

National strategy of

ecological transition towards sustainable development

2015-2020

IN A
NUTSHELL



Ministère
de l'Écologie,
du Développement
durable
et de l'Énergie



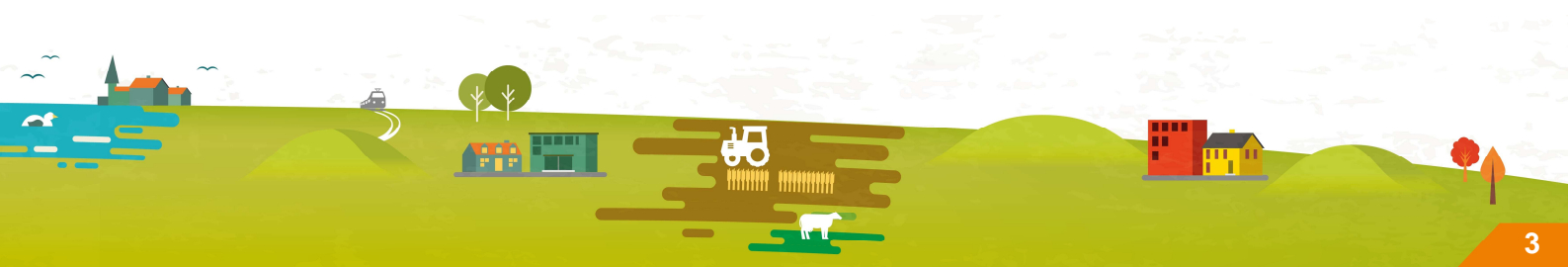
THE ECOLOGICAL TRANSITION TOWARDS SUSTAINABLE DEVELOPMENT

A new strategy for 2015-2020



In 2015, the energy transition law for green growth is creating a momentum which removes obstacles, boosts initiatives and enables everyone to act. All stakeholders, local authorities, NGO's, businesses and citizens are gradually building a new social model that combines economic, ecological and human progress.

Building on that momentum, the national strategy of ecological transition towards sustainable development (SNTEDD) 2015-2020 replaces the national sustainable development strategy 2010-2013 by setting us on a new path to sustainable development. The national strategy of ecological transition towards sustainable development ensures the consistency of public policies and facilitates people's ownership.



THE THREEFOLD AMBITION

Defining a 2020 vision

Fight against climate change, reconquest of biodiversity, sobriety in the use of resources and reduction of environmental health risks are challenges with strong economic and social implications. We must take collective and coordinated action to tackle them. The strategy offers an integrated 2020 vision that goes beyond sectoral policies.

Transforming the economic and social model for green growth

Citizens are ready to change, provided they have the tools to act. The strategy provides levers to lead France on the way to green growth : saving energy, preventing waste, developing clean transport, promoting a circular economy, sharing knowledge, facilitating innovation...

Creating ownership of the ecological transition

The mutation required by the magnitude of challenges leads to a radical change in our way of thinking and living. The strategy strengthens pedagogy and support to stakeholders, helping them to organize and to amplify their efforts in favor of the ecological transition at national, European and international levels.



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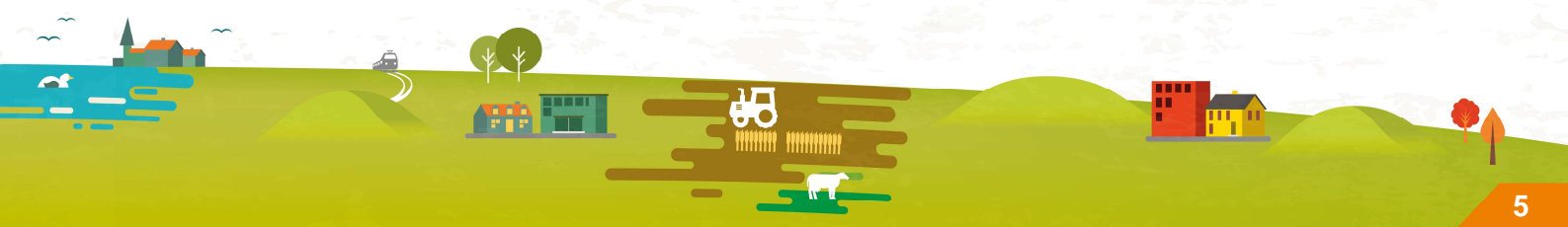
Promoting sustainable development at European and international levels

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DEFINING A 2020 VISION

GOAL 1

Developing sustainable and resilient territories

Diversity of territories is France's wealth.

