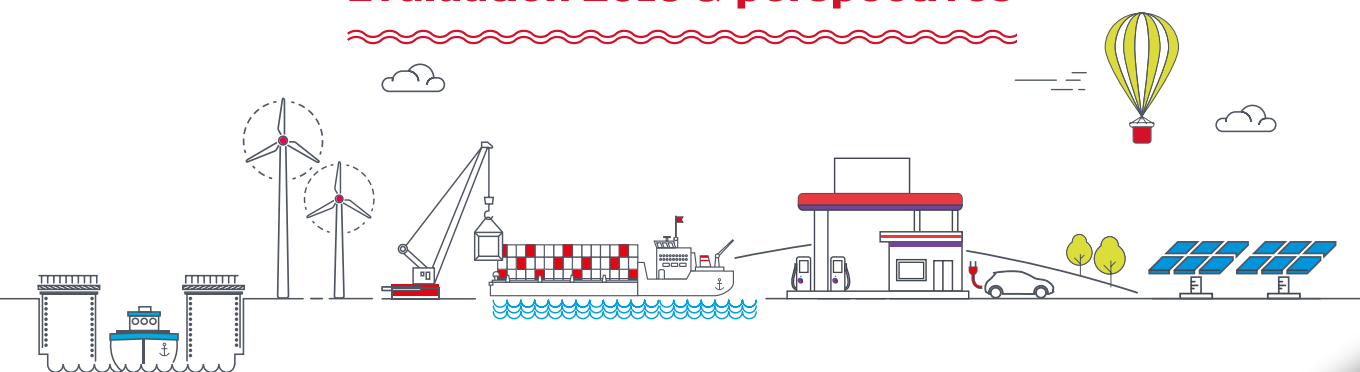


OUR 9 COMMITMENTS ~~~~~ IN FAVOUR OF ~~~~~ ENERGY TRANSITION ~~~~~ AND THE ~~~~~ CLIMATE

~~~~~  
Evaluation 2016 & perspectives  
~~~~~



CNR

CNR, FRANCE'S LEADING PRODUCER OF 100% RENEWABLE ENERGY

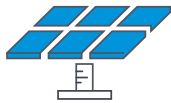
KEY FIGURES

100% RENEWABLE PRODUCTION ASSETS

19
hydropower
plants
21 small and mini-hydropower plants



17
solar power
plants



37
wind farms



3,552 MW
of installed capacity



an average annual
production of
14 TWh
representing the electricity consumption of
more than 5 million people (excluding heating)

OTHER ASSETS

19
dams

14
wide gauge
locks

8
enterprise
parks

18
industrial and port
sites including
Port de Lyon

5
locks for
pleasure
craft

32
pumping stations
for irrigating the
concession

27,000 ha
surface area under concession
(14,000 ha of river, 13,000 ha of land
including 836 farmed out)

REDISTRIBUTION

€30 M
per year to assist
the territories by virtue
of the missions in the
general interest



14,500
direct and indirect jobs
generated in the Rhône
Valley



A MODEL AND EXPERTISE IN THE SERVICE OF ENERGY TRANSITION

On the occasion of the year of the COP21 in France, CNR made 9 commitments to further increase the impact of France as a major ecological power, in line with the objectives of the Law on Energy Transition and Green Growth and the route map drawn up by the countries of the world to combat climate change.



These 9 commitments mirror CNR's identity and its ambitions: it is a partner of France and the European Union in making energy transition a reality, in collaboration with the territories.

Ever since it was founded 80 years ago, CNR has taken a long-term view and been endowed with a single business model that combines public and private interests, economic efficiency and the general interest. This balanced model places it in a strategic position to participate in taking up the major environmental challenges in association with the territories, while continuing its missions for their development, and for sustainable transport and agriculture.

An expert in green energies and a partner with the territories, CNR is a legitimate and responsible actor in the combat against climate change. These 9 commitments match its corporate strategy, by expressing its ambitions for development and its positioning as a laboratory of tomorrow's energies in the service of the territories. Exploring other types of natural, renewable and carbon-free energies; making the territories autonomous with a mix of 100% renewable and local electricity; adopting good practices for consuming differently, and more. CNR innovates to invent this new world and create industrial and agricultural opportunities, new sectors and jobs.

