

# Energy Efficiency: central piece of the transformation of the economy



by Claude Turmes, Vice-President  
Greens in the European  
Parliament

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# We are in a system crises

- Resource inefficient
- Dependant on finite resources
- Private consumption more important than general interest investments

# 20-20-20: Future EU Energy Mix

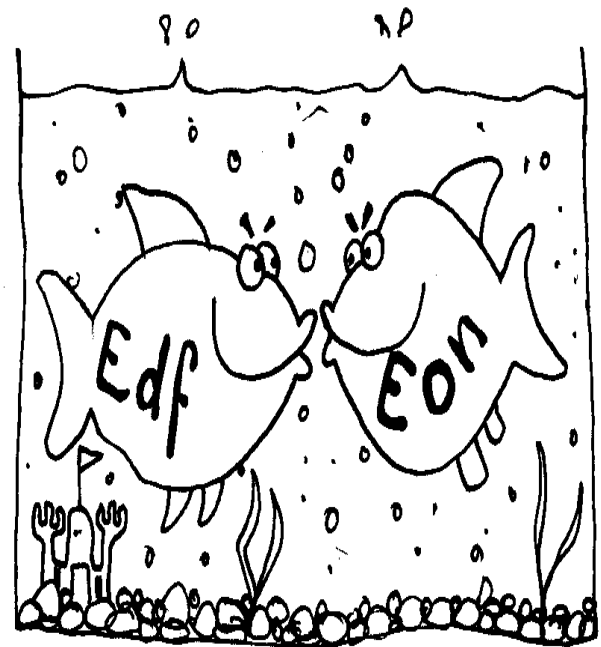
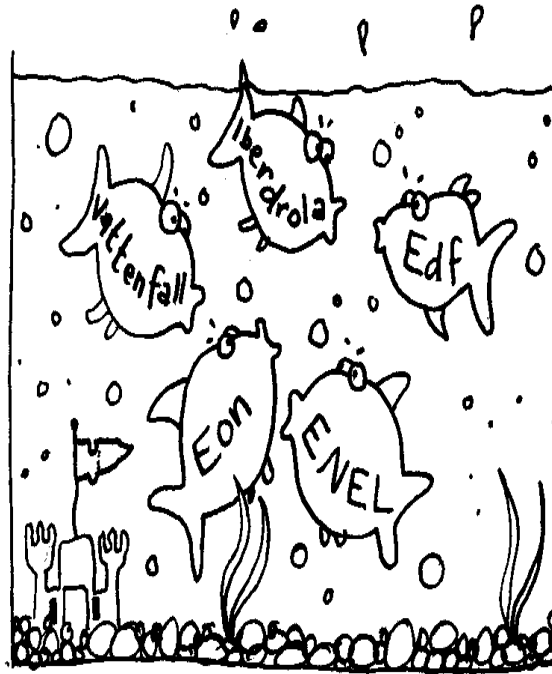
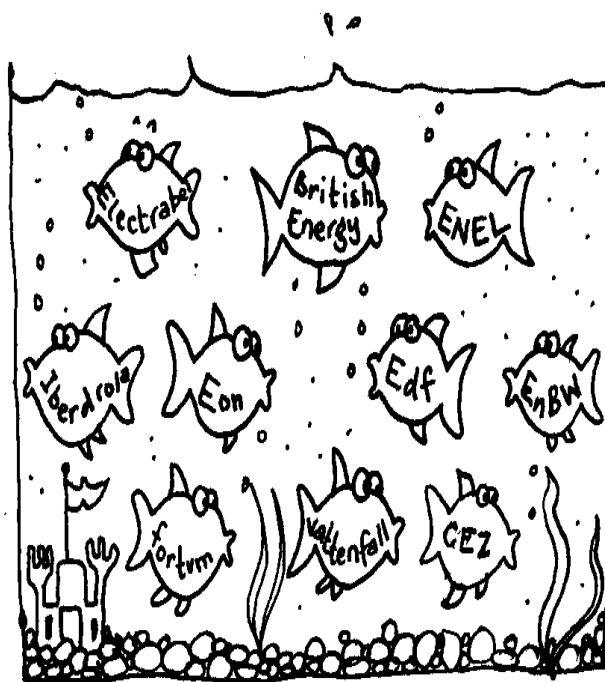
<b>EU-27 Mtoe</b>	<b>2005</b>	<b>Baseline oil price \$100/bbl</b>	<b>NEP oil Price \$100/bbl</b>	<b>EU Scenario Consistent with the 20% efficiency target in 2020</b>	
<b>Primary Energy Demand</b>	<b>1705</b>	<b>1903</b>	<b>1672</b>	<b>1474</b>	<b>(- 20%)</b>
<b>Oil</b>	<b>666</b>	<b>648</b>	<b>567</b>	<b>500</b>	<b>(- 25%)</b>
<b>Gas</b>	<b>445</b>	<b>443</b>	<b>345</b>	<b>•</b>	<b>(stable)</b>
<b>Renewables</b>	<b>123</b>	<b>221</b>	<b>274</b>	<b>274</b>	<b>(+ 23 %)</b>
<b>Solids</b>	<b>320</b>	<b>340</b>	<b>253</b>	<b>160</b>	<b>(- 53%)</b>
<b>Nuclear</b>	<b>257</b>	<b>249</b>	<b>233</b>	<b>120</b>	<b>(- 52%)</b>