The priorities



Maintaining capacity of territories to provide and benefit from **ecosystem services**



Ensuring **resilience of territories**



Developing **sustainable urban models**



Co-constructing **territorial sustainable development initiatives**

Starting 1st May 2016 : generalization of the action « **Sound Soil : pesticide-free territories** »

Call for initiatives « **200 positive energy territories for green growth** »

Moratorium on GMO cultivation

Exporting Sustainable cities : **Vivapolis**



HOW?

More than
26 500
organic farms in
France

a few figures

11 million km²
maritime areas to
protect

HOW DOES IT LOOK ON THE GROUND ?

Heritage rehabilitation in the mining area

The cessation of mining activity in the Nord-Pas-de-Calais Region had considerable economic and environmental consequences for the territory. With the establishment of the Permanent Conference of the mining area (*CPBM*), stakeholders have been able to establish a long-term, cross-cutting and systemic vision of their territory. The approach has shown the ability of local players to build collaborative initiatives based on their own strengths and has helped develop a new toolkit to observe and monitor the territory.

Revitalization of a declining rural territory

In Mené (Brittany), a remote territory with one single economic activity, local stakeholders have sought diversification opportunities. They have committed to 10 years of projects that aim to develop local renewable energy production. Three projects (a biogas plant, an oil mill to produce agrofuel, a wind farm) are part of a territorial development strategy to achieve energy independence by 2030.

ENERGY TRANSITION
for GREEN GROWTH

Young people's qualification level by employment areas

Population exposed to flood risk by rivers

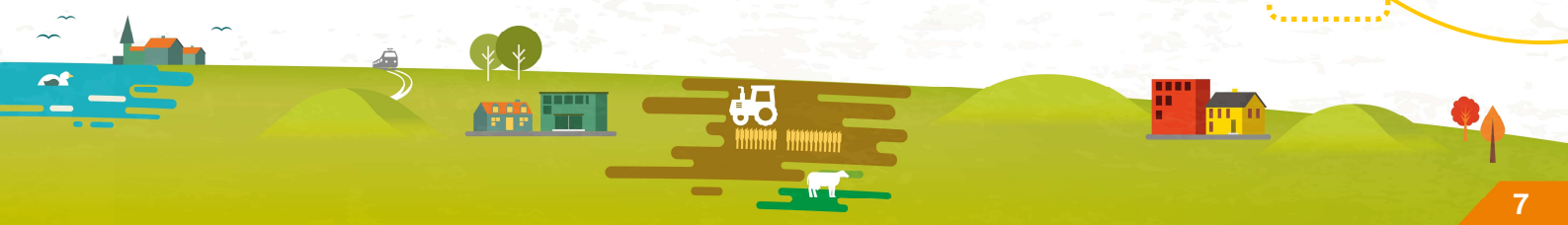
Loss of agricultural, natural or forest land through artificialization

Use of public transport for commuting journeys

Access time to workplaces by car in urban areas

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Follow up



DEFINING A 2020 VISION

GOAL 2

Engaging in a circular and low carbon economy

A new model of resource efficient society.

The priorities



Reorienting production, trade and consumption **patterns**



Making our **economy less dependent** on non renewable resources



Developing a more resource efficient and innovation-based **new industrial and agricultural policy**



Engaging territories and spurring local initiatives

Ban on single-use plastic bags on the 1st of January 2016

Tax credit on electric cars and charging points

Call for « zero waste » territories projects

Tackling illegal landfills

HOW?

Recycling involves **25 times more** jobs than dumping waste

A few figures

4 million private recharging points by 2020



HOW DOES IT LOOK ON THE GROUND ?

OPTYMO : a solution of global and multimodal **mobility**

Based on the needs of residents, the "Territoire de Belfort" has designed and implemented a comprehensive and multimodal mobility solution. It both increases and improves the supply of transport (buses, bicycles and self-service cars), meeting all mobility needs of users in lieu for private cars. Network traffic increased by 80% between 2007 and 2013 (8.7 million passengers) and cost per trip could fall by 59% if the objective of 20% modal share for public transports is reached in 2020.

ENERGY TRANSITION
for GREEN GROWTH

Combining local **development** and **environmental** preservation

Facing up a water pollution due to agricultural activities, the city of Lons-le-Saunier has encouraged farmers to develop organic production. By providing financial support and guaranteeing that a part of the production would be purchased for the city catering, 1/5 of the catchment protection perimeter has been converted to organic production. This has led to significantly reduced pollution for an additional cost of only 0.02 €/m³ of distributed water. Moreover, 1/4 of the city catering budget was redirected to the local economy..

