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03/15/2001 06:06:40 PM

Record Type: Record

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Subject: FW: Measures

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- > Just to give you a nonexhaustive flavor off the top of my head (there is
- > likely someone at DOE who can fill you in on US situation).
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- > Greenhouse gases: carbon dioxide, methane, nitrous oxide, ozone,
- > halocarbons (CFCs, HCFCs, PFCs, etc.)
- >
- > Human contribution: industrialization, intensive agriculture,
- > deforestation, transportation, development, waste disposal (e.g. methane
- > from landfills)
- >
- > Mitigation: reducing emissions and/or expanding sinks
- > \* Reduction in fossil fuel burning emissions: conservation, energy
- > efficiency (lighting, building design and materials, motors, computers,
- > aircraft engines)
- > \* Transportation system and infrastructure management and improvement
- > \* Power plant heat rate improvement
- > \* Electricity production and supply efficiency (many exciting things
- > in development)
- > \* Fuel switching (natural gas, renewables, solar, wind, geothermal,
- > biomass, hydro, nuclear)
- > \* Technology transfer and aid to developing world
- > \* Methane recovery from landfills, coal mines
- > \* Livestock waste management
- > \* Methane leakage from aging natural gas pipelines and delivery
- > systems
- > \* Reduction in halocarbon usage (e.g. EPA just cut recent deal with
- > electronics companies to eliminate use of PFC solvents)
- > \* Reduce nitrous oxide through changes in agricultural methods and in

- > nylon manufacture
- > \* Reforestation
- > \* Agricultural biotechnology (increase yields and corresponding CO2 uptake while limiting deforestation)
- > \* Mechanical "sequestration," e.g. capture CO2 and inject it into the sea or underground (many experiments underway)
- > \* Etc. . . .
- >
- > Tools other than direct regulation/ban, mandatory cap and trade,
- > taxes/emissions fees:
  - > \* Education and bully pulpit
  - > \* Sector voluntary commitments
  - > \* Promote voluntary standards
  - > \* Public reporting (like Toxic Release Inventory--would identify most inefficient actors and create peer pressure to reduce)
  - > \* Product labeling/seal of approval programs
  - > \* Leverage government procurement clout
  - > \* Remove barriers in tax code to capital stock replacement with more expensive leapfrog technology
  - > \* Investment incentives
  - > \* Subsidies for research and development
  - > \* Purchase subsidies
  - > \* Foreign assistance
  - > \* Promote environmental management systems
  - > \* Structural reforms (e.g. demand side management in regulated energy markets)
  - > \* Indirect benefits from existing regulatory programs (e.g. efficiency spurred by SO2 allowance trading program)
  - > \* State and local initiatives (land use, rules for industrial parks)
  - > \* Transportation planning, infrastructure, investment
- >
- > Adaptation (often not discussed)
  - > \* Move development away from coastal areas
  - > \* Developing water supplies and conservation in dry areas
  - > \* Develop new crop strains
  - > \* Address population growth
  - > \* Land use planning and urban development
- >
- > All of these would be in keeping with our VOLUNTARY commitments under the UN Framework Convention on Climate Change.
- > The Energy Policy Act of 1992 and other subsequent programs follow through on some of this (there are a lot of very successful government programs that could be bolstered--Green Lights, Energy Star, Golden Carrot, Motor Challenge, Climate-Wise, the list goes on . . .).
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