

# National energy policies

## ISCC Global Sustainability Conference

February 20th 2018

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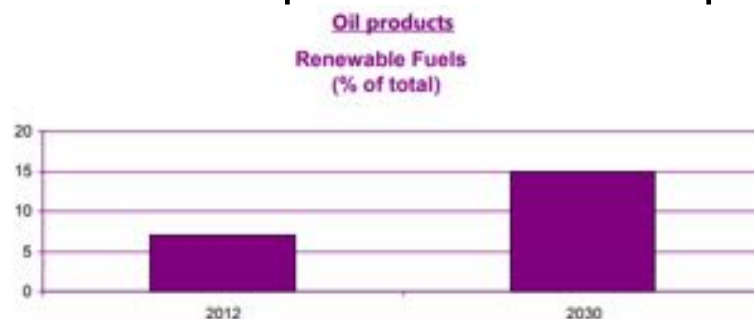
# National Energy Policy

- **Energy transition for green growth act: ambitious target**
- Multiannual Energy Plan
- Climate Plan
- French Plan for biofuels
- Focus on advanced biofuels research projects in France



# Energy transition for green growth act (adopted in August 2015): clear and ambitious goal

- **40%** less greenhouse gas emissions in 2030 compared to 1990
- **30%** less fossil fuel consumption in 2030 compared to 2012



- Increase the share of renewable energy sources to **32%** of final energy consumption in 2030
- Reduce final energy consumption by **50% in 2050** compared to 2012

# Provide citizens, companies and territories the tools to act together

Planning the energy transition with the involvement of all stakeholders

## National low carbon development strategy

- Overarching and sectorial policies orientation with long-term visibility
- First strategy adopted in November 2015 for the 2015-2028 period

## Multi-annual energy program (MEP)

- reducing energy consumption
- developing renewable energy sources
- First program adopted in S1 2016 for the 2016-2023 period



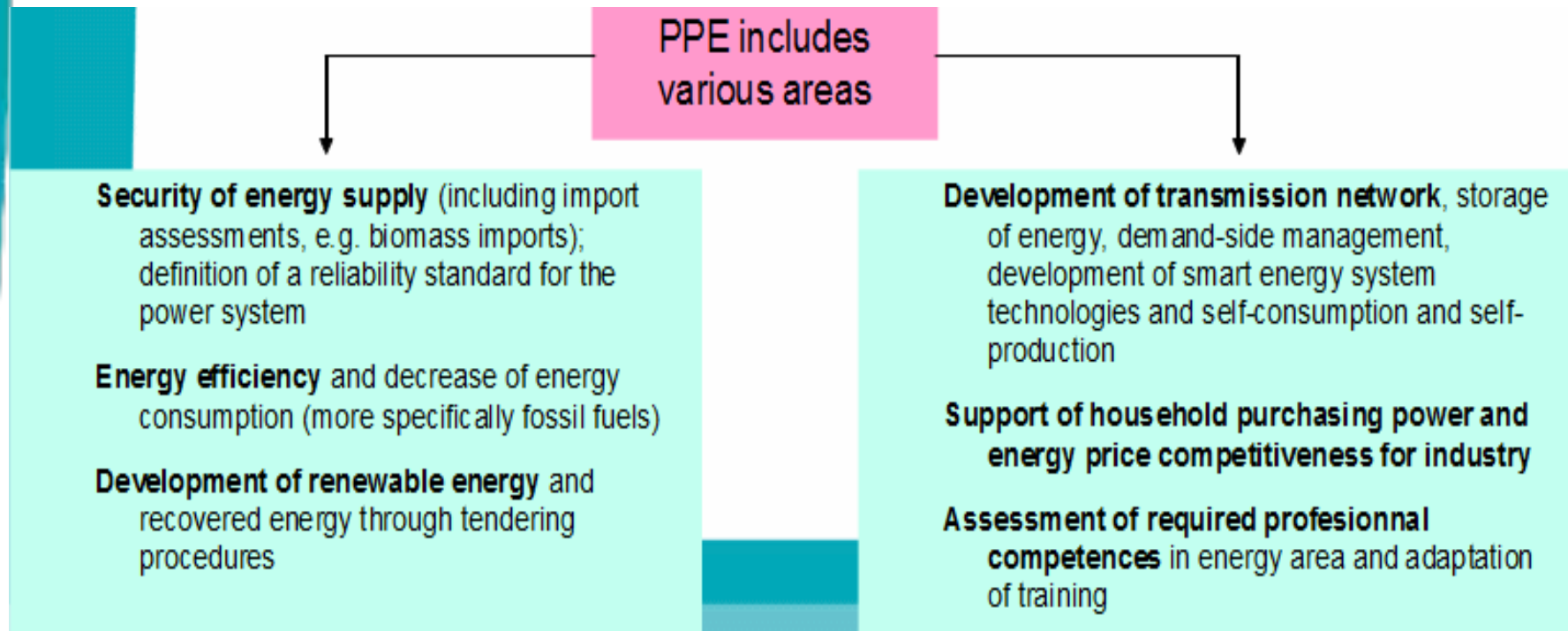
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# Multiannual Energy Plan (MEP)