Evolution of final energy consumption, intensity and sectoral breakouts

Rate of municipal waste recycling

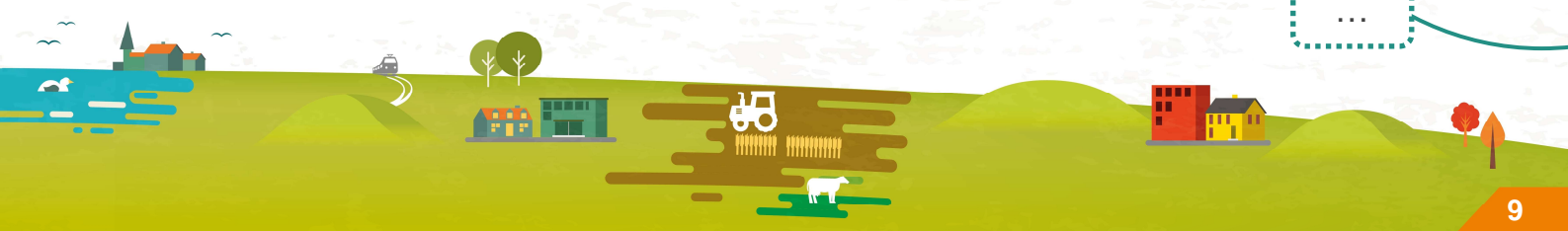
Organic production areas

Share of renewable energies in gross final energy consumption

Modal share of non-road freight transport in domestic land freight transport

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Follow up



DEFINING A 2020 VISION

GOAL 3

Preventing and reducing environmental, social and territorial inequalities

The ecological transition must benefit everyone

The priorities



Reducing and preventing **energy vulnerability** in housing and transport



Preventing and adapting to **climate change impacts**



Preventing and addressing **health-environment inequalities**

Widespread **one-stop shop** for energy renovation in communities of communes

Ban on aerial application in order to reduce pesticide use

Vehicle identification system according to their emissions of pollutants

An efficient Integrated « **climate-air-energy** » policy through the reduction plan of emissions of air pollutants

HOW?

Zero

bisphenol A in baby bottles and in materials in contact with foodstuffs

500 000

dwellings renovated each year until 2017

A few figures



HOW DOES IT LOOK ON THE GROUND ?

Discover the « futures of climate » portal

The *Drias* portal, “futures of climate”, provides regionalized climate projections to stakeholders involved in climate change adaptation. It provides free access to the latest climate projections calculated by several French laboratories involved in climate modeling. In 2014, the portal, which is part of the national plan of adaptation to climate change, was extended to overseas French territories.

ENERGY TRANSITION
for GREEN GROWTH

Towards the relocation of activities and goods

Within the framework of the national coastline integrated management strategy, this experiment aims to encourage the inclusion of natural phenomena in development strategies while maintaining the dynamism of territories through the implementation of pilot approaches regarding activities and goods relocation. In recognition of their involvement with various local partners, five projects were selected in 2012 for a period of 2 years. Spread over the entire coastlines of French mainland and overseas, they are representative of different coastline morphologies (dunes, sandy, rocky cliff) and various challenges typologies.

Life expectancy (with regional, socio-professional and gender break-outs)

Share of household income dedicated to energy

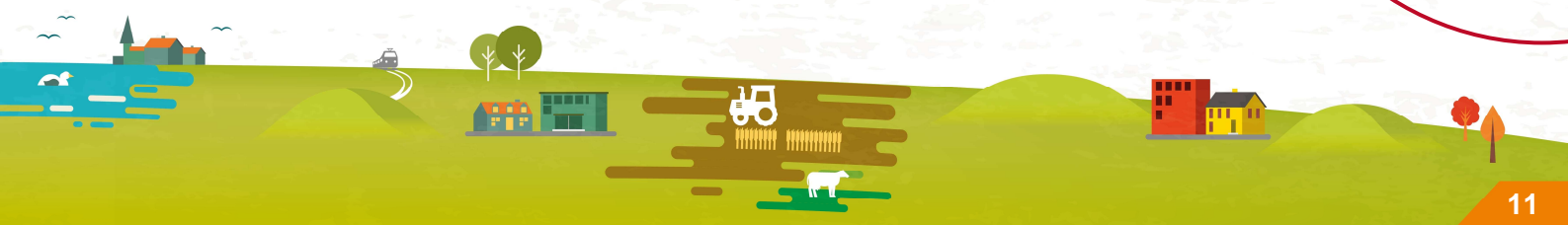
Dwellings and population exposure to marine submersion risks

Population exposition to climate risks

Evolution of standard of living inequalities at national and territorial levels

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Follow up



TRANSFORMING THE ECONOMIC AND SOCIAL MODEL FOR GREEN GROWTH

GOAL 4

Inventing new economic and financial models

Investing in the ecological transition is anticipating

The priorities



Elaborating a new **investment practices framework** to guide funding towards ecological transition initiatives



Changing stakeholders behavior by **transforming incentive and remuneration models** of economic performance



Involving stakeholders in the adaptation of economic models

Green bonds in order to diversify funding models

Introduction of a carbon component into fossil energy taxation

Creation of **tax credits** for domestic energy renovation works

Labelling socially responsible investment

HOW?

