

INFORSE on EU energy and climate policy

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International Network for Sustainable Energy

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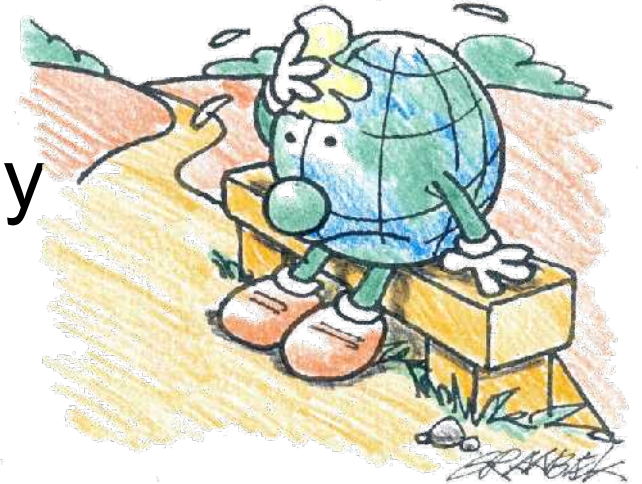
We need to limit global climate change to 2°C (or better 1.5°C)

Only then can we avoid catastrophes for nature and humanity (from IPCC, supported by many others)

This requires about 40% greenhouse gas reductions by 2020 in EU, phase out of EU fossil fuel use before 2050 (such as 2040) and many other actions.

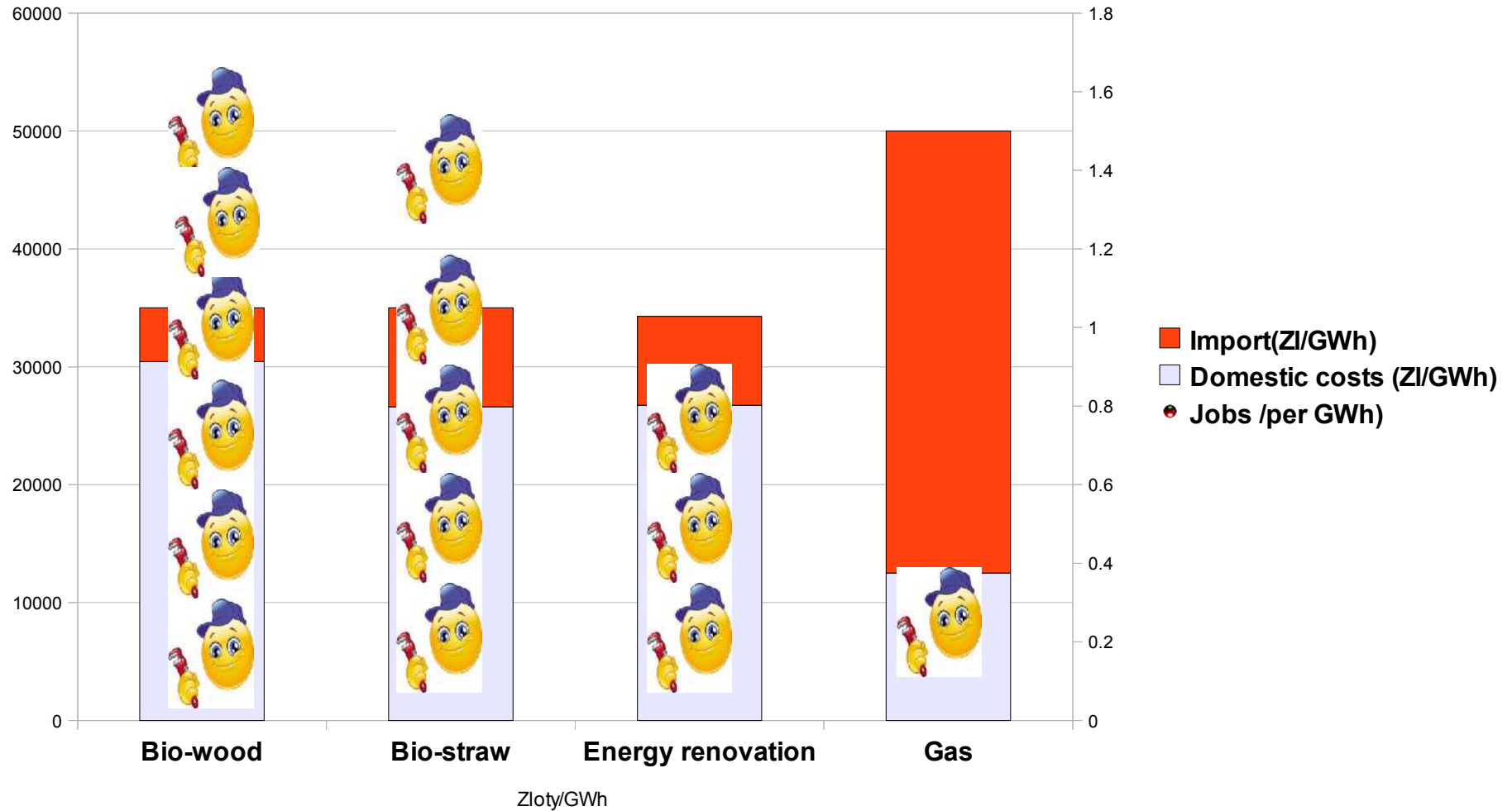
EU can lead the way (who else?)