A 100 % RESPONSIBLE AND COMMUNITY CONSCIOUS MODEL

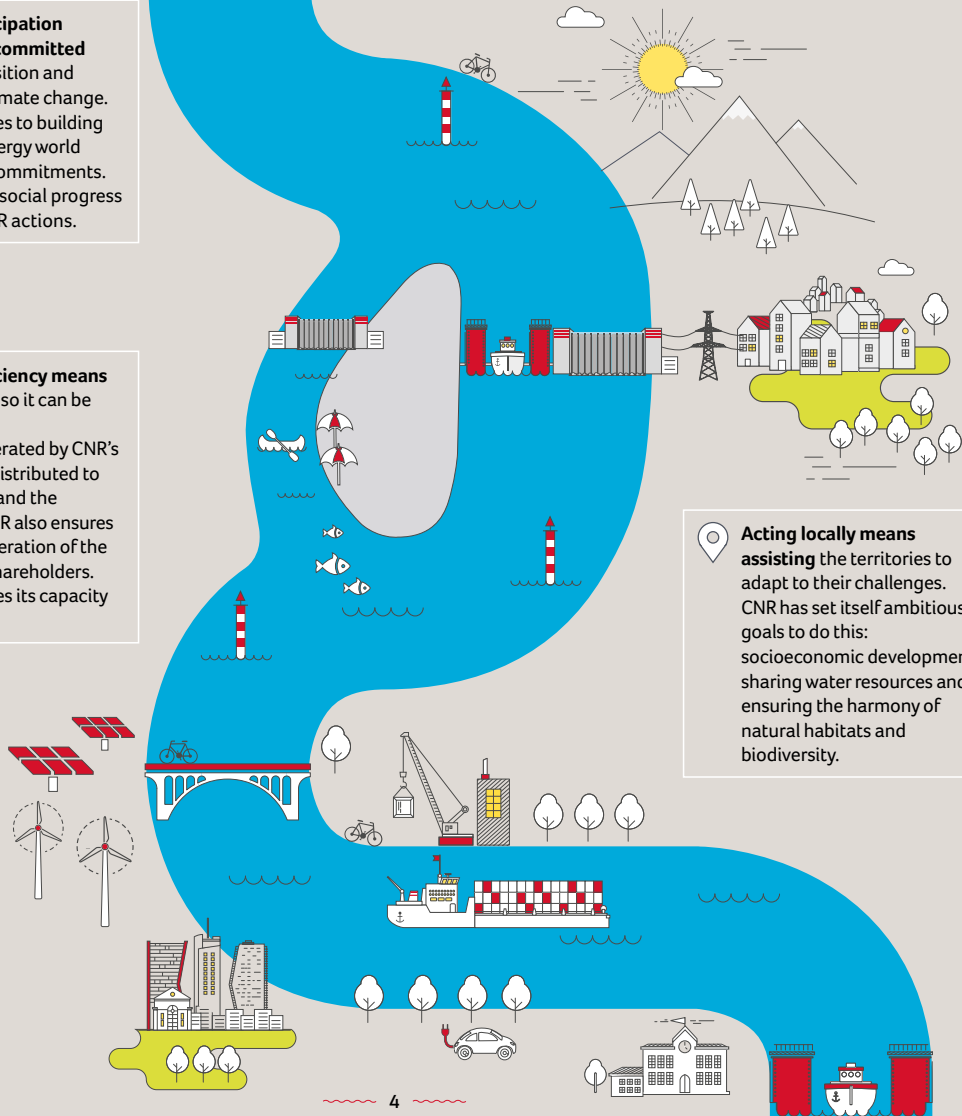
In the wake of its 9 commitments for energy transition, CNR implements an approach of corporate social and environmental responsibility (CSR) which stimulates it to progress in its global performance. CSR is the basis of CNR's industrial model in favour of the general interest according to which all the activities that generate value must act in favour of socially fair, economically viable and ecologically friendly development which, by consequence, must be sustainable. It is a natural commitment for the territories and the men and women who live in them.

Societal participation means being committed to energy transition and combatting climate change. CNR contributes to building tomorrow's energy world through its 9 commitments. And it favours social progress through its CSR actions.

Economic efficiency means creating value so it can be shared better. The value generated by CNR's activities is redistributed to the territories and the employees. CNR also ensures the just remuneration of the State and its shareholders. Lastly, it ensures its capacity to invest.

Industrial excellence means combining knowhow with innovation. A company-laboratory of tomorrow's energies, CNR maintains the efficiency of its production facilities, while ensuring the safety of people and property. CNR also participate in maintaining the balance of the national and European electricity grids.

