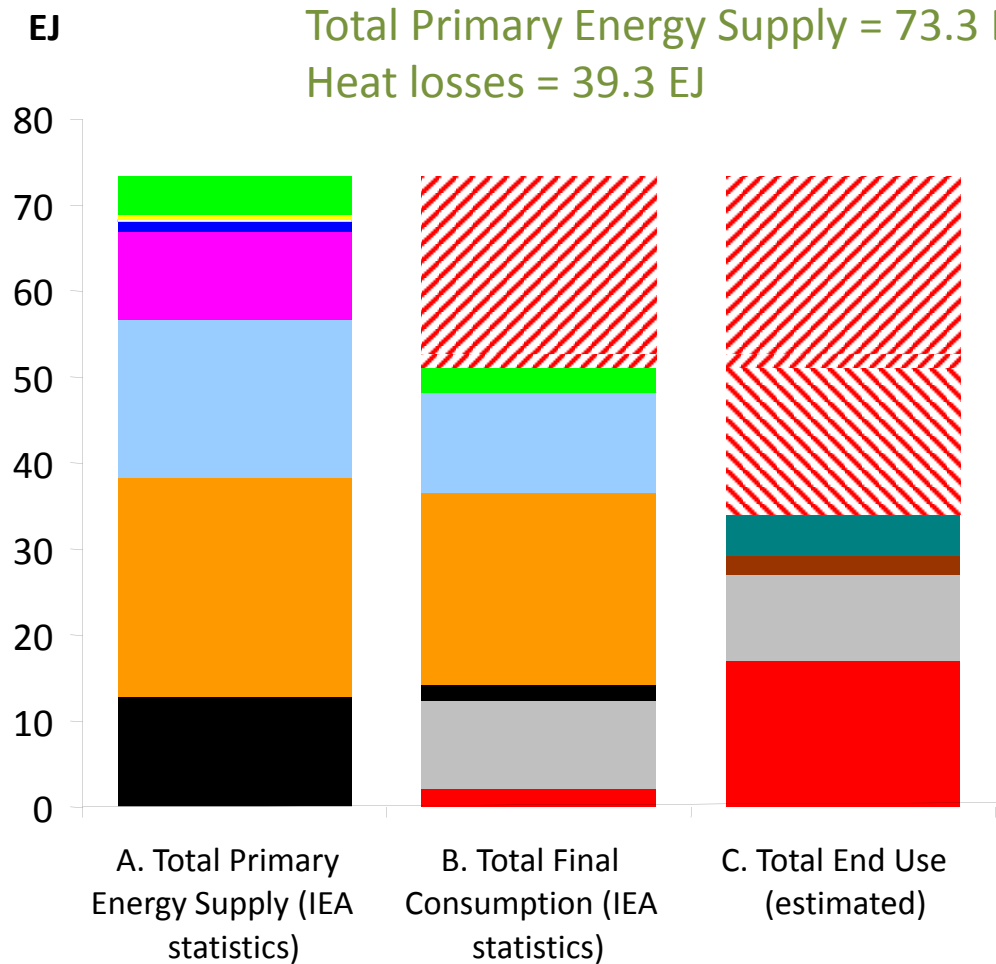


From eco-buildings to eco-districts






Ec*heat 4 cities

"New Directive - New Energy for Housing? –
Clearing the way for local, participatory energy transition"
Brussels, September 12th 2011

European Union - 27 during 2008
 Total Primary Energy Supply = 73.3 EJ
 Heat losses = 39.3 EJ