EU countries also have energy supply problems, - a good reason to act



Employment and imports

Costs and jobs of energy options, Poland



Solutions

- Set targets. EU climate (greenhouse gas reduction) targets 20/30% by 2020 and 80-95% by 2050. INFORSE: 40% in '20, 100% in fuel use by 2040 (but still other emissions from agri.
- energy efficiency – set standards – improve houses & industry
- transition to an efficient and smart energy supply system
- a sustainable transport system & high taxes on pollution, electricity and hydrogen as main energy carriers, more trains
- renewable energy - biomass, solar, wind, geothermal, hydro/wave, used in sustainable ways
- all solutions should be sustainable (biomass, etc.)
- focus on local use, social issues, sufficiency



European Climate/Energy Policies

In 1987 the “Brundtland” report “Our Common Future” told us we are in environmental trouble

In 1988 the EU Internal Market started

In 1989 the “Wall” came down

In 1992 the Rio Conference, Climate Convention

In 1997: Kyoto Protocol

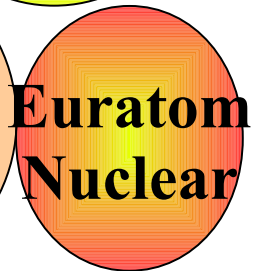
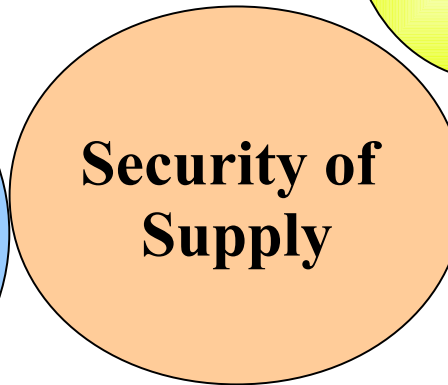
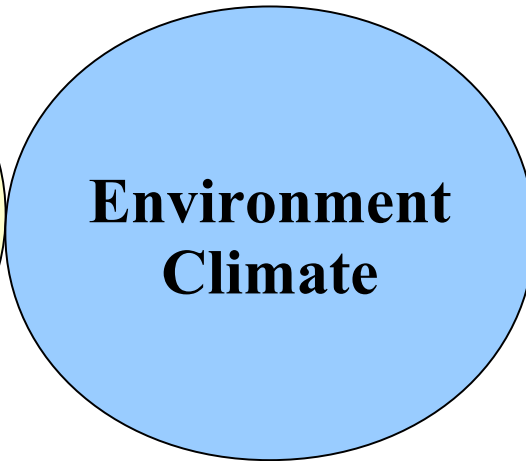
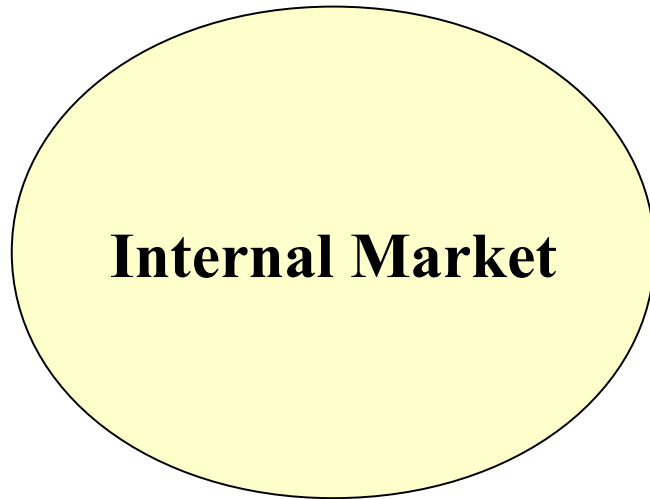