Acting locally means assisting the territories to adapt to their challenges. CNR has set itself ambitious goals to do this: socioeconomic development, sharing water resources and ensuring the harmony of natural habitats and biodiversity.



THE 9 COMMITMENTS IN PRACTICE

Some of the commitments adopted by CNR in June 2015 encourage it to go further in the directions already followed, while others point towards exploring new topics. They all display its desire to play a role in energy transition. They respond to 3 ambitions:

SHARE REFLECTIONS AND ACTIONS

Whether it's to favour renewable energies, promote the circular economy or fight against waste, the Law on Energy Transition and Green Growth wagers on the involvement of the community, action by local authorities and the responsibility of companies. Hence CNR is committed to developing teaching initiatives, setting up procedures for the participatory funding of certain projects, improving procedures for local consultation, and being exemplary in terms of responsible conduct.

CONTRIBUTE TO A NEW ENERGY WORLD

Building a new, more energy thrifty society that cares more for the world entails combining action by the community, companies, territorial authorities and governments, to ensure the effective identification and implementation of tomorrow's solutions. CNR is fully involved in this movement, by deploying an approach for continuous improvement, increasing its production capacity and disseminating its model to the territories.

MEETING THE CHALLENGE OF CLIMATE CHANGE

The goal of the global agreement signed in Paris in December 2015 is to stem climate change, by attempting to keep the increase of global temperature well below a threshold of 2°C. This entails reducing greenhouse gas emissions and changing certain human activities. Faithful to its fundamental values, CNR is committed to participating in accelerating the use of clean transport and assisting agriculture to improve its production methods and make it more thrifty with water and energy.



CNR, a partner of the World Summit on Climate and Territories, an event scheduled prior to the COP21, made these 9 commitments to assist national and European efforts. For CNR, the COP22 provides the opportunity to take stock, deepen reflection and consider new concrete means for implementing them.

➤ SO HOW FAR HAVE THE 9 COMMITMENTS GONE A YEAR AFTER THE COP21?

> SHARE REFLECTIONS AND ACTIONS

No.1

PARTICIPATE
IN EDUCATING
TOMORROW'S
"CONSUM'ACTORS"

No.2

ASSOCIATE
THE COMMUNITY AND
LOCAL AUTHORITIES
WITH SOME OF OUR
REN PROJECTS

⬆ To the river, citizens!

The collaboration started with the Ligue de l'Enseignement and Unis-Cité Auvergne-Rhône-Alpes, an association dedicated to civic service, and led to the creation of a teaching kit called "The River in Full Scale" that focuses on the challenges facing the River Rhone. This partnership brought together different sections of the public: primary schools, young people and the general public. 950 children have already attended awareness sessions in 2016 in the departments of Drôme and Ardèche. 50 teaching kits will be distributed all along the Rhone Valley in 2017. This project benefited from funding from the Rhone Plan.

950 children were made aware of the importance of preserving water.

And also scheduled:

Develop sponsoring and tutoring competences so that CNR's employees in Lyon can share their specific knowhow with young persons and help them to find jobs (with the associations FACE, Nos quartiers ont du talent and the foundation Emergence).

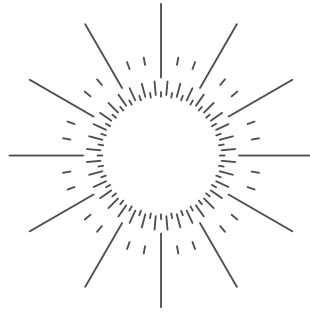
⬆ Open out to crowdfunding

In order to make renewable energies a local and decentralised source of production, CNR wants to associate its stakeholders with their development. Since the 2nd semester 2015, it has systematically offered territorial authorities the possibility of buying stakes in its future solar power plants and wind farms. This type of partnership has already begun with 2 wind farm projects in the department of Ain.

2 wind farm projects developed jointly with local authorities

And also scheduled:

Open certain solar power projects to community funding in 2017, via a crowdfunding platform (e.g., Saint-Georges-les-Bains in Ardèche).