47,5 billion

euros dedicated to environmental protection in 2012

A few figures

Cost of inaction :

2%

of Gross Domestic Product

HOW DOES IT LOOK ON THE GROUND ?

ENERGY TRANSITION
for GREEN GROWTH

Crowdfunding for the energy transition

Lumo is a crowdfunding website that enables citizens to make responsible and sustainable investment in renewable energy collective initiatives developed in collaboration with local authorities, and with a sense of general interest. After starting with solar energy, Lumo is now working on wind farms and boiler projects from biomass or biogas.

Financing ecological transition initiatives by issuing green bonds

The Ile-de-France Region has issued bonds whose purpose is to fund initiatives related to the energy and ecological transition, including energy initiatives (zero energy high schools, geothermal, dedicated-lane transport ...), low energy social housing, actions fostering biodiversity. This made it possible to raise € 350 million from 23 investors in half an hour over 12 years. The interest was confirmed by the € 600 million successfully raised in the second round.

ENERGY TRANSITION
for GREEN GROWTH

Follow up

Share of environment tax revenues in compulsory levies and GDP

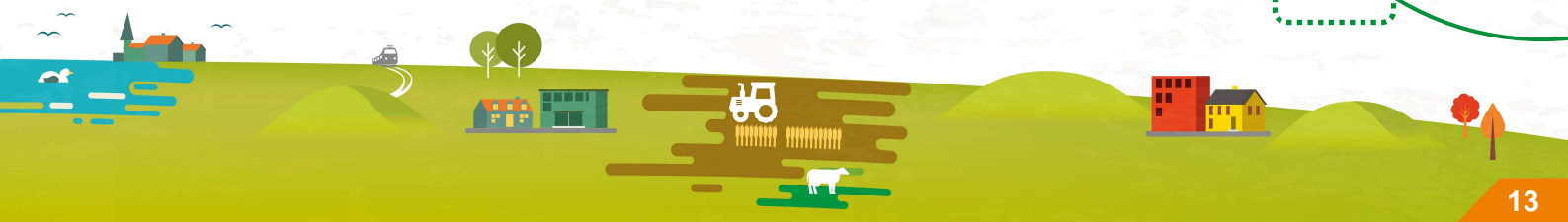
Share of investments dedicated to energy savings in industry

Evolution of the stock of socially responsible investment (SRI)

Evolution of the stock of sustainable bonds

Employment trend in social economy.

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TRANSFORMING THE ECONOMIC AND SOCIAL MODEL FOR GREEN GROWTH

GOAL 5

Accompanying the ecological transformation of economic activities

The ecological transition is an opportunity for all

The priorities



Anticipating **economic mutations** related to the ecological transition and their social effects



Accompanying **professional transitions**



Informing, encouraging and advising all economic players, especially SMEs and VSEs

National Platform for **Corporate Social Responsibility**

Supporting developing sectors and activities for **green growth**

Training programs on **energy saving** for artisans and enterprises in the building sector (FEEBAT)

Diploma renovation for a better integration of the ecological transition

HOW?

About
1 million
jobs created by green economy activities in 2011

A few figures

25 000
professionnals will be trained every year thanks to FEEBAT

HOW DOES IT LOOK ON THE GROUND ?

Assistance to professional conversions

A « toolkit » is currently in process in order to help adapt available skills to the greening of the economy in local job markets particularly affected by the ecological and energy transition. This kit is based on actions observed and implemented in three pilot sites called "demonstrators" (marine renewable energies in Upper Normandy - Territory of Havre ; waste in Provence - Etang de Berre ; more diffuse and widespread greening in Alsace - Basin Molsheim).

ENERGY TRANSITION
for GREEN GROWTH

Biodiversity « tour de France »

French Chambers of Commerce and Industry (CCI) organize about ten annual training sessions in regions, in order to raise stakeholders' awareness regarding interactions between their activity and biodiversity. They gather SMEs, local authorities and environmental organisations. These sessions put biodiversity at the heart of corporate strategy, considering it as a "capital" that provides many services, from products or raw materials supply to recreational services.

Ratio of eco-activities added value to GDP

Green and greening jobs requests and offers

Occupational integration of young trainees after environmental studies, by sectorial breakouts

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Follow up



TRANSFORMING THE ECONOMIC AND SOCIAL MODEL FOR GREEN GROWTH

GOAL 6

Guiding knowledge production, research and innovation towards the ecological transition

Innovation is the driving force of green growth

The priorities



Associating stakeholders in **research choices**



Facilitating **innovation** with all players



Associating stakeholders in efficient knowledge and data production



Facilitating and encouraging **access to data** and to scientific results

Programme Investment for the future

Making environmental data available on the portal "Tout sur l'environnement"

Providing funding for research and innovation to SMEs

Life-size experimentations

HOW?