European Climate/Energy Policies after 2010

- **EU 2020-20%-20%-20% policy agreed 2020:**
 - **20% (30%) less greenhouse gases by 2020 (or buy credits from others)**
 - **20%(25%) renewable energy by 2020**
 - **20% energy efficiency by 2020**
- **Stable or decreasing energy consumption, energy efficiency is key.**
- **EU decided to reduce GHG 80-95% in 2050**
- **Kyoto Protocol Runs out 1/1 2013**

EU Climate & Energy Policy

**Energy
(Lisbon)**



**Intern
electr
mar-
ket
dir**

**Intern
gas
mar-
ket
dir**

**CO₂
emm-
quota
dir**

**RE-
directiv
e**

**Build
EPBD
dir**

**Eco-
design
dir**

**CHP
dir**

**Energy
Service
dir**

**Energy
Label-
ling
dir.**

**Guide
lines
state
aid**

**Support:
FP7
IEE
nuclear
Struct-funds
E-Europe.
Dev.Assist.**

EU Emissions Trading(EU-ETS)

EU countries could not agree energy/CO₂ tax.

Emission allowances for free until 2012, but from 2013 power sector etc. must buy allowances

Too many allowances: too low prices (10-15€/ton), because of questionable CDM + large allocations, problem can continue till 2020

The system needs limits of allowances/a floorprice, limits of CDM, devaluations of old allowances carried over to 2013.

► revision is needed, limit of emissions proposed by Commission (DG Climate) in Roadmap2050

Renewable Energy Directive

- **Targets '20: EU 20%(+13%), national targets**
- **10% renewables in transport (biofuels, el.)**
- **Biofuels sustainability: CO₂ emission reduction 35%; 50-60% in 2017, sustainable**
- **Efficiency of heat pumps, bio-boilers**
- **National targets for Renewables**
- **Remove administrative barriers, inform consumers, training**
- **INFORSE: 25% target is achievable, proper implementation is needed, sustainable biofuels and biomass, stop penalise electric trains**

Renewable Energy Directive

- **Countries made plans in 2010**
- **Plans show high national targets, more than 20% RE by 2020**
- **BUT not all plans seem realistic**
- **Big discussion on sustainability of biofuel, indirect land-use change: reports delayed, but EU Commission this week approved sustainability schemes for biofuels**
- **Sustainability of solid biomass also an issue, discussion is coming (we support forest certification – FSC, not PEFC)**

EU is Driving Energy Efficiency

- Energy Performance of Building's Directive
- Ecodesign of Energy using/related Products
- Energy Service Directive (9% reduction till '17)
- also Energy Labelling, IEE, 7FP, structural funds, EUSEW, organise cities and Mayors, etc.
- **New Energy Eff. Plan May 8, 2011, 20% by'20**
- **Proposed Directive on Energy Efficiency**
 - ➔ **Public Bodies must energy renovate 3%/year**
 - ➔ **Energy efficiency obligations for power companies**
 - ➔ **National heating/cooling plans, and much more**

Energy Performance of Buildings

Energy requirements of renovations, all bld.

New buildings shall be "near zero energy buildings" after 2020, public from 2019, national plans for zero energy buildings.

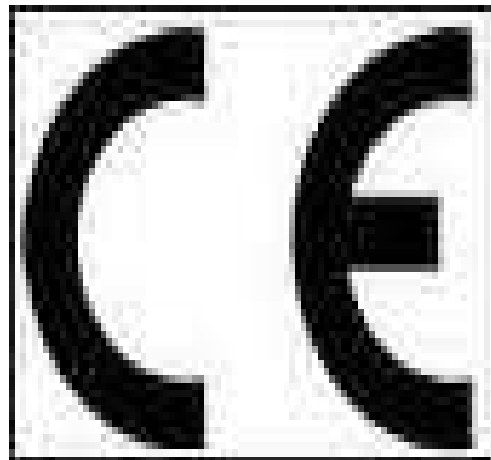
From 2012 energy new buildings must not be significantly below cost-optimal levels of efficiency.