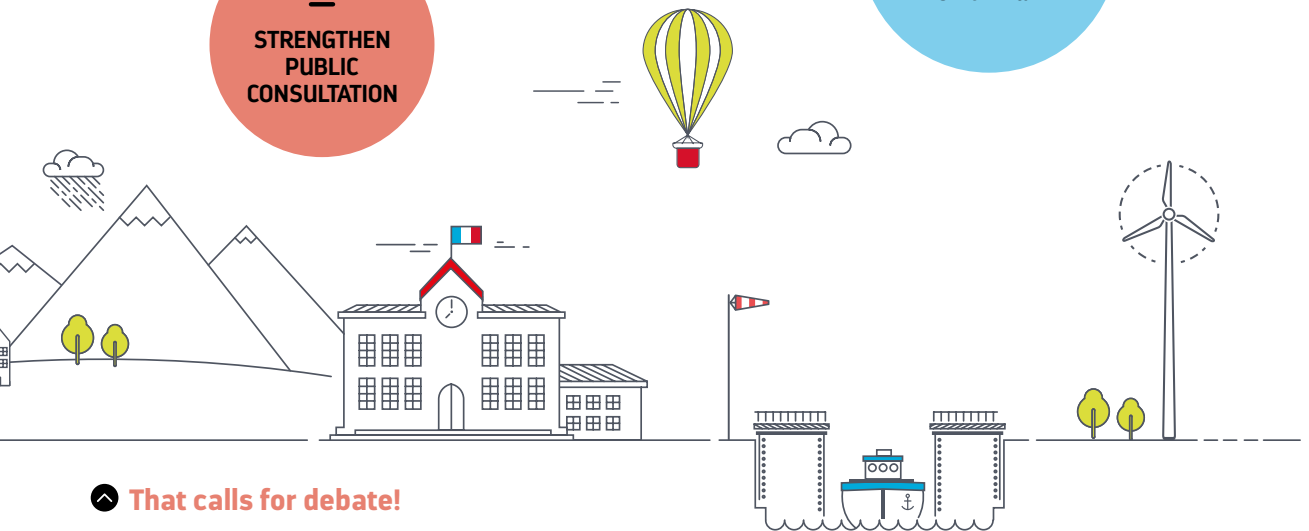


No.3

**STRENGTHEN
PUBLIC
CONSULTATION**

No.4

**STRENGTHEN
OUR CSR
STRATEGY**



⬆ That calls for debate!

In addition to communication linked to public inquiries, CNR has developed communication regarding its wind farms aimed at the stakeholders: a newsletter delivered in letter boxes and the creation of a blog, provided time for dialogue and consultation with network heads (elected representatives, associations, government services) and a consultation service open to the neighbouring population. The system is already in operation in Calvados and the Beaujolais region.



1 blog developed for the wind farm project of Champ-Bayon (Rhône)

And also scheduled:

This principle of consultation will be extended to all our wind farm projects in France.

⬆ A major agreement

Following its adhesion in October 2015 to the UN Global Compact, which completes its other certifications and labels, in December 2015 CNR signed a Corporate Social Responsibility (CSR) agreement that sets out a large number of innovative actions, both within the company and with our stakeholders. The first actions included the development of a fleet of electric vehicles which now makes up 16% of the entire fleet, instead of 9% at the end of 2015; setting up an organic and local food market at head office for the employees and inhabitants of the district; the introduction of a company mediation unit; and the participation of subcontractors in the health-safety approach.

