



EUROPEAN BIOMASS ASSOCIATION