National requirements for building parts, such as heating systems, windows, etc.

INFORSE supports proper implementation, additional & stronger national actions.

Ecodesign

- Only the EU Commission can set requirements for products in EU (internal market)
- Good Requirements is a cost-effective way to save energy
- So, the EU Commission MUST set sustainability requirements for products
- Ecodesign of Energy Using/Related Products
- Labelling Directive



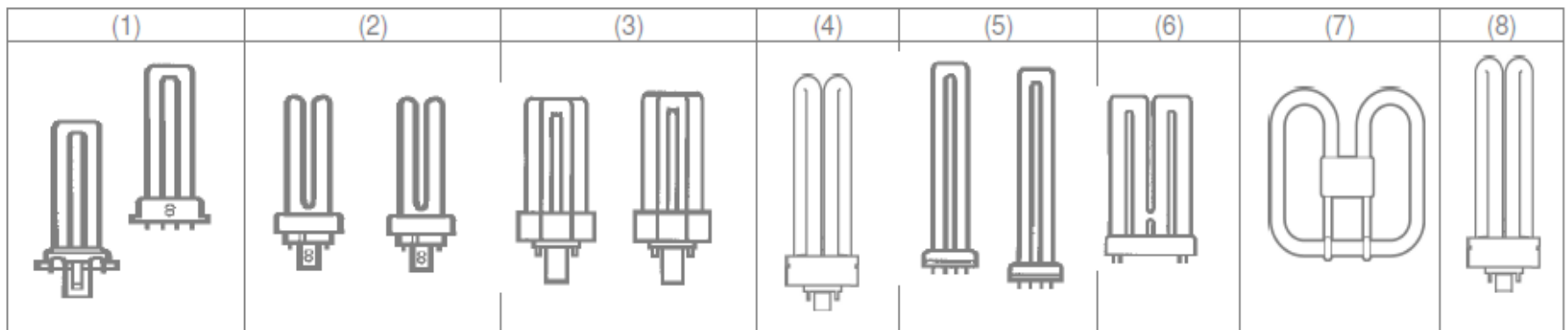
Energy		Fridge-Freezer
Manufacturer Model		
More efficient A B C D E F G Less efficient		A
Energy consumption kWh/year <small>(Based on standard test results for 24h)</small>		325
<small>Actual consumption will depend on how the appliance is used and where it is located</small>		
Fresh food volume l Frozen food volume l		190 126 ***
Noise (dB(A) re 1 pW)		
<small>Further information is contained in product brochures</small>		
<small>Norm EN 153 May 1990 Refrigerator Label Directive 94/EC</small>		