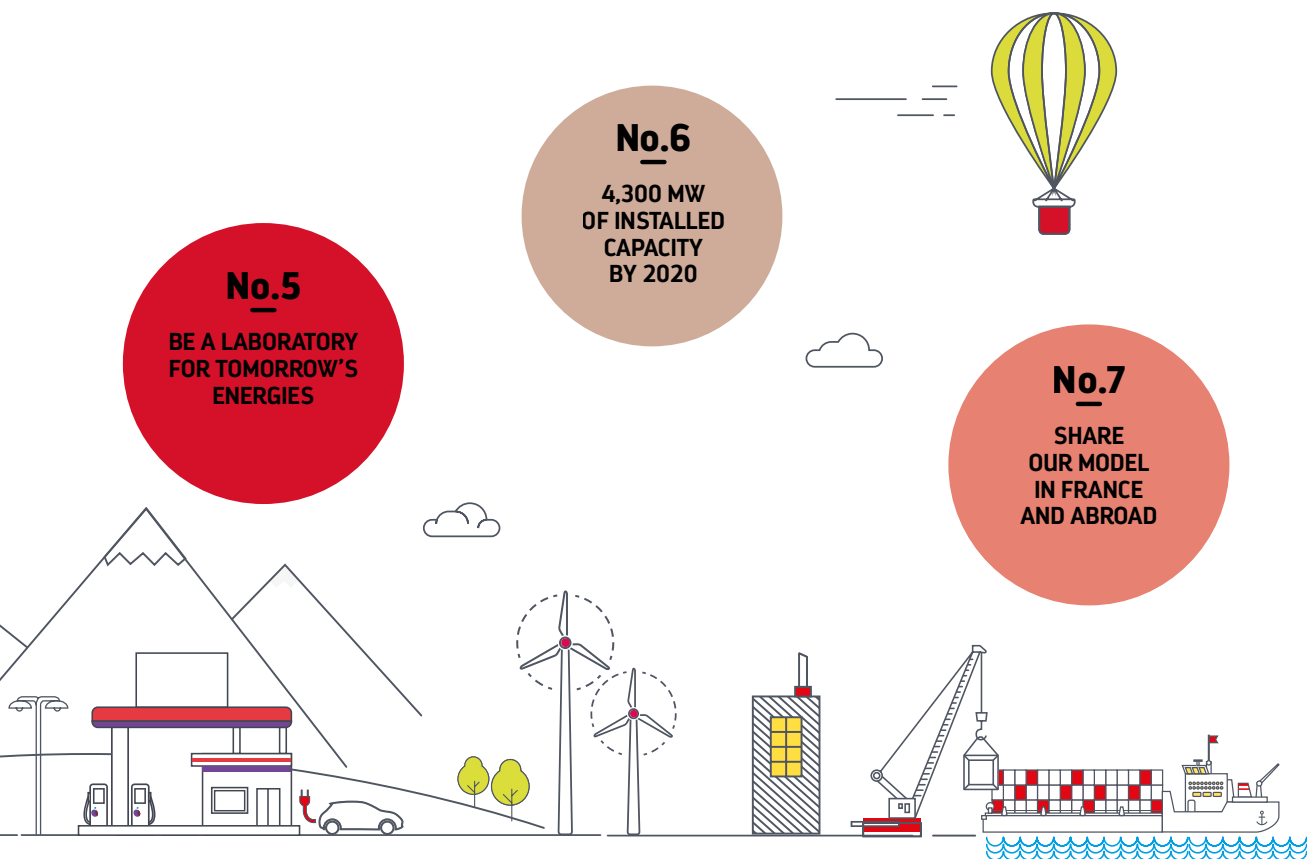


75 actions included in the 2016 CSR plan

And also scheduled:

CNR will strengthen its partnership with the Food Banks via all its branches along the River Rhone, by launching an appeal for donations in its branches when the Foods banks make their national call for funds.

> CONTRIBUTE TO A NEW WORLD OF ENERGY



⬆ Active innovation through partnerships

With new partnerships forged at local level, CNR works on new sectors such as marine and river current turbines, and green hydrogen, which is a solution for carbon-free mobility and mass electricity storage. But it continues to improve the performance of its current energy mix: the development of concentrated solar power in Gard, the repowering (renovation of ageing plants) of a wind farm in Drôme during 2015, and the implementation of predictive maintenance for its hydropower structures.

📍 **7 hydrogen projects and 1 river current turbine project** are in progress or under study

And also scheduled:

The project to make Marie-Galante France's 1st overseas island territory energy autonomous by 2020, with a 100% renewable and local electricity mix. CNR is the lead company of the energy and electric mobility consortium responsible for building an "Industrial demonstrator for a sustainable city" backed by the Ministry of the Environment, Energy and the Sea, and the European Union.

⬆ CNR already has 37 wind farms and 17 solar power plants

CNR is pursuing its zero emission strategy with a mix of hydro-, wind and solar power produced from local and natural sources. From now to 2020, it aims to reach an installed capacity in France and Europe of at least 4,300 MW in these 3 energies that play a major role in the combat against climate change. CNR already has an installed capacity of 3.5 GW (an additional 100 MW developed in 2016).