+ 18 %
participants between
2012 and 2013 in
participatory sciences
initiatives related to
biodiversity

A few figures

50%
of programmes
Investment for the
future dedicated to the
ecological transition

HOW DOES IT LOOK ON THE GROUND ?

Better **geographic information sharing**

Regional or local platforms of geographic information exchange, also called geoportals, are decision-support tools for territories policy-makers. They are based on co-construction of analyses with shared geographic data and on their dissemination to local players. For example, Pégase Poitou-Charentes provides static or dynamic maps, methodological tool to deepen the knowledge of Poitou-Charente territories and draw upon the multiple thematics.

Participatory sciences protecting biodiversity

NGOs and volunteers monitor common birds through spotting and counting actions. This provides a constantly updated vision of the evolution of bird populations and of the conservation status and evolution of their environments. The contributions do not always make use of cutting-edge scientific knowledge but they are organized into protocols validated by scientists.

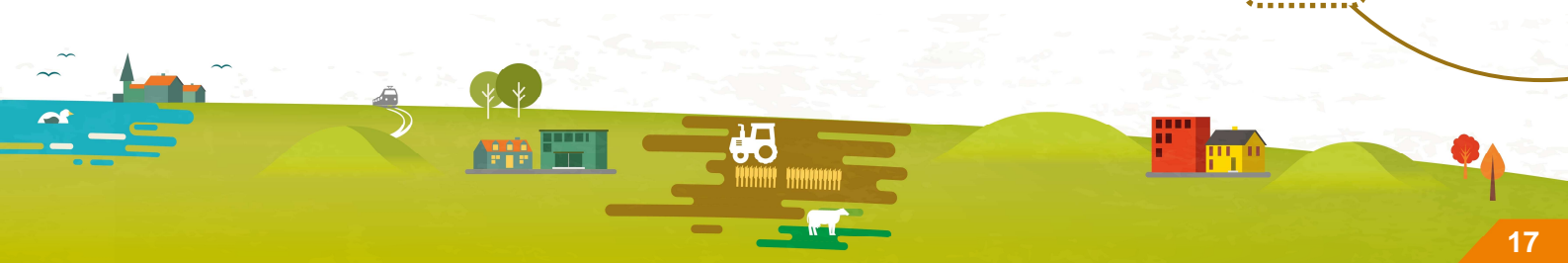
Public and private R&D expenditures (including environmental)

« Investments for the future » conducted by the Ademe (Agency for Environment and Energy Management) : leverage of public intervention on private investment

Increase in amount of documentary data input on the portal
« Tout sur l'environnement »

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Follow up



CREATING OWNERSHIP OF THE ECOLOGICAL TRANSITION

GOAL 7

Educating, training and raising awareness for the ecological transition and sustainable development

Understand in order to act.

The priorities



Generalizing **education on the environment and sustainable development** from nurseries to higher education



Promoting initiatives, experimentations and **citizen innovations**



Fostering **information** sharing on the environment



Encouraging **change of lifestyle** within society

Generalizing "nature areas"
Encouraging "nature" school trips

Labelling sustainable development approaches
in schools (E3D Label)

Environmental labelling of products and services

Developing **citizen experimentation**
such as participatory workshops

HOW?

Engaging
10 000

school initiatives
related to the
ecological transition
by 2017

+ 85 000
bibliographic resources
available on the portal
« Tout sur l'environnement »

A few figures



HOW DOES IT LOOK ON THE GROUND ?

The " **Positive Energy Families**" challenge

ENERGY TRANSITION
for **GREEN GROWTH**

Teams of ten homes are grouped to represent their village or district and meet the challenge of reducing as much energy consumption as possible : heating, hot water, domestic equipment. Each team takes the challenge of saving at least 8% energy compared to the winter before the contest.

The audiovisual industry is mobilized

Ecoprod is a collective initiative launched in 2009 by audiovisual players to start taking the environmental footprint into consideration. The goal is to engage the transformation of audiovisual and film production in the most sustainable way. Since 2009, nearly 300 carbon footprint assessments have been carried out by producers. Thirty movies have been impacted in the field. A charter for audiovisual companies was also launched in March 2014.

Number of students in their last year of environment studies

Number of initiatives related to sustainable development education in schools at primary and secondary levels

Evolution in the use of the portal « Tout sur l'environnement »

Declared use of ecolabelled products

...

