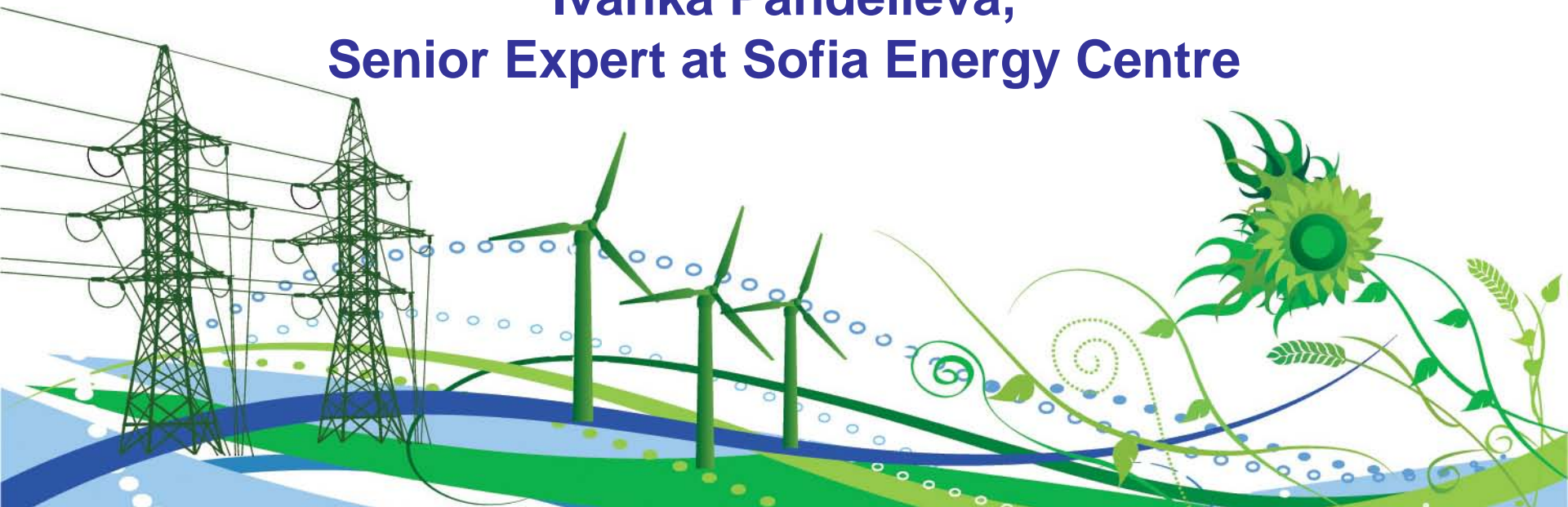


Sustainable Energy Technology at Work - SETatWork

ETS in Bulgaria – Status and Perspectives

Ivanka Pandelieva,
Senior Expert at Sofia Energy Centre



Bulgaria

ETS Country Overview

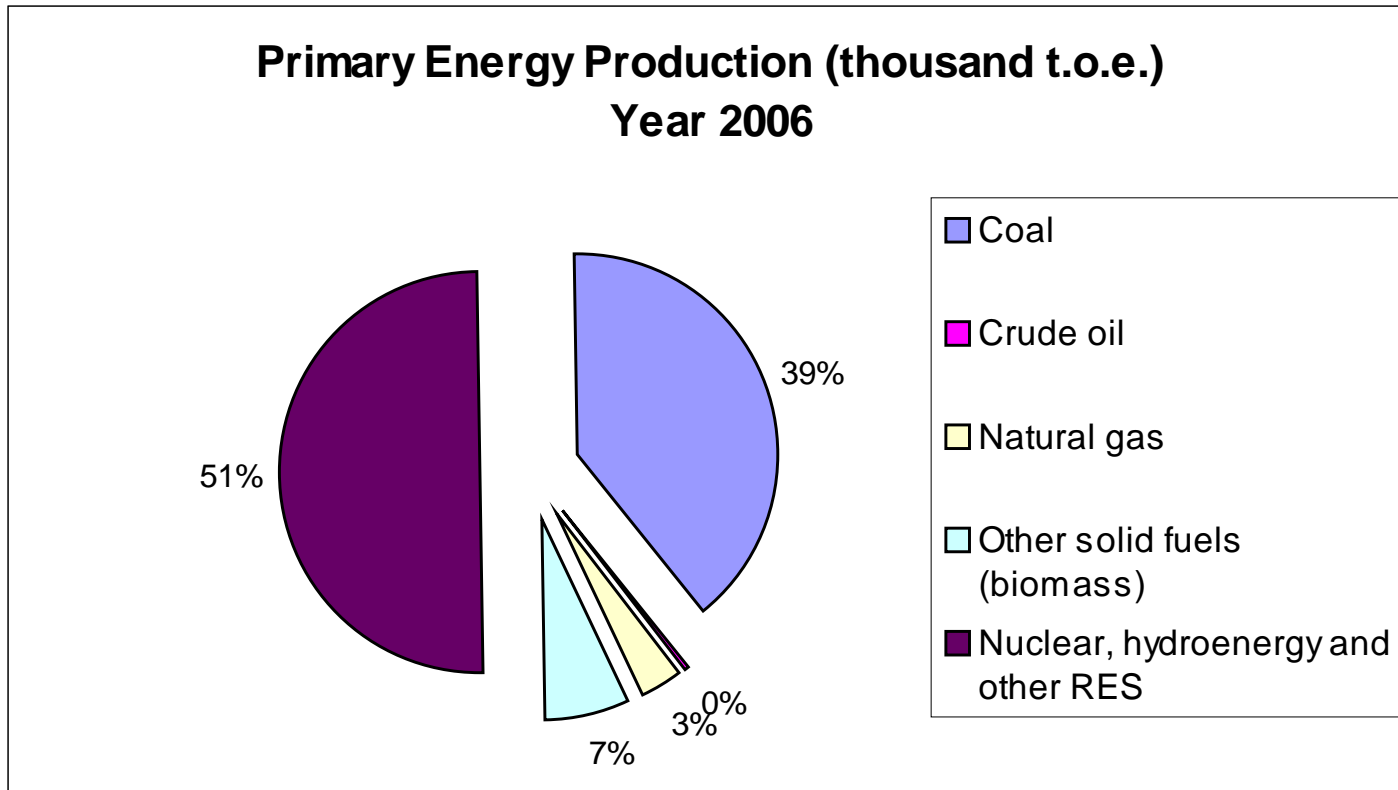
Legislative framework

- **International:**
 - Ratified the UN Framework Convention on Climate Change and Kyoto Protocol;
 - Annex A and Annex B Party under Kyoto Protocol, eligible for JI and EU ETS. Required secondary legislation (ordinances and methodologies) at place;