📍 **3.5 GW** of 100% renewable installed capacity

And also scheduled:

310 MW secured by contracts by October 2016, meaning that 75% of the final objective has already been reached.

⬆ Getting great rivers to dialogue with each other

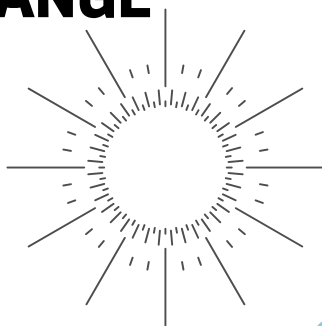
In addition to its presence in thirty countries where it offers its hydroelectricity and river engineering services, CNR has founded and now drives Initiatives for the Future of Great Rivers (IFGR), an international forum for reflecting on the rivers of tomorrow. Three sessions have already been held in Lyon, Montreal and Avignon. The session at Avignon, one of the rare French events to have been awarded the COP22 label, projected the voice of rivers as far as Marrakech where IFGR was invited to talk about rivers faced by climate change. Pilot projects on writing about rivers are already in progress in schools in the Rhone Valley, led by Erik Orsenna, author, Member of the French Academy and Chairman of IFGR.

📍 **3 sessions** of Initiatives for the Future of Great Rivers organised

And also scheduled:

Propose to students and start-ups to join in IFGR's reflections to improve knowledge on rivers and develop innovative applications and new activities.

> MEET THE CHALLENGE OF CLIMATE CHANGE



No.8

**ENCOURAGE
ALTERNATIVE
MOBILITY**

No.9

**SUPPORT
SUSTAINABLE
AGRICULTURE**



^ Green driving

Recognised as being in the national interest in 2015, the electric corridor deployed by CNR along the Rhone Valley will be completed at the beginning of 2017. In all, 52 charging points no more than 30 km from each other will be available at the end of 2016, from the Swiss border to the Mediterranean, supplied with CNR's 100% renewable electricity. In addition, the mobile river-borne waste collection service is starting operation in the city of Lyon. In particular, CNR makes available one of its wharves at Port de Lyon for this joint project that combines waste recycling and energy thrifty operation.

52 fast-charging points installed for electric vehicles in the Rhone Valley.

And also scheduled:

The installation of a multi-green fuel service station at the entry of Port de Lyon for carbon-free vehicles (electric, natural green gas, hydrogen); the development of new industrial and port infrastructures in the Rhone Valley, at Avignon-Courtine and Salaise-Sablons to promote goods transport via the river.

^ For new agricultural technique

CNR is reinventing one of its historic missions, supplying irrigation, by carrying out research and experiments to reduce water consumption by farms, and developing new agro-ecological practices and preserving biodiversity in the Rhone Valley. CNR already uses pastoral maintenance for 1,000 ha of its land, accommodates 3,000 bee hives, builds fish passes to favour fish migrations and participates in the Alternative and Organic Techniques site at Etoile-sur-Rhône.

3 projects are in progress for sustainable agriculture (reduction of agricultural vulnerability; development of apiculture; support for alternative and organic techniques)

And also scheduled:

The development of solar energy for agriculture will lead to combining agriculture and solar power production.

OUR COMMITMENTS AT A GLANCE



I

SHARE REFLECTIONS AND ACTIONS

1

PARTICIPATE IN EDUCATING
TOMORROW'S "consum'actors"

2

ASSOCIATE
the community and local authorities
with some of our REN projects

3

STRENGTHEN
public consultation

4

STRENGTHEN
our CSR strategy

II

CONTRIBUTE TO TOMORROW'S ENERGY WORLD

5

BE
a laboratory of tomorrow's energies

6

4,300 MW
of installed capacity by 2020

7

SHARE
our model in France and abroad

III

MEET THE CHALLENGE OF CLIMATE CHANGE

8

ENCOURAGE
alternative mobility

9

SUPPORT
sustainable agriculture

CNR offsets the greenhouse gas emissions generated by all its publications.
These emissions linked to design, fabrication and transport are estimated at 30 tons CO₂ equivalent.
They are fully offset by the funding in Cambodia of improved cooking equipment that reduces: the consumption of wood fuel by 25%, the use of the country's forestry resources which provide 80% of the country's energy needs, and cooking fumes noxious for the population.

The amount of this carbon offset is paid to the NGO GERES - Groupe Énergies Renouvelables, Environnement et Solidarités – which carries out the project in the field.

Through this action, CNR meets a twofold challenge: it limits its carbon footprint and supports vulnerable populations to develop low carbon consumption practices.

For further information on carbon offsetting:
info-compensation-carbone.com – co2solidaire.org – geres.eu



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Energy is our future, so save it!

Meet us on

