

# CONFERENCE

## Applying European emissions trading and renewable energy support mechanisms in the Greek electricity sector

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### NATIONAL CLIMATE CHANGE STRATEGY

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# National Climate Change Strategy

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# UNFCCC

- Signature: June 1992 (Rio Summit)
- Ratification: April 1994 (L.2205/1994)
- EU objective : stabilization of 2000 emissions to 1990 level

# 1<sup>st</sup> National Climate Change Programme (1995)

- Objective : restriction of the total increase in CO<sub>2</sub> emissions during the 1990 – 2000 period to 15% ± 3%
- Abatement measures :
  - *Supply side*
    - ✓ Introduction of natural gas
    - ✓ Modernisation of existing system
    - ✓ Development of CHP generation systems
    - ✓ Large-scale exploitation of renewable energy sources
  - *Demand side*
    - ✓ Introduction of natural gas in the industrial, tertiary and residential sector
    - ✓ Energy conservation in buildings and manufacture units
    - ✓ Reduction of energy consumption in the transport sector

# Inter – ministerial Coordination

- Inter-ministerial Committee on climate change issues – 1996
- Coordinator : Ministry for the Environment

# Adoption of Kyoto Protocol

- December 1997, Kyoto, Japan
- Signature by EU and MS: April 1998
- Target for EU and MS: 8% reduction for 2008-2012
- EU burden sharing agreement (June 1998)

Obligation for Greece: Restriction of the increase of GHG's emissions to 25% for 2008-2012 (compared to 1990 emissions)

# National Strategy for Sustainable Development

- Climate Change Abatement
  - ✓ Reform and diversification of energy offer
  - ✓ Rational use and conservation of energy
  - ✓ Measures for the reduction of other greenhouse gases
  - ✓ Institutional measures

# 2<sup>nd</sup> National Climate Change Programme 2000-2010

- Adoption: May 2002
- Additional policies and measures
  - ✓ Electricity generation
    - Further penetration of RES
    - Operation of natural-gas power plants as base load units
    - Further penetration of CHP plants in the industrial and tertiary sectors



## ✓ Industry

- Further penetration of natural gas for thermal uses
- Promotion of RES
- Various energy conservation measures

## ✓ Residential and tertiary sector

- Improvements in the thermal behavior of existing buildings
- Promotion of RES
- Promotion of energy efficient appliances and heating equipment
- Further penetration of natural gas for space heating and cooling (tertiary sector)
- Other energy conservation measures

## ✓ Transport

- Measures concerning vehicles
- Measures concerning fuels used in transport
- Transport management

## ✓ Industrial processes sector

- Restructuring of the operation of chemical industries

## ✓ Waste management

- Flaring of landfill gas in all managed sites for urban centres > 100,000 inhabitants

## ✓ Agriculture

- Manure management systems
- Organic farming

- Result of the implementation of the additional policies and measures : increase of GHG emissions could be restricted to 24.5% by 2010
  - Within the Kyoto target

# Kyoto Protocol Ratification

## 2nd National Programme approval

- Ratification: May 2002 (L. 3017/2002)
  - ✓ National target: Restriction of the increase of GHG's emissions to 25% for 2008-2012 (compared to 1990 emissions) – Burden-sharing agreement
  - ✓ Competent Authority: Ministry for the Environment
  - ✓ C C Programme to be approved by the Council of Ministers
- Approval of 2<sup>nd</sup> National Programme: Council of Ministers, February 2003

# Monitoring of Implementation

- Development of monitoring system  
( 3<sup>rd</sup> Community support Framework)

## Flexible Mechanisms – Emissions Trading

- Transposition of EU Directive  
(Inter-ministerial working group)
- National Allocation Plan: December 2004

Thank you for your attention !