- **Local:**
 - Energy Act – priorities for electricity from RES and CHP;
 - Renewable and Alternative Energy Sources and Biofuels Act – provides for encouragement of generation of electricity from renewable and alternative energy sources

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- ETS Country Overview

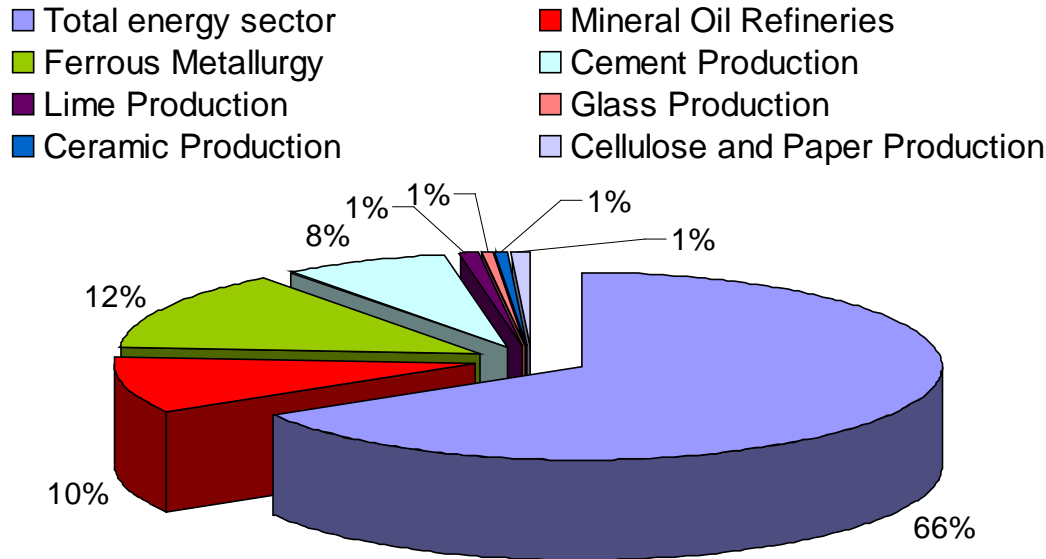
National Energy System of Bulgaria Dominated by nuclear and coal