Ecodesign Directive

- Regulation for minimum efficiency & labelling

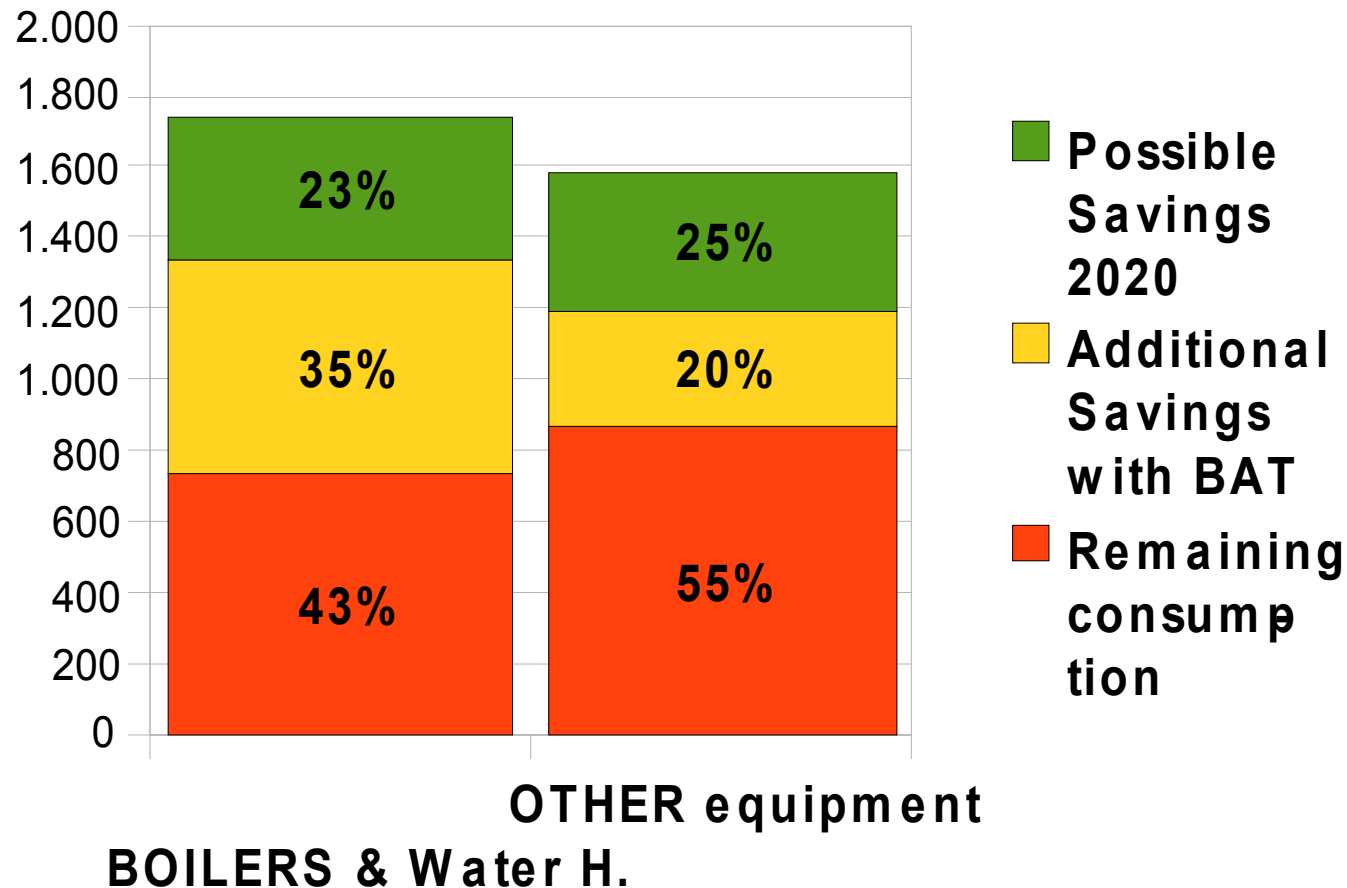
First regulations approved on standby (in force Jan'10), TV set-top boxes, in force in 2010, phase out of incandescent light bulbs, started Sept'09, office and street lighting, TV, fridges, boilers, airconditions,

~20 more products coming



Ecodesign + labels: a lot to save

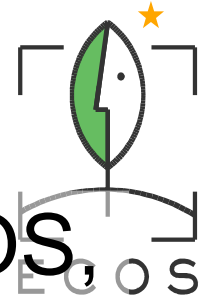
TWh primary energy



Decided by EU for all internal market:

→ simple, efficient, centralised, hard to follow & understand

NGOs roles in Ecodesign



- INFORSE-Europe, WWF, EEB, CAN-E, ECOS, ECEEE & consumers take active part
- We promote most efficient solutions with lowest environmental impacts
- NGOs often in opposition to (some) industries
- NGOs often the environmental experts,
- Coolproducts Campaign (you can join emails), www.coolproducts.eu



Energy Efficiency Directive (EED)

Proposed June 2011 – **NEW, not agreed**

Replaces Energy Service Directive, countries shall set energy eff. obligations for en. suppliers

Replaces CHP directive, require implementation of cost effective district heating and CHP

Require countries to act against “split incentives” between renters and owners of e.g. houses

More actions in 2014 if 20% target is not in reach

INFORSE (draft): clearer obligations, more CHP, earlier actions if 20% by 2020 is not in reach

EU Support (nice, not the most important)

FP7 supports research, development,
demonstration, supplementary activities

Intelligent Energy for Europe, call every year, 6
times as many applications as projects

Sustainable Energy Technology(SET) plan

LIFE, national process, energy just small part

Interreg, energy just small part

Structural Funds, energy just small part

INFORSE: Transition to renewable energy must
be priority EU in support.

