Content of the presentation

- Trends in emissions of pollutants in France (some example)
- Legislation in France
- Air quality problems encountered
- National and local reinforcement of the legislation
- Conclusions
Trends in emissions of pollutants in France (some example)
French perspectives on air pollution

**Significant emission reductions**

**PM$_{2.5}$ - kt**

**GHG – Mt CO$_2$e**

Emission inventories – France 2012
Source CITEPA / format SECTEN - April 2012
www.citepa.org

**French perspectives on air pollution**

**Content of the presentation**

- Legislation in France
Extended regulation covering emission sources

At international level: French involvement in Conventions and Protocols
- Convention on Long Range Transport of Atmospheric Pollutants with its protocols: Gothenburg, Aarhus (heavy metals and POP)
- Rio Convention: Kyoto Protocol

At European level: all EU directives translated in the French Legislation
- EU Directives on air quality
- EU Directive on emission ceiling
- Sectoral Directives on Large Combustion plants, waste treatment, solvents,
- EU Directive on mobile sources (EURO I to EURO VI) (Road traffic and off road sources)
- Directives related to abatement of GHG, energy efficiency, renewable energy...
  All these directives translated in the French legislation

At national level: a set of legislative acts for fixed and mobile sources
- Classified installations for the protection of environment, permit based on the use of BAT,
- Sectoral legislative acts such as for combustion installations (all size concerned from 2 MW), cement, glass, waste treatment, industrial activities,...
- Grenelle I and II acts defining objectives for improving environment
- Particulate matter plan reinforcing measures for PM reduction,
- National environment and health plan, focussing on PAH, POP, Chlorinated organic compounds, benzene...

At local level
- Local authority acts implementing Emission Limit Values for classified installations
- Regional Scheme for Air, Climate, Energy (SRCAE in French, RSCAE in English)
- Atmosphere Protection Plan (PPA in French, APP in English); application at the local level of the Particulate matter plan,
French perspectives on air pollution

Content of the presentation

✓ Air quality problems encountered

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National perspectives on air pollution

Air quality problems still existing : Example PM10

Situation of monitoring sites according to the PM10 daily mean value (50 µg/m$^3$ - not more than 35 days with exceedance per year)

Situation in 2010

Number of days with exceedance of the daily mean value (50 µg/m$^3$)
- No exceedance (8)
- Between 1 and 30 (312)
- Between 31 and 35 (7)
- More than 35 (31)
National perspectives on air pollution

Air quality problems still existing: Example PM10

Zoom in the Rhône-Alpes region: problems in Alpine Valleys as serious as in urban areas.

PM10 – number of days with a daily mean value higher than 50 µg/m³

Number of days with exceedance of the daily mean value

Situation of monitoring sites according to the NO₂ annual mean value (40 µg/m³)

Situation in 2010

Annual mean value:
- Less than 30 µg/m³ (327)
- Between 30 and 40 (70)
- More than 40 (50)
National and local reinforcement of the legislation

Sensitive Zones for Air Quality with reinforcement of prescriptions

Sensitive zones for air quality
A zone with exceedances of limit values or risk of exceedance (based on monitoring, on regional models and national model PREV’AIR)

In these zones, reinforcement of prescriptions taking into account both climate and air pollution objectives

Measures defined at the local level, based on local assessment and modelling studies
National perspectives on air pollution

Strategy: reinforced national and local measures

- **National level**
  - Particulate matter plan (PP in French, PMP in English)

- **Regional level**
  - Regional Scheme Climate Air Energy (SRCAE in French, RS CAE in English)

- **Local level**
  - Atmosphere Protection Plan (PPA in French, APP in English)
  - Zone for Priority Action for Air (ZAPA in French, ZPAA in English)

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Strategy: reinforced national and local measures

- **National level**
  - Particulate matter plan

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  - Regional Scheme Climate Air Energy (SRCAE in French, RS CAE in English)

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- **Particulate matter plan**
  - Set up of measures in domestic sector (wood combustion), transports, agriculture, industry
  - Non technical and technical measures promoted (such as optimisation of the use of incentives for wood domestic appliances)
  - Target reduction of PM\(_{2.5}\) emissions by 30% in 2015
  - Limit value not to be exceeded in 2015 for PM\(_{2.5}\): 25 µg/m\(^3\)
## National perspectives on air pollution

### Strategy: reinforced national and local measures

<table>
<thead>
<tr>
<th>National level</th>
<th>PLANS</th>
<th>Regional Scheme for Climate – Air – Energy (SRCAE in French)</th>
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<tbody>
<tr>
<td></td>
<td>Particulate matter plan</td>
<td>Orientations and objectives in terms of air quality and climate at the regional level</td>
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<tr>
<th>Regional level</th>
<th>SRCAE</th>
<th>Legal framework for local instruments</th>
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- Definition of sensitive zones
- Elaborated at regional level by region president and “Préfet of region”

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### Particulate matter plan

- **PLANS**
- **ZAPA**
- **PPA**

### National perspectives on air pollution

### Strategy: reinforced national and local measures

- **National level**
  - Particulate matter plan

- **Regional level**
  - SRCAE

- **Local level**
  - PPA
  - ZAPA

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### PPA: Atmosphere Protection Plan

- **PLANS**
- **PPA**

### National perspectives on air pollution

### Strategy: reinforced national and local measures

- **National level**
  - Particulate matter plan

- **Regional level**
  - SRCAE

- **Local level**
  - PPA
  - ZAPA

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**Development of the co-operation within the LRTAP Convention – St Petersburg 17-18 April 2012**
National perspectives on air pollution

**Strategy: reinforced national and local measures**

- **National level**
  - PLANS
  - Particulate matter plan

- **Regional level**
  - SCRAE

- **Local level**
  - PPA
  - ZAPA

**ZAPA Zone for Priority Action for Air**
Low emission zones for road traffic
8 feasibility studies being carried out
Extension to other cities after assessment of the efficiency of the system

French perspectives on air pollution

Content of the presentation

- **Conclusions**
Conclusions

- Reinforcement of national and local measures to improve air quality
- Effort sharing among sectors
- Combination of actions, both technical and non technical.
- National commitment for a reduction of pollutant emissions in the 2020 compared to 2005 from –4 to –55 % according to pollutants (Gothenburg Protocol in revision):
  - SO₂ : - 55 % / 2005
  - NOx : - 50 % / 2005
  - COVNM : - 43 % / 2005
  - PM₂.₅ : - 27 % / 2005
  - NH₃ : - 4 % / 2005

Thank you for your attention
Спасибо

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