Energy Efficiency: central piece of the transformation of the economy

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

<table>
<thead>
<tr>
<th>EU-27 Mtoe</th>
<th>2005</th>
<th>Baseline oil price $100/bbl</th>
<th>NEP oil Price $100/bbl</th>
<th>EU Scenario Consistent with the 20% efficiency target in 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Energy Demand</td>
<td>1705</td>
<td>1903</td>
<td>1672</td>
<td>1474 (- 20%)</td>
</tr>
<tr>
<td>Oil</td>
<td>666</td>
<td>648</td>
<td>567</td>
<td>500 (- 25%)</td>
</tr>
<tr>
<td>Gas</td>
<td>445</td>
<td>443</td>
<td>345</td>
<td>• (stable)</td>
</tr>
<tr>
<td>Renewables</td>
<td>123</td>
<td>221</td>
<td>274</td>
<td>274 (+ 23 %)</td>
</tr>
<tr>
<td>Solids</td>
<td>320</td>
<td>340</td>
<td>253</td>
<td>160 (- 53%)</td>
</tr>
<tr>
<td>Nuclear</td>
<td>257</td>
<td>249</td>
<td>233</td>
<td>120 (- 52%)</td>
</tr>
</tbody>
</table>
Where is the EU on energy efficiency? (1)

• Target: 20% better but NON-BINDING

• Legislation:
  – Buildings: new legislation under negociation
  – Appliances/offices equipment:
    • new regulations under negociation
    • 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 (CO2 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 Kioto: 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!

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