Follow up



CREATING OWNERSHIP OF THE ECOLOGICAL TRANSITION

GOAL 8

Mobilizing stakeholders at all levels

The ecological transition involves everyone.

The priorities



Encouraging every stakeholder to be **responsible**



Developing alliances, synergies and win-win strategies, especially through a **reinforced public participation**

Strengthening of the **participatory democracy**

Corporate sponsorship in ecological and energy transition

Local Agendas 21

Governmental **exemplary Administration plan**

HOW?

Reaching
50%
of clean vehicles within the State administration and state-owned companies fleet.

A few figures

470
agendas 21 have been labelled « State recognition » since 2006

HOW DOES IT LOOK ON THE GROUND ?

Carbon footprint assesment in the ministries

ENERGY TRANSITION
for GREEN GROWTH

Following up on an administrative circular regarding greenhouse gas emissions and actions planned by the State administrations, all services within the ministry of Interior– around 7 200 sites in total – have started implementing those actions with the objective of drawing up a plan organized around a few main priorities.

Sustainable Development Charter

The sustainable development Charter of Port Atlantique - la Rochelle, launched on 8 December 2011, resulted from a joint approach where signatories (the port, local representatives, the prefecture, neighborhood or environmental associations) commit to developing the port in a sustainable way, respecting its urban and natural environment and complementarity with other sea-related activities.

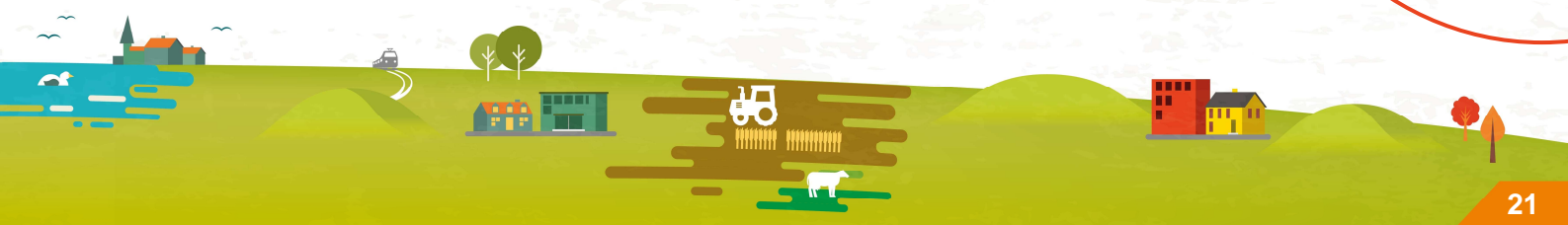
At the end of May 2014, the overall progress rated 78% out of 64 concrete actions organized in 10 themes related to sustainable development.

Number of local agenda 21 and share of the population which is impacted

Population covered by incentive pricing on waste management

Part of the national territory covered by SCoT (Territorial Coherence Programme) including biodiversity conservation issues and limiting the use of space

Follow up



CREATING OWNERSHIP OF THE ECOLOGICAL TRANSITION

GOAL 9

Promoting sustainable development at European and international levels

Sustainable development knows no border.

The priorities



Strengthening environment and sustainable development **international governance**



Carrying out **climate negotiations**



Strengthening **protection and valorisation of ecosystems** and natural environments



Promoting the **ecological transition of economy**



Integrating sustainable development into **European Union** sectorial policies



Adapting **development assistance** policy

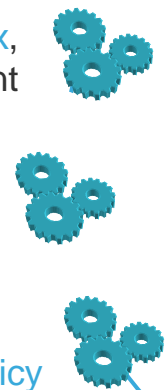
Setting up a **financial transactions tax**, with a significant part dedicated to development

Regional cooperation for **protection and management of marine environments**

Adopting **sustainable development goals** at international level

Implementing the **2030 climate and energy policy framework**

Reforming the **Common Agricultural Policy**



HOW?

In 2012, France dedicated **0,46 %** of its gross national income to development assistance

A few figures

European target: **- 40%** greenhouse gas emissions by 2030



HOW DOES IT LOOK ON THE GROUND ?

Developing a low carbon buildings market **adapted to climate change**

Through the French Global Environment Facility (Fonds Français pour l'Environnement Mondial – FFEM) and the French Development Agency (AFD), France supports the non profit organisation The Nubian Vault which aims to provide the Sahelian rural population with sustainable, adapted and ecological housing with a low carbon footprint, by acting on both adaptation and mitigation of climate change.

ENERGY TRANSITION
for GREEN GROWTH

The **environmental** labeling of products in France and in Europe

Environmental labeling of products, by informing consumers and encouraging producers to eco-design aims to make our consumption and production patterns more sustainable.

