



Renewables and Waste Statistics at the IEA

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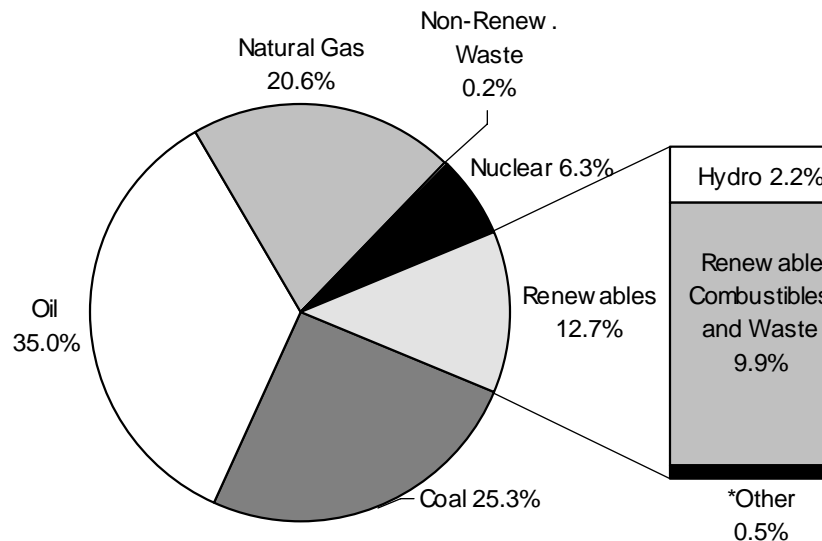
February 25, 2008

Overview:

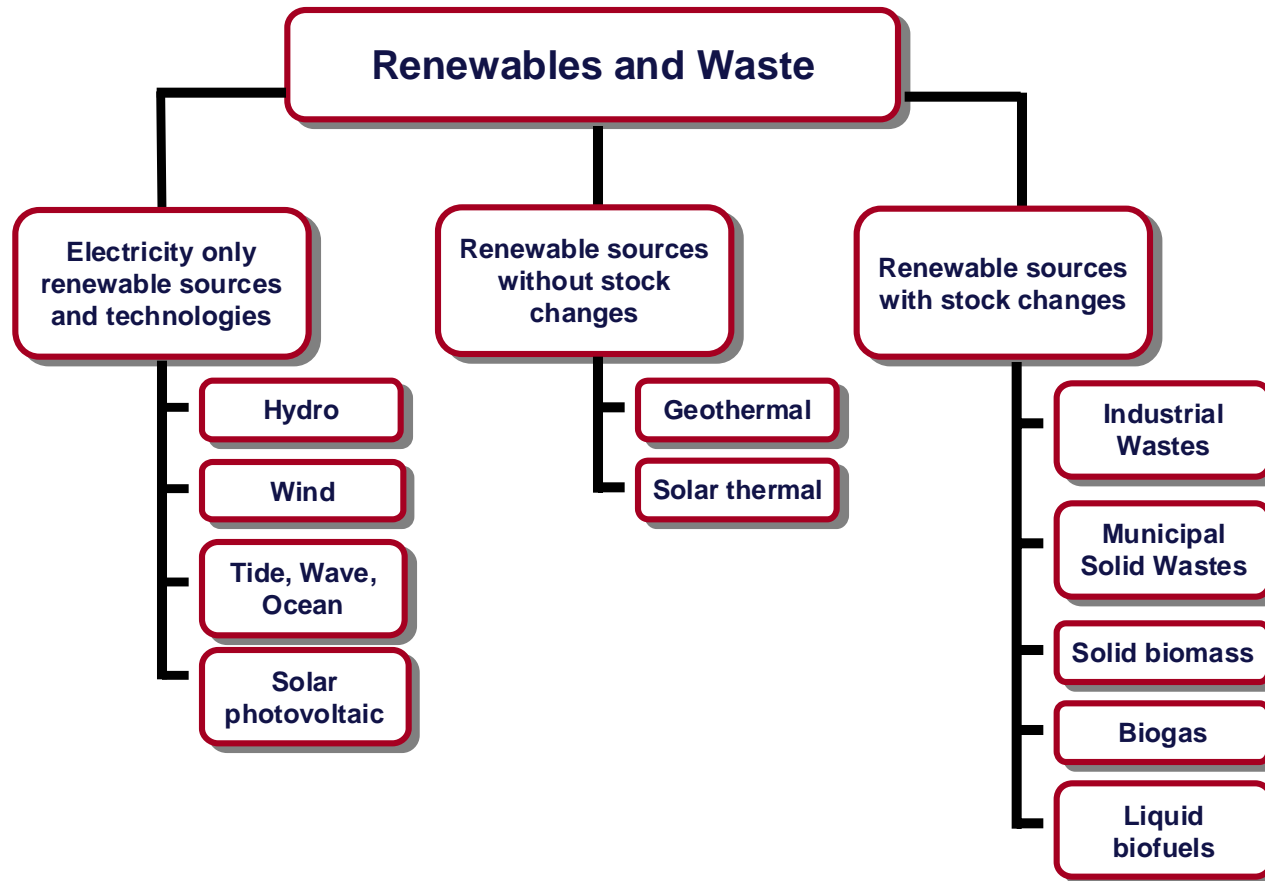
- Importance of renewables
- IEA's Renewables and Waste Questionnaire
- Challenges beyond the questionnaire

How important are renewables?