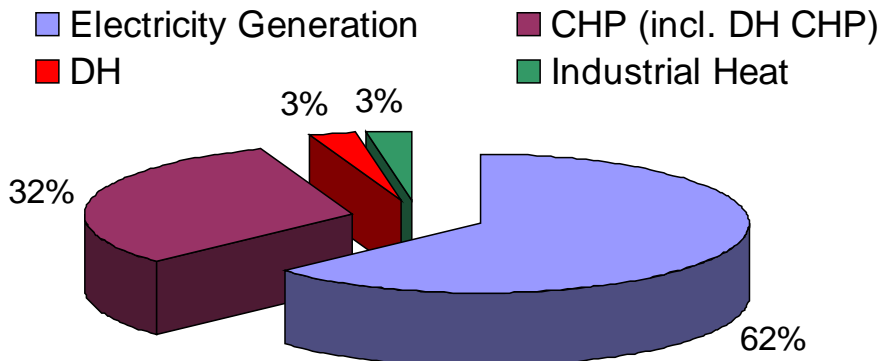
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ETS Industry Overview

Allowances by sector (%)



Allowances by energy production type (%)



- Current status of NAP 2008-2012 – second version under preparation, soon to be submitted to the EC;
- Activities covered: energy activities, production and processing of ferrous metals, mineral processing industry, cement and lime production, glass production, ceramic production, cellulose and paper production;

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- Need & Opportunities 1

By sector

- ETS practically haven't started due to the delay in NAP 2008-2012 (the first variant, the dispute and now the second variant);
- Energy companies in more favourable position, transfer the costs associated with ETS in the local and regional energy prices; provisions for CO₂ allowances purchases;
- Metallurgic companies face international competition, hit by the world crisis and have decline in output, consequently leading to less CO₂ emissions; Close down for bankruptcy of the biggest ferrous metallurgy plant Kremikovtsi (almost 90 % of sector allocations and 9,2 % of overall allocations).
- Cement industry – similar situation.

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- Need & Opportunities 2

By topic

- Energy management systems integration in existing management systems;
- Environmental management systems;
- Monitoring and adapting energy strategies;
- All topics related to energy efficiency:
 - ✓ Step-by-step introduction to Energy Efficient Design of projects (EED);
 - ✓ Energy efficiency measures for existing manufacturing processes;
 - ✓ Energy efficiency measures for utility systems;
 - ✓ Energy efficiency measures for industrial buildings;

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- Need & Opportunities 3

- Topics related to Carbon Trading:
 - ✓ Trading EU Allowances;
 - ✓ Carbon Market Information;
 - ✓ Identifying and implementing in-house energy savings
- Biomass and Bioenergy; Industrial Combined Heat and Power (CHP); Fuel Switch

- Good Practice/Case examples

Good Practice examples identified so far:

Two JI Projects:

1. CHP in DH Bourgas, under MoU with Denmark with 493 570 CO₂ emissions savings till 2012
2. CHP in DH EVN Plovdiv, under MoU with Holland, with 847 401 CO₂ emissions savings till 2012

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- SETatWork intervention

Main objectives achieved so far:

- Getting to know the main players and their different situation;
- Collecting information about level of awareness and training needs;
- Spotting stakeholders and potential measure to further exploit.

General comment: With the new government the NAP 2008-2012 has been sped up and ETS is expected to start in the beginning of 2010.

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- Energy efficiency measures

- Many local ETS players have provided funds for CO₂ purchase in their accounts. The main objective - to interact and convince them to introduce SET measures with these funds instead of just buying CO₂ credits;
- Identified Energy Efficiency Measures and Technologies:
 - ✓ ETS, carbon market information – lack of information and awareness of the principles and ways of functioning;
 - ✓ Systems for environmental management related to ETS market;
 - ✓ Energy management systems;
 - ✓ Biomass utilisation;
 - ✓ Industrial CHP.

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- Match-Making activity

Delay in matchmaking event due to NAP 2008-2012 uncertainty and the local situation of main players.

- Planned date – February 2010;
- Scope: local ETS players: big coal-fired TPPs, DH companies, metallurgic and cement industries.
- Topics: energy/environment management systems, carbon trading, ETS, Industrial CHP, biomass.



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- Stakeholders & Initiative

- National Electricity Company- owner of big TPPs on lignite: carbon market information;
- AES Maritsa East 1 TPP: carbon market information;
- TPP Rousse/DH Rousse - a system for environmental management related to ETS market, a special program for ecological undertakings:
- DH Razgard – energy management systems, biomass utilisation, industrial CHP.

Find out more about the activities of SETatWork
and access the SETatWork Database at:

www.SETatWork.eu

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