As a follow up to the experiment conducted in France in 2011-2012, France has actively brought the case to EU level, with the view of multiplying similar initiatives in Europe and in the world. Thus, the European Commission launched in 2013 an experiment at the European level for 3 years. France is participating in the pilot phase.

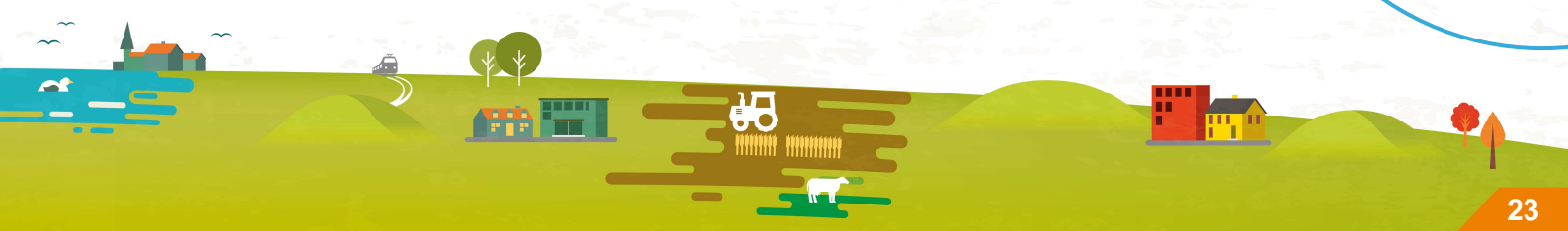
Share of official development aid within the national gross income