- 12.7% of world's TPES are renewable sources (2005 data)
- Solid biomass plays the most important role (75.6%)
- Annual growth of renewables is 1.8% (same as for TPES)

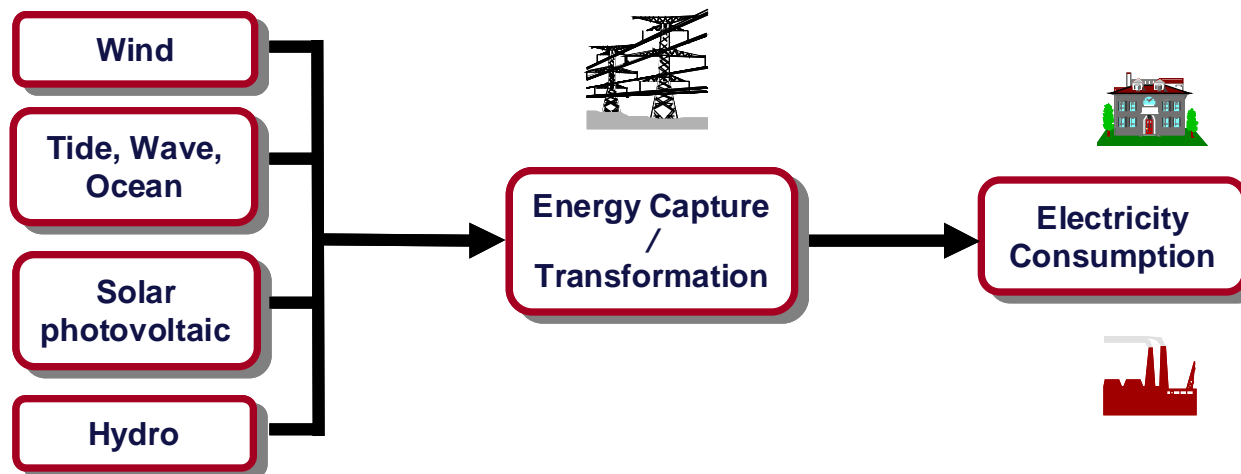


Classification of renewables and waste at the IEA



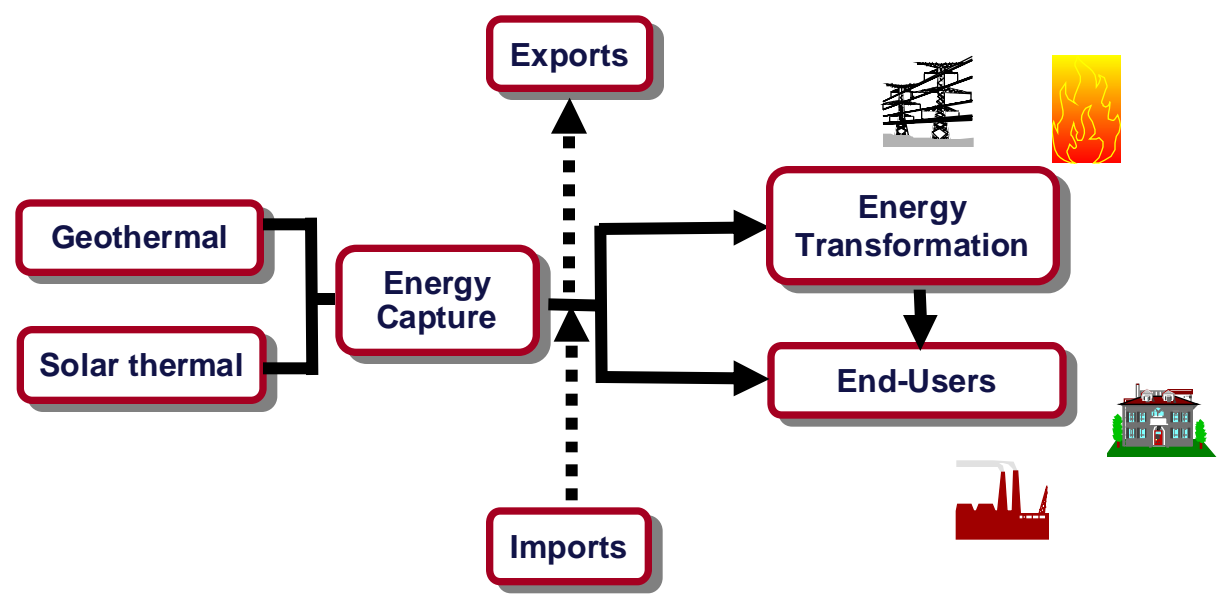
Electricity-only technologies

- No trade data collected for these technologies in Renewables Questionnaire

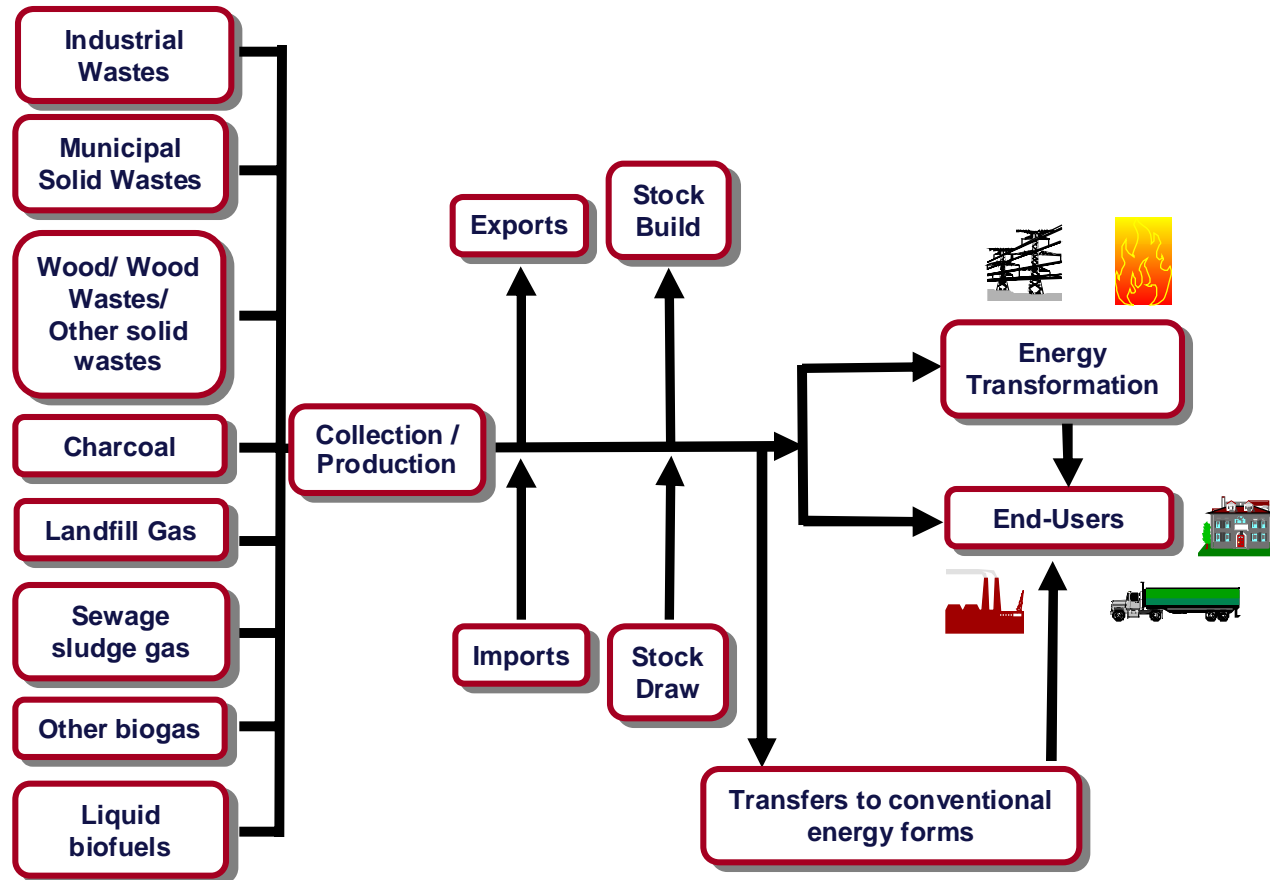


Renewable sources without stock changes

- Possibility to report trade, but none of the countries does it



Renewable sources with stock changes



Workshop “Development of meaningful statistics for sustainable bioenergy trade.”

Challenges beyond the questionnaire

- No origin/destination trade data in renewables questionnaire
 - Problem how to define what is for energy purposes (e.g. wood, ethanol...)
- Balance is done for wood/wood wastes/other solid wastes, i.e. we do not collect separate imports/exports figures for wood, vegetal/wood waste, black liquor and other solid biomass
- Oil questionnaires (both monthly and annual) collect detailed data on liquid biofuels but not the renewables questionnaire
 - Data quality varies from country to country
 - Data reporting is not always complete
 - Issue of data confidentiality

Initiatives beyond the questionnaire - The Joint Wood Energy Enquiry (UNECE, FAO, IEA, EU)

- Data from 12 European and 2 northern American countries
- Conclusions:
 - harvested wood for energy generation significantly higher than reported in official statistics
 - most of the wood for energy purposes is residues from the forest products industry and recovered wood (pallets, construction wood, furniture)
 - wood for energy purposes directly from forest has a small role but is important in Europe
 - in developed countries there is not much opportunity to increase the indirect wood energy – focus should go on direct wood energy (e.g. energy plantations)



Thank you!