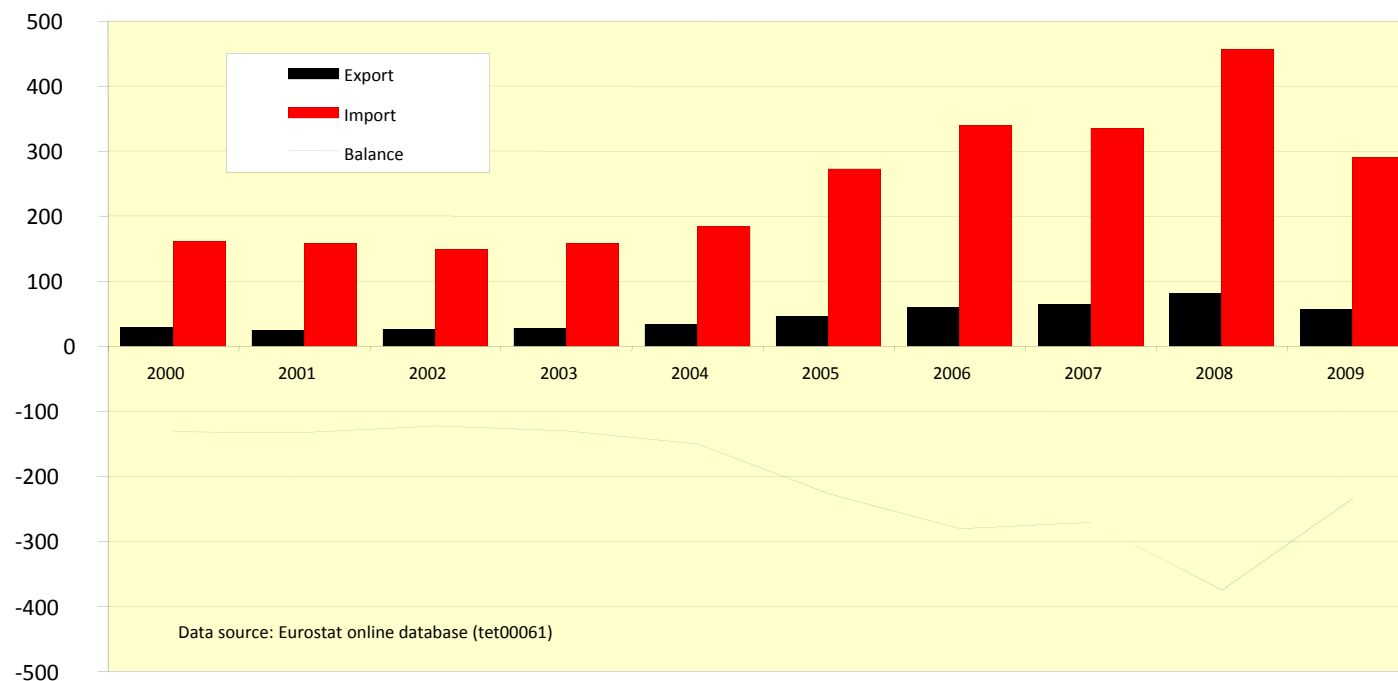


Source: ecoheat4eu

-  Heat losses, end use inefficiency
-  Heat losses, central conversion (energy sector)
-  Heat losses, local conversion (consumers)
-  Combustible renewables and waste
-  Solar/wind/other
-  Geothermal
-  Hydro
-  Nuclear
-  Natural gas
-  Petroleum products
-  Coal and coal products
-  Non-energy use
-  Transportation
-  Electricity
-  Heat

