LET'S TAKE ACTION!

Civil society in movement



Many participants from civil society

are taking action for the climate.



Certification

is awarded to the most creative, ambitious and innovative initiatives. You can recognise them with this label



Hundreds of events,

backed by a variety of civil society organisations, are being held in France and worldwide in 2015 to mark COP21.

Civil society and COP

• Civil society, in all its diversity, has been very present and active in climate negotiations for many years. While the COPs bring together negotiators from 195 countries and the European Union, they are also open to thousands of observers from businesses, environmental NGOs local authorities indigenous populations/communities, research institutes, trade unions, Women and Gender organisations, youth organisations...

 What's more. France has chosen to build Generations climate spaces dedicated to conference sessions, debates, exhibitions, screenings, stands etc. at the Paris-Le Bourget site. Open to the public with no need for accreditation, these spaces will help young people in particular understand the issues behind the conference. You are all welcome!



Improve your knowledge about COP21 quiz, glossary, exhibition_in the COP21/CMP11 tools

On the road to Paris Climate 2015 shows a timeline of the main events on the site's home page





To find out more about COP21, visit our official website

www.cop21.gouv.fr/en

And follow us on the social networks







#COP21 #Paris2015

COP21

PARIS CLIMATE 2015 **SPECIAL** PARIS2015 COP21-CMP11 COP21 what's that?

The next United Nations climate conference, COP21, will be one of the biggest international summits.

The stakes are high: managing the climatic disruption that threatens our societies and our economies. The conference should lead to the adoption of a universal agreement that will provide a framework for transition towards low-carbon societies and economies able to withstand climate change.

"Climate fatalism is dangerous, and would lead to a disaster scenario of 3 to 6°C of warming by the end of the century [...]. We are gambling with the future of the planet and the survival of certain countries."

Laurent Fabius,

Minister of Foreign Affairs and International Development

"We must set an example and lead other countries to make a common commitment against climate disruption."

Ségolène Royal,

Minister of Ecology, Sustainable Development and Energy

"States need to know that a robust, long-term agreement will be an opportunity to usher in an era of growth that will be good for their populations, good for prosperity and good for the planet."

Christiana Figueres,

Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC)

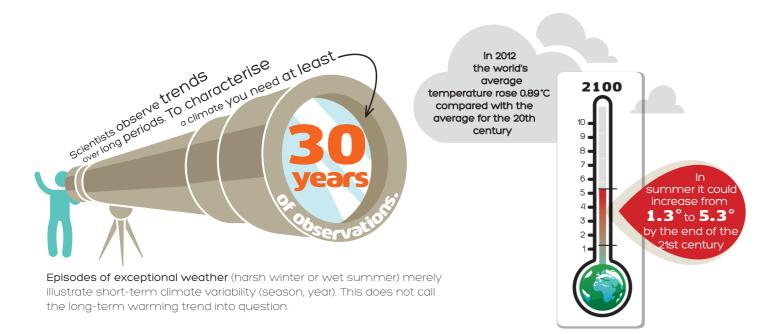
www.cop21.gouv.fr/en

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A complex PHENOMENON

is under way

In 2012 the world's average temperature had risen 0.89°C compared with the average for the 20th century. It could go up to 5.3°C during the 21st century if we do not control our greenhouse gas emissions.



The greenhouse effect

The greenhouse gases in the atmosphere play an important role in regulating the climate. They prevent a large amount of solar energy (infra-red radiation) being sent into space from the Earth. This is known as the greenhouse effect. Because of this, the average temperature on the Earth is about



The impact of human activities

The greenhouse effect is unbalanced by human activities. These cause the concentrations of greenhouse gasses in the atmosphere to increase artificially and, consequently, accentuate the warming of our planet. CO₂ (carbon dioxide) accounts for almost 2/3 of global greenhouse gas emissions caused by human activities. This is why the effect of other greenhouse gases is usually measured in CO₂ equivalent (CO₂e). Current CO₂ emissions will have an impact on concentrations in the atmosphere and on global temperature for decades.

THE CULTURAL HERITAGE

and climate change

Climate and climate change not only have an impact on the natural heritage but also on monuments and sites.

Historic buildings are intimately linked to their environment. Their durability greatly depends on their stability. The increased frequency of very heavy rainfall, flooding, salt water intrusion and greater instability of the soil (compression / dilatation) are problems for their conservation.