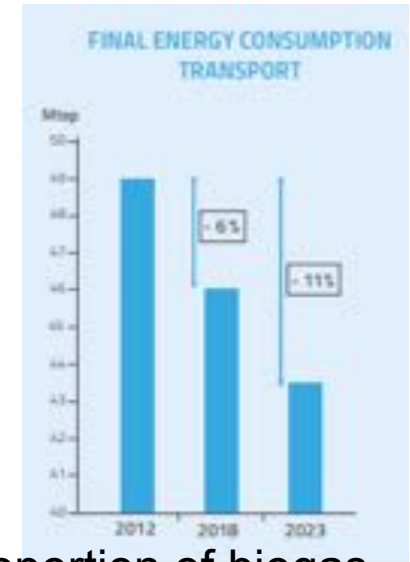
- MEP covers two periods of five years, except for the first MEP which covers two periods of three and five years (2016-2018;2019-2023).



# Multiannual Energy Plan (MEP)

## MEP results by 2023

- Reduce energy consumption in the transport sector by 11.5%.



## Concrete initiatives

- Put 2.4 million electric and hybrid vehicles on the road by 2023
- Convert 3% of HGVs to natural gas by 2023, and increase the proportion of biogas to 20% of natural gas for vehicles by 2023.
- Setting new objectives for the incorporation of advanced biofuels and other raw materials.

## Update in 2018

- The new MEP will be adopted at the end of 2018 at the same time as the new National Low Carbon Strategy.

- The MEP will define new targets for Renewable Energies for 2028 : new objective for advanced biofuels (as defined in annex 9 part A ILUC / RED II)

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# The Plan in a nutshell

- Inter-ministerial plan to increase the ambition of the government on climate change
- Consists of a set of actions that will be undertaken in the next 5 years
- Putting an end to fossil fuel energy and committing to carbon neutrality

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# French plan for biofuels

## Tool : mandatory incorporation under TGAP requirements

→ The 2005 Finance Act created a general tax on polluting activities (TGAP)

→ Distributors are exempt from the said tax if they incorporate a given amount of biofuels

→ If distributors have not purchased the amount of biofuels required for tax exemption, they may buy an incorporation certificate from another distributor who has incorporated the requisite amount

→ Consequently, fuel distributors are ready to pay higher prices for biofuels to comply with the mandatory incorporation target and not pay any penalties. This comes down to subsidising biofuel manufacturers.

### Objectives for the incorporation of biofuels (% energy)

2009	2010	2011	2012	2013	2014	2015	2016	2017
6.75	7	7	7	7	7 petrols	7 petrols	7 petrols	7.5 petrols
					7.7 diesel	7.7 diesel	7.7 diesel	7.7 diesel

*For 2018 : 7.5% petrols and 7.7% diesel*



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# BioTfuelL project



- 6 European partners
  - The overall budget is 178.2M€ with public subsidies from ADEME and former conseil Régional Picardie (now conseil régional des Hauts-de-France) amounting 33.2M€.
  - 2 demonstration plants have been built
- **The plant capacity is 3.0 t/h of torrefied biomass**



# FUTUROL project



2008

Project starts



2011

1 t/day pilot plant construction



2016-2017

Prototype construction & tests

2018 : END



- 11 French partners
  - Pilot plant built in Pomacle (nearby Reims)
  - Prototype 100 t/day facility was built in Tereos Bucy Le Long industrial site.
  - The overall budget for this project is more than 90M€ with public support from Bpifrance amounting 30M€.
- **The project is now complete, final deliverables are under processing.**



# Thank you for your attention



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