Infrastructure Plan (proposal, nov 2010)

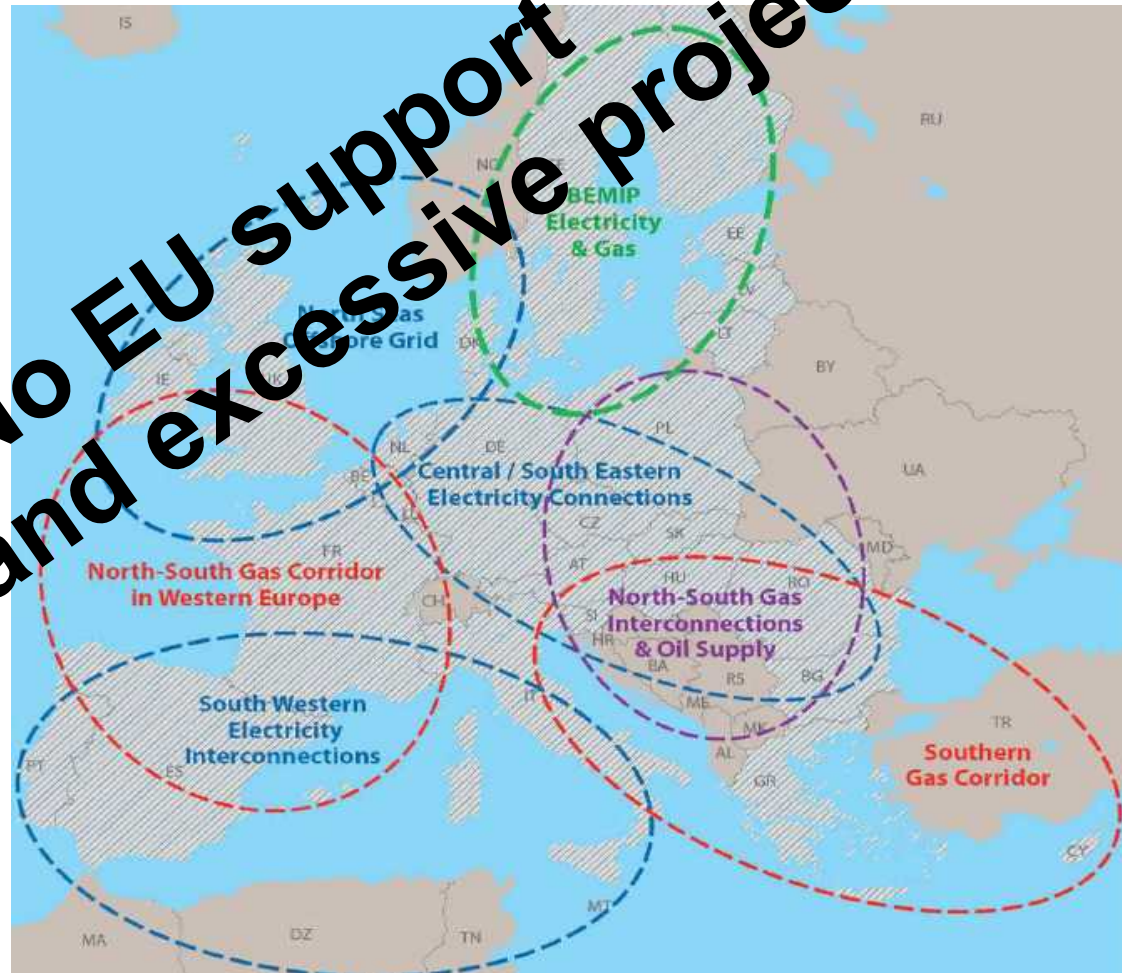
Propose subsidised investments in priority infrastructure corridors

Positive description of smart grids, but probably no money

Maybe EU-owned infrastructure?

Decisions for EU budget from 2013?

INFORSE: No EU support for fossil and excessive projects



More EU Policies Interlinked

Electricity and gas market directives: priority of renewables, energy poverty

Energy Taxation

Guidelines for state aid

External policies: largest donor for Africa, cooperate with Ukraine, Turkey, etc.

EURATOM, nuclear support, also fusion

Social issues, gender, SMEs, agriculture, and more

Local solutions easily get lost in EU

The next (Danish?)EU Energy Deal

Agreement on Energy Efficiency Directive

Agreement on new EU energy taxation directive

Increase EU'20 GHG target from 20% to 25-30%

Reduce Emission Trading Allowances to stabilise quota price

Greener EU budget from 2013

**Can that succeed in the spring of 2012
or will Copenhagen flop again?**

We can make a difference

- See www.inforse.org/europe
- Get involved



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Thank you



Read:
www.inforse.org/europe



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