While the architectural heritage of adobe structures is particularly vulnerable, stone structures are also affected by climate change: changes in the cycles of wet and dry periods and periods of freezing and thawing speed up the decomposition of porous materials, including stone. Organic building materials, such as wood, are also under threat from certain parasites which have been observed to be migrating to altitudes and latitudes where they have not been seen until now.

In the north of Canada, the temporary thawing of frozen ground or ice is threatening Inuit villages. By weakening the foundations of homes and infrastructure, many villages are becoming increasingly difficult to live in. Some sites, where human settlement has been attested for 9000 years, are likely to disappear due to the thawing of frozen ground.



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Impacts already visible on BIODIVERSITY

Many changes have been observed in the natural world: some birds are migrating and starting to lay their eggs earlier, some animal and plant species are moving towards higher latitudes or higher altitudes.

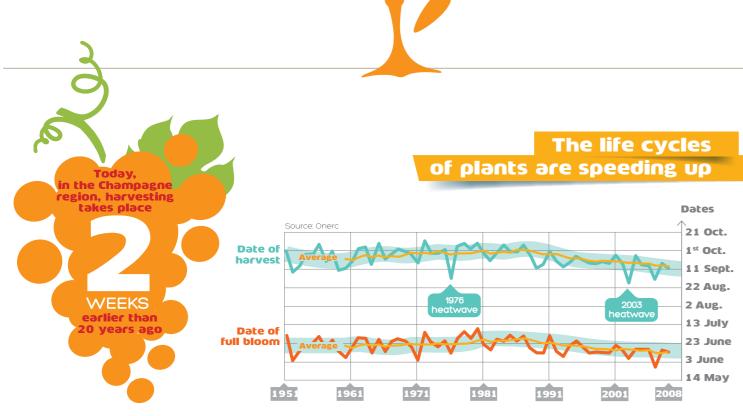
Animal species are moving northwards

Sensitive to the rise in temperature and probably a growing shortage of certain insects, passerines, such as the wood warbler or the willow tit, are moving to more northerly parts of Furane Ir.

warbler or the willow tit, are moving to more northerly parts of Europe. In France, their numbers have already fallen by 20 to 80%, depending on the species, over the course of the last twenty years.

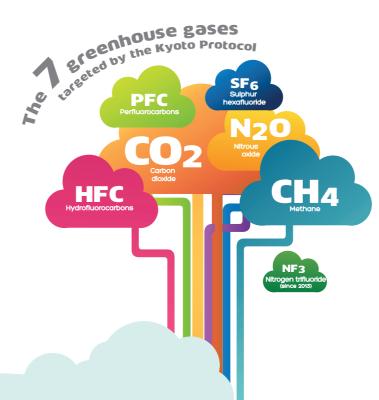


At the beginning of the 20th century the greylag goose Anser anser migrated across France twice a year to winter on the shores of the Mediterranean. Because of global warming it is now able to winter in temperate Europe, including France, as far north as the southern Scandinavia.



A global ISSUE

Historically, the developed countries have made the greatest contribution to climate change. But nowadays, some emerging countries emit as much greenhouse gases (GHG) per head of population as France.



Meeting the challenge of climate change

At international level

1992

Earth Summit in Rio: start of global climate negotiations

1997

Signing of the Kyoto Protocol requiring 6 GHGs to be cut by 5.2% by 2012

2015

21st annual conference of the United Nations on Climate Change in Paris

At European level

2001

European Climate Change Programme

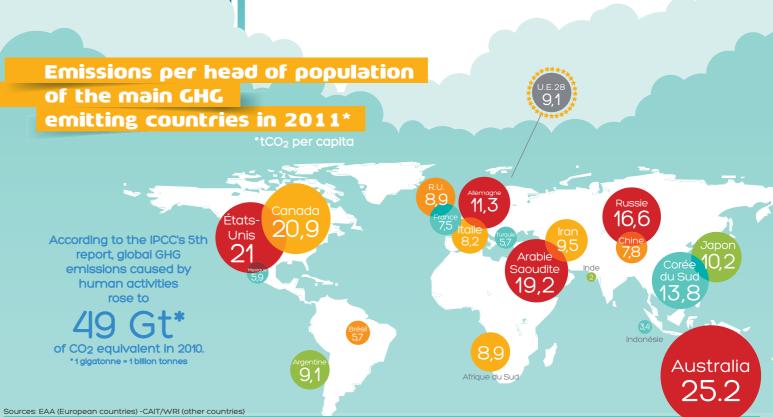
2005

EU

emissions trading system

2008

Climate and energy package setting the 3 targets for 2020, known as 3x20: 20% renewable energy, 20% reduction in energy consumption, 20% cut in GHGs



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International **NEGOCIATIONS**

In 1992, the United Nations and its member states, alerted to the seriousness of global warming by the scientific community, decided to take steps at global level. They established a UN framework convention on climate change, the UNFCCC, which provided the starting point for increased monitoring of climate change.