Amount of official development aid dedicated to biodiversity and climate

Share of French marine protected areas

Conservation status of natural habitats

Follow up



THE IMPLEMENTATION OF THE STRATEGY

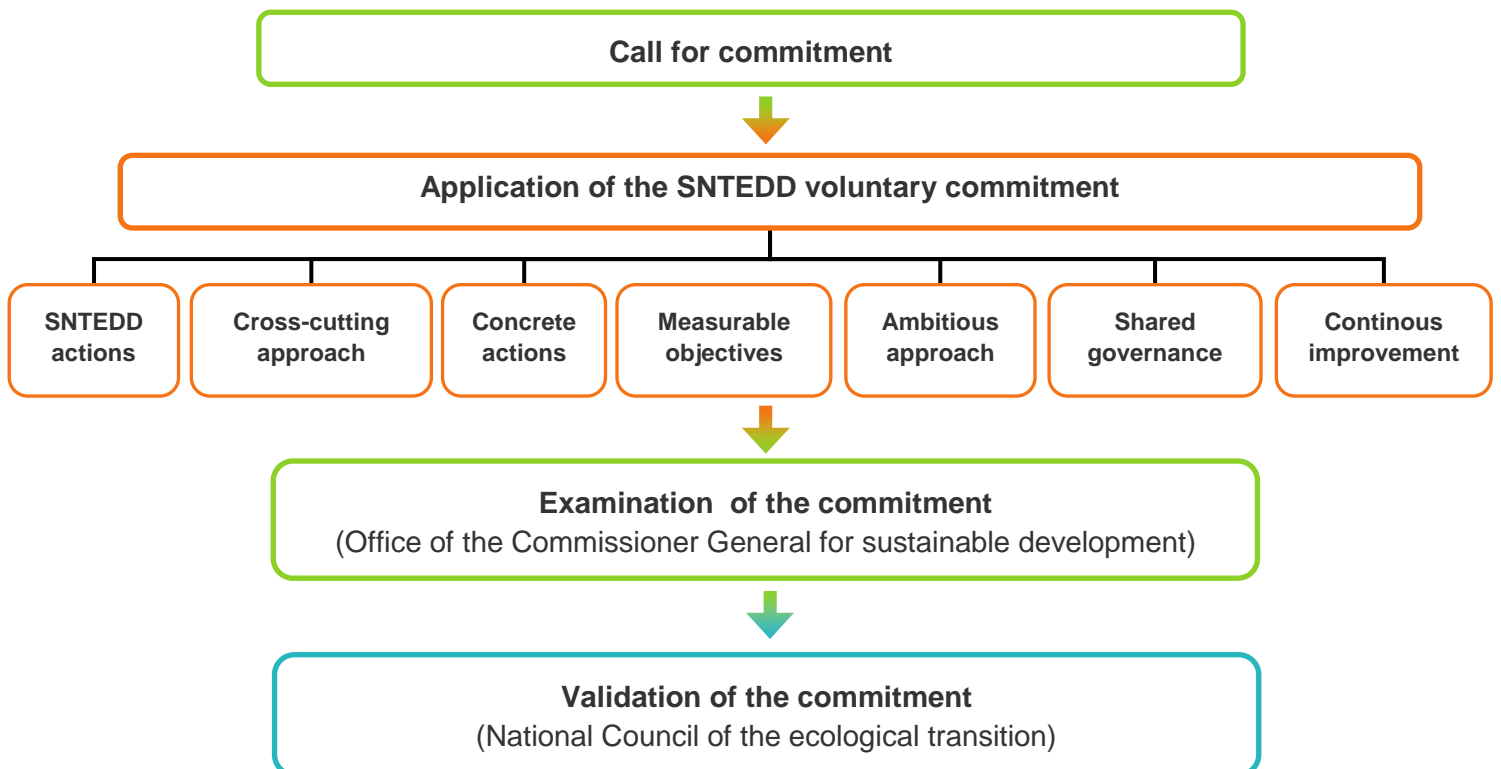


Get involved

› The commitment of all stakeholders

The **voluntary commitments of the SNTEDD** aim to support stakeholders in structuring and amplifying their actions in favor of the ecological transition, enhancing individual and collective ability to act. Thus, public and private legal entities are invited to join the vision, the ambition, the governance principles, the orientations and objectives of the strategy, in a continuous improvement perspective. This approach, for a 3-year period (renewable for 2 years), will be translated into concrete actions and measurable goals. The commitment is possible throughout the duration of the SNTEDD.

Voluntary commitments accession process



› The mobilization of State services

Every ministry should develop its own strategy or action plan, according to the principles defined in the committee of senior officials for sustainable development (hauts fonctionnaires de développement durable - HFDD).

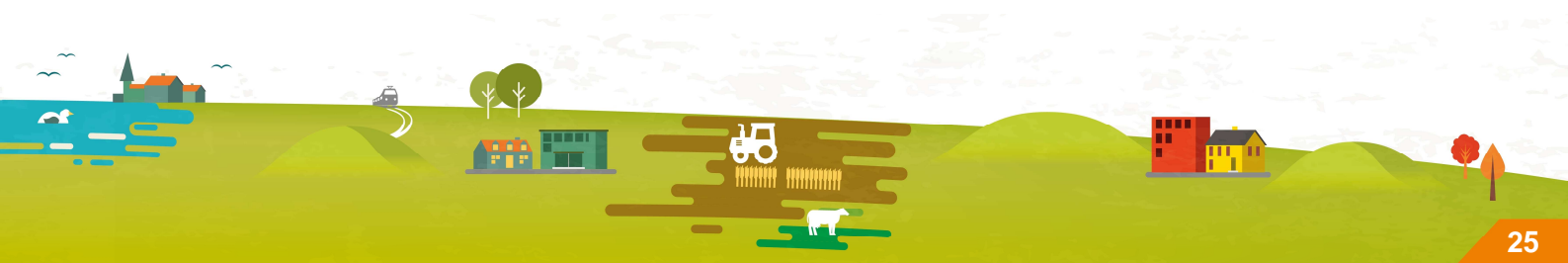
At territorial level, the SNTEDD is also an essential tool for the coherence of the action of the State:

- The **State-Region Planning Contracts** (contrat de plan Etat-région) 2015-2020 take into account the ecological transition and will set a framework for the regional implementation of the SNTEDD.
- The establishment of **regional committees for the ecological transition** (CRTE) gathering local stakeholders will be encouraged, in relation with the Regional Councils and with Regional Economic, Social And Environmental Councils (CESER).
- Local authorities, whose role has been reinforced by the new organization of the territory, will continue, with the support of State services, to develop and to deploy **positive energy territories for green growth, territorial sustainable development projects and local Agendas 21**.



How to follow up ?

An **annual progress report** will be sent every year to the National Council for the ecological transition (CNTE) and to the National Parliament, including the deliverings of the strategy and the updated progress indicators. The report will also highlight initiatives from all players.



Ministry of Ecology, Sustainable Development and Energy

This leaflet is extracted from the national strategy of ecological transition towards a sustainable development 2015-2020.

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Layout : Léa Boissonade, MEDDE/CGDD/DDD

Sources : Figures are extracted from the national strategy of ecological transition towards a sustainable development 2015-2020, the 2014 environment report in France, the leaflet La transition énergétique pour la croissance verte (energy transition for green growth), sustainable development indicators (CGDD), from the National Strategy on Endocrine Perturbators and from indicators from the National Observatory on Biodiversity.

Photo credits: L. Boissonade, A. Bouissou, O. Chatté, G. Crossay, T. Degen, D. Joseph-Reinette, S. Mahé, L. Mignaux, B. Suard et Y. Werdefroy.

Editing : MEDDE-MLETR/SG/SPSSI/ATL2

Printed on European ecolabel certified paper - www.ecolabel.com





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