Instead of using waste heat

Billion €

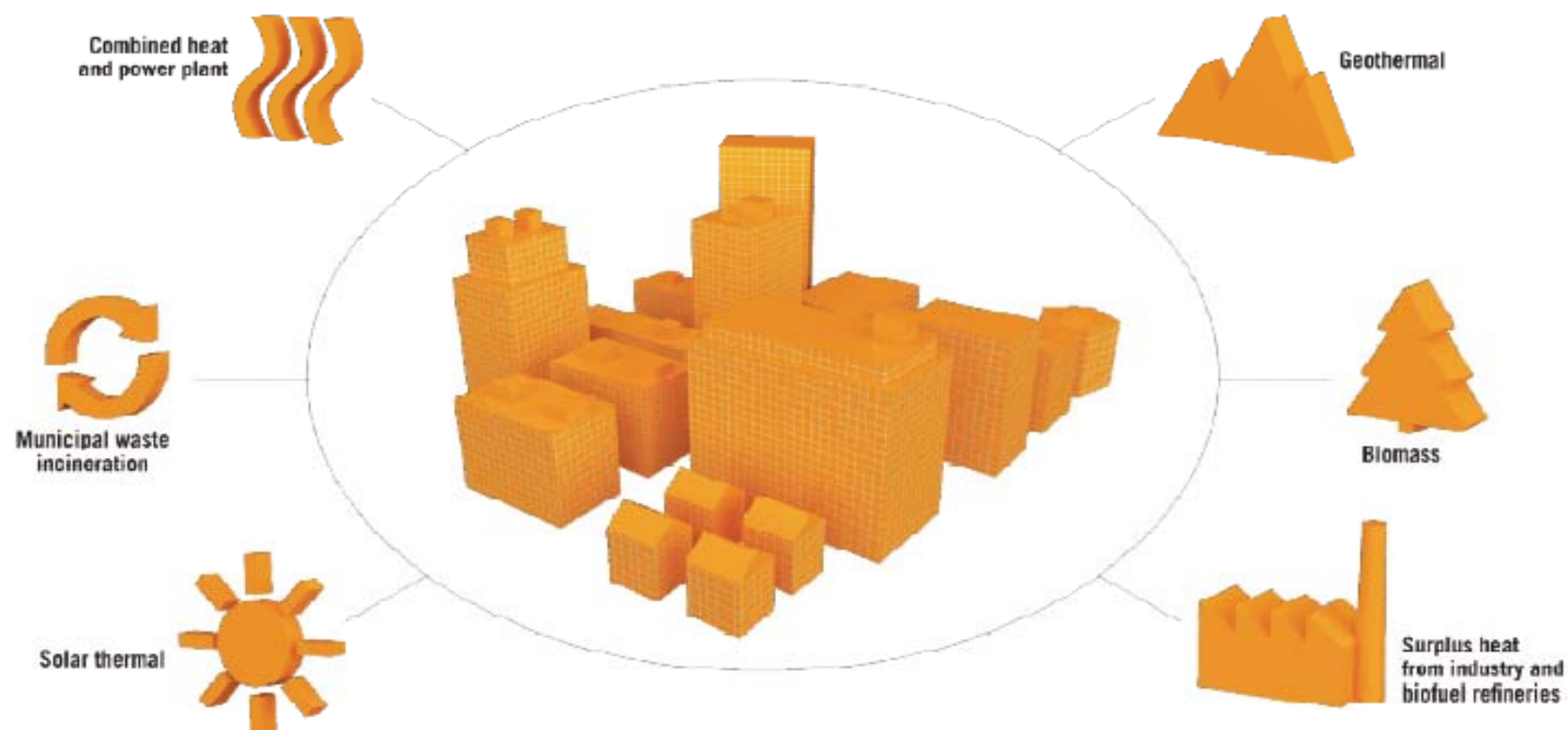


...we waste up to 380 bn EUR/year

Urban heating & the energy challenge

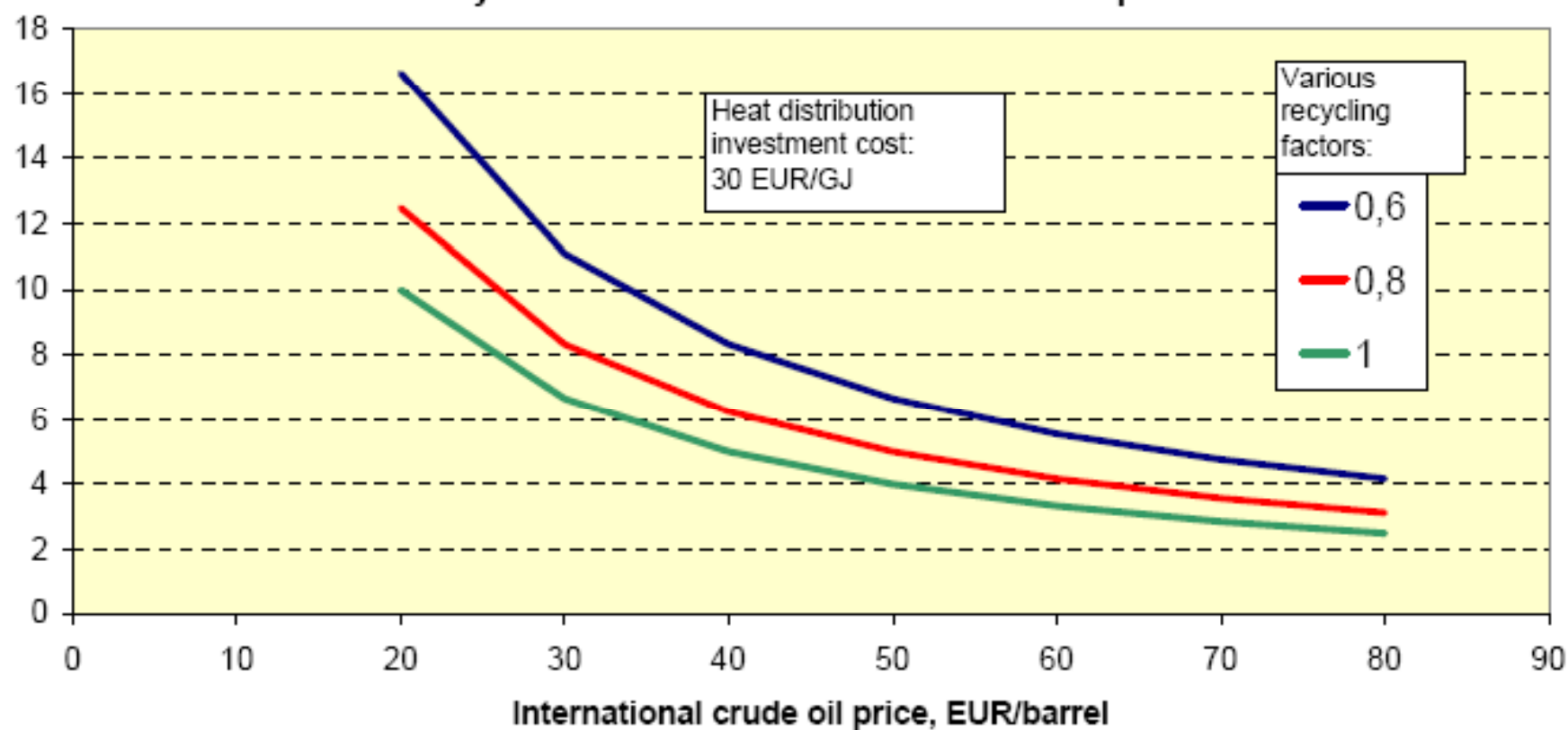
- Heat & cooling are responsible for half of the energy consumption
- Half of the consumption takes place in urban areas
- No decarbonised, low-energy society with a high quality of life without a much stronger focus on heat
- Solutions are as diverse as the local conditions
- Municipal planning / involvement of local authorities is key for success
- Primary energy savings and a long-term perspective must be the measure of all success
- **District heating and cooling (DHC) holds a significant potential for cost-effective, customer-friendly solutions**

Urban sustainable heat



**Overall profitability of recycling heat losses
into district heating systems**
by investment in heat distribution versus import of fossil fuels

Payback, years



Ec*heat 4 cities

Setting up a voluntary European-wide
labelling scheme for DHC and providing
guidance for cities

www.ecoheat4cities.eu

Interested? Join us on 19 and 20 September in Delft, or on 26
and 27 April 2012 in Copenhagen!

Thank you for your attention!



www.euroheat.org

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