RESPONSABILITIES THAT ARE shared but differentiated

All greenhouse gas emissions have an impact on climate change. States have responsibilities that are shared but differentiated according to three criteria: historical responsibility, capacity and potential for reducing emissions.

COP, what's that?

They are the Conferences of the Parties, the signatories to the UNFCC. One a year has been held since 1995.

And CMP?

CMP (Conferences of the Parties Serving as the Meeting of the Parties to the Kyoto Protocol) refers to meetings of the Parties to the Kyoto protocol. There has been one a year since 2005, when the protocol came into force.



ording to

Signature of the Kyoto protocol, the first legally binding global climate agreement.

Highlights

1992

Adoption of the UNFCCC

at the Rio Earth Summit.

It came into force in 1994

2005

The Kyoto protocol comes into force.

2009

Validation of a shared target aiming to limit global warming to +2 °C by 2100 compared with the pre-industrial era.

2010

Creation of dedicated institutions, such as the Green Climate Fund.

2014

First capitalisation of the Green Climate Fund: 10.2 billion dollars (9 billion euros).

2015

COP21 in Paris: the UNFCCC signatories have to reach an international climate agreement that will apply to all of them from 2020.

Impacts already visible in the OCEANS and IN COASTAL AREAS

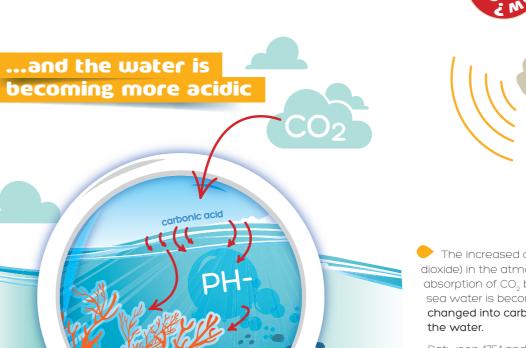
The ocean has been warming up since the 1970's and the average sea level is rising at an increasingly rapid pace. In the meantime, sea water is getting more acid.

The sea level is rising...

Between 1870 and 2000 the sea level rose

globally. 6 cm of that rise was in the last 20 years.





The increased concentration of ${\rm CO}_2$ (carbon dioxide) in the atmosphere leads to greater absorption of ${\rm CO}_2$ by the oceans. Consequently, sea water is becoming more acidic, as ${\rm CO}_2$ is changed into carbonic acid on contact with the water.

Between 1751 and 2004 the pH (potential hydrogen) of the surface water of the oceans fell from 8.25 to 8.14.

This acidification represents a major risk for coral reefs and some types of plankton, threatening the balance of numerous ecosystems.

196
signatories

These signatories are designated as Parties to the UNFCCC, and meet every year under the leadership of the UN. They have their own scientific body, the IPCC (Intergovernmental Panel on Climate Change).

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IMPACTS

already visible

Climate change is a reality. Disturbances are already being seen in the ecological balance of large ecosystems: a changing physical environment and living things that are trying to adapt or disappearing.

We are also beginning to envisage the consequences for human societies: forced migrations, an increase in the number of conflicts (use of water resources, appropriation of fertile soils, etc.).

The main impacts

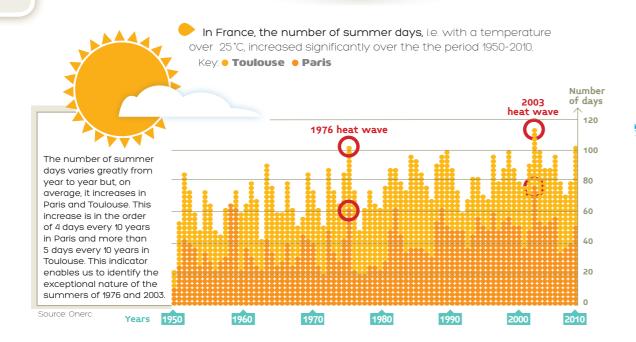
The impacts of climate change may vary considerably from one region to another, but they will affect the whole planet. The consequences can already be predicted.

Falling agricultural production in many parts of the world Increased health risks, Disturbed ecosystems particularly due 20 to 30% of animal and plant species disease-bearing under threat of insects ore frequent extreme weather events: heat waves coastal flooding, drought while the water is aettina warmer

The increase in air temperature is one of the most visible signs of climate change.
This is why the term

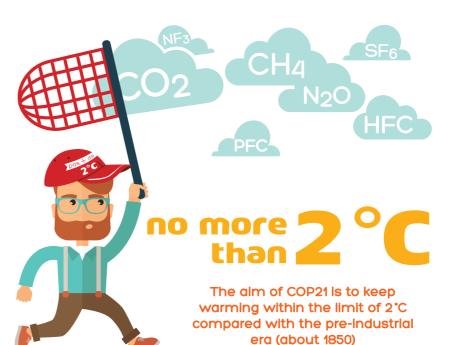
is often used.





PARIS CLIMATE 2015 challenges

COP21/CMP11 aims to achieve a new climate agreement that will apply to all countries from 2020 and establish tools for responding to the challenges.



Emissions reduction targets

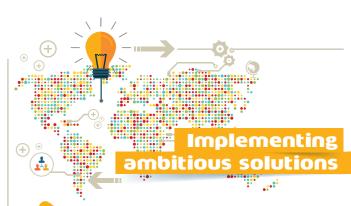
- The future international agreement will first of all have to deal in a balanced way with attenuation i.e. efforts to reduce greenhouse gas emissions and adapting societies to existing climate disruption.

 Before COP21, each country must publish its national contribution, presenting the efforts it intends to undertake. This is a new feature of these negotiations.
- A summary of the contributions, putting forward the cumulative effect of all the countries' efforts, will be published before the conference.

Financial support for developing countries



Another essential goal in Paris is to mobilise 100 billion dollars a year (about 78 billion euros) contributed by states, international organisations and the private sector from 2020. This commitment will enable developing countries to fight climate disruption while promoting fair and sustainable development.



Many large-scale initiatives are currently being developed by a variety of non-governmental bodies: cities, regions, businesses, associations etc. This is what is described as the Solutions Agenda. Since the New York Climate Summit in September 2014, positive momentum has been growing in various fields - forestry, energy, transport, adaptation etc. - through concrete action, exchanges of best practice and knowledge transfer. This action will supplement the states' commitments and convey a message of economic and social opportunity to reinforce everyone's ambition.

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PARIS CLIMATE 2015 France is hosting COP21

COP21/CMP11, also known as Paris Climate 2015, is the twenty-first Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC) and the eleventh meeting of the Parties to the Kyoto protocol. The event will be held at the Parc des Expositions in Paris-Le Bourget (Seine-Saint-Denis) from 30 November to 11 December 2015.

COP21 is the biggest diplomatic event that France has ever hosted. It is also **one** of the biggest climate conferences.

lt will bring together national delegates, observers and members of civil society. In all, the organisers are expecting:

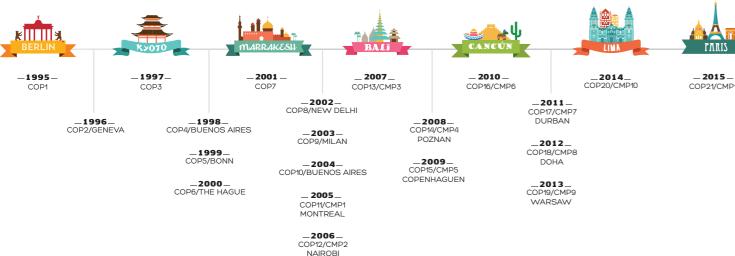




France's dual responsibilities

Welcoming all the participants under the best conditions for work and discussion.

Facilitating debates between countries and ensuring a transparent and inclusive negotiation process to favour the adoption of an agreement. This will not be an easy task, as decisions can only be taken unanimously.



What can we do about it? **ADAPTATION**

Adaptation policies aim to reduce our vulnerability to the impacts of climate change.