# Where is the EU on energy efficiency? (1)

- Target: 20% better but NON-BINDING
- Legislation:
  - Buildings: new legislation under negotiation
  - Appliances/offices equipment:
    - new regulations under negotiation
    - Fight over labelling regime
  - Industry/SME: no specific efficiency targets outside CO2 ETS
  - Transport: no overall sector target, weak CO2-cars legislation, weak EUROVIGNETTE

# Where is the EU on energy efficiency? (2)

- Horizontal issues:
  - Financing: very little money at EU and national level in the Economic Recovery plans
  - Obligations on energy retailers: full electricity de-regulation with no efficiency obligations (exemption: UK)
  - Innovation catalysors: not enough staff in most Member States
  - Lobbying: supply dominates demand



Big fish, small pond

# “To Do” list for energy efficiency?

- Education of leaders: energy efficiency as priorities of priorities
- Organise an efficient lobby (NGOs, efficiency industry players, legislators)
- TARGETS AND STANDARDS,...
- Organisational innovation as an equal priority for R&D as technical innovation
- Making communication more SEXY

# EU energy/transport policy – new legislation

- Energy efficiency (buildings, appliances,...)
- Renewable energies (national action plans, joint projects)
- EU ETS (full auctionning)
- Transport (CO<sub>2</sub> and cars, EUROVIGNETTE,...)
- Internal Market (new tools for regulation, regional market integration)



# Buildings:

- NEW BUILD goes Zero and plus energy
  - Binding legislation with mid-term targets
  - Large scale demonstration programs
  - The cheap zero energy as a gift for emerging economies
  - Solar cooling as a key concept
- EXISTING go DEEP renovation
  - Large scale demonstration programs
  - Innovative financing instruments (revolving funds, loan guarantee funds, third part concepts,...)

# Appliances, offices equipment, electronics, smart grids

- Binding minimum standards
- Clear A to G labeling
- Massive green government procurement
- Professional and targeted communication
- Finance global network of “device” experts
- Bi-directional smart metering as a  
information and load shading tool

# Industry and SME

- More than CO2 trading regimes necessary
- Minimum Standards and Labeling for “Horizontal technologies”
- Processing benchmarks and requirements
- Bonus of managers linked to energy (resource) performance

# Passenger Transport

- Global cooperation on “greener” cities
- Stringent 2020 targets for efficient cars
- Hybrid-electric as part of a transport chain
- car-sharing instead of car owning
- High speed train as a real competitor to intra-continent flight and road traffic
- “sector” approach to transport in CDMs

# Goods transport

- More regional economy
- Strengthen ship and rail
- New efficiency standards for all goods transport modes
- New dispatching concepts for big cities
- Tax flight transport

# A new business model for energy utilities

- Re-regulation of the power sector
  - Least cost planning and efficiency obligations on energy retailers
  - Revival for CHP
  - Environmental Performance Standards
  - From low carbon concept to a clear hierarchy: 80 – 80 – 80 in 2050
- End use energy – renewables – efficient use of fossil (gas)

# More than Kyoto: Global cooperation needed on efficiency

- Networking on standard setting
- Networking on organisational innovation
- Networking among cities and regions
- Networking on new business models

# The CHANGE we need

- Resource intelligence as new economic paradigm
- More focus on the long term
- From “go shopping” attitude to “get involved” attitude



Be an actor for positive  
change!

claude.turmes.lu  
Greens.eu