France has had a national climate change adaptation plan since 2011. The recommended measures concern all sectors of activity around four objectives:

Protecting people and property

Preventing risk inequalities

Cutting costs and reaping benefits

Preserving the natural heritage

In Basse-Terre,

Guadeloupe, a

uses a **Solar**

third each year.

1,000m² office block

air-conditioning

technique. A system

which cuts the electricity

consumption needed for

air-conditioning by one

Adapting infrastructures



The consequences of climate change (floods, fires, soil instability, etc.) will affect all permanent infrastructures, particularly those relating to transport. Several adaptation measures have already been identified to prevent the vulnerabilities of transport systems and improve the resilience of existing and future infrastructure.

Adapting the forests



As well as the increased frequency of exceptional events, certain animal species are spreading and there are also fundamental changes (rising temperatures, lower rainfall, etc.). Preparing forests for the future means improving their resistance to climate change from now on. This can be done by identifying the best adapted tree varieties, keeping forests in good ecological condition and ensuring genetic diversity is as broad as

Bellegarde-sur-Valserine (Ain) has the first bioclimatic station. naturally ventilated summer and winter thanks to a double cupola

> They have found solutions!

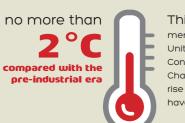
Using **Solar**powered airconditioning

a wine cellar in Banuyls-sur-Mer (Pyrénées-Orientales) has reduced its annual energy consumption by nearly 40%.

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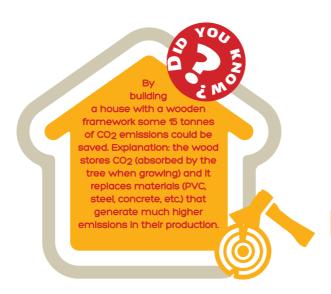
What can we do about it? **MITIGATION**

In view of climatic inertia, a rise in temperature by the end of the century is inevitable and all parts of the world are affected. But it is still possible to limit the rise in temperature on the Earth.



This is the aim of member countries of the United Nations Framework Convention on Climate Change, as they think a further rise in temperature would have devastating effects.

Tackling the causes of climate change by controlling greenhouse gas (GHG) emissions, is what is known as mitigation. GHG emissions can be reduced in all sectors.



Energy production

Reduce fossil fuel consumption (coal oil ags), control energy consumption (energy efficiency of products and low-carbon economy), develop use of renewable energies, etc.



Industrial production

Promote processes with lower GHG



Transport

Encourage the use of low-carbon vehicles, pool means of transport, develop means of transport with lower GHG emissions, etc.





and water treatment

Manage the quantities of waste produced, capture methane emissions, etc



Residential and commercial buildings

Renovate the existing stock and build new energy efficient buildings,

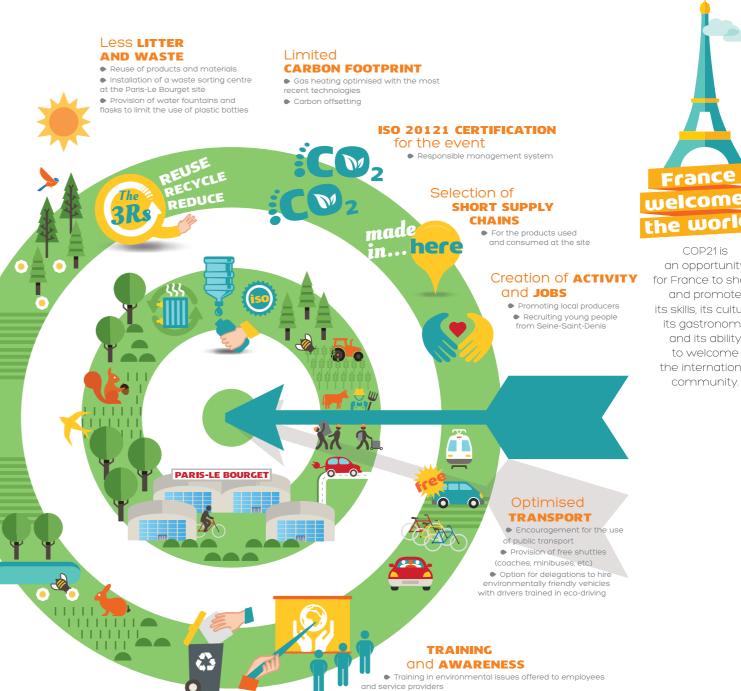


deforestation

Only import wood from sustainably managed forests, etc.

PARIS CLIMATE 2015 an exemplary COP

As the host country for COP21/CMP11, France intends to make the conference an environmental example. It will implement a programme of work to reduce as far as possible its impact in terms of natural resource consumption and greenhouse gas emissions.



France melcomes the world!

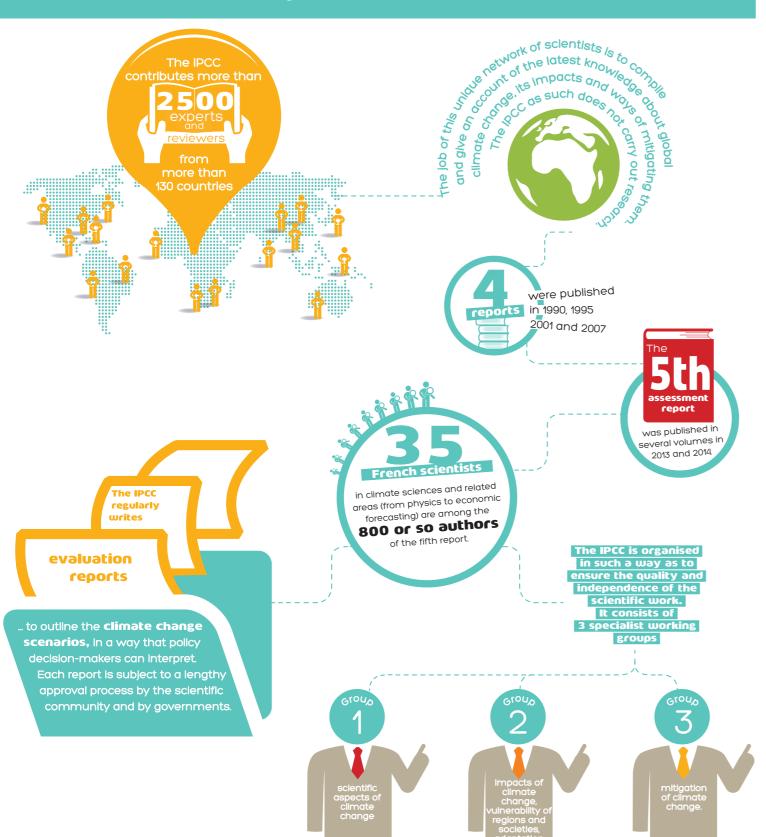
COP21 is an opportunity for France to share and promote its skills, its culture, its gastronomy and its ability to welcome the international

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WHAT IS

the IPPC?

At the international level, the Intergovernmental Panel on Climate Change (IPCC) was created in 1988 by the World Meteorological Organization (WMO) and the United Nations Environment Programme (UNEP).



France COMMITTED

to the fight

France is one of the industrialised countries with the lowest greenhouse gas (GHG) emissions. It accounts for only 1.2% of global GHG emissions yet it contributes 4.2% of the global GDP.

France's total GHG emissions from 1990 to 2013*

* in million tonnes of CO2 equivalent, mainland France and overseas departments (excluding land use)



Tackling climate issues in France

Since the end of the 1990s the most actively engaged local authorities have taken voluntary measures, including some aspects of climate policy, particularly in the form of agenda 21 programmes (practical action plans for sustainable development on a regional scale).

National programme to combat climate change (programme national de lutte contre le change ment climatique)

1st climate plan enabling France to meet its commitments under the Kyoto Protocol (stabilising emissions between 2008 and 2012 com-

pared with 1990)

National strategy for adaptation to climate change (stratégie nationale d'adaptation au changement climatique)

National plan for adaptation to climate change (plan national d'adaptation au changement climatique)

2014: Parliament's examination of the Bill on the energy transition for green growth





















Law making combating the greenhouse effect a national

priority and creating the Observatoire national sur les effets du réchauffement climatique (Onerc) (French national observatory on the effects of global warming).

Programme setting the directions of the energy policy (loi POPE of 13 July) and a factor 4 target: 4-fold reduction in greenhouse gas emissions between

1990 and 2050

Regional energy and climate plan (plans climaténergie territoriaux (PCET)) were made mandatory for regional authorities with

more than 50,000 inhabitants

Adoption of the first regional climate, air and energy plan (schémas régionaux du climat, de l'air et de l'énergie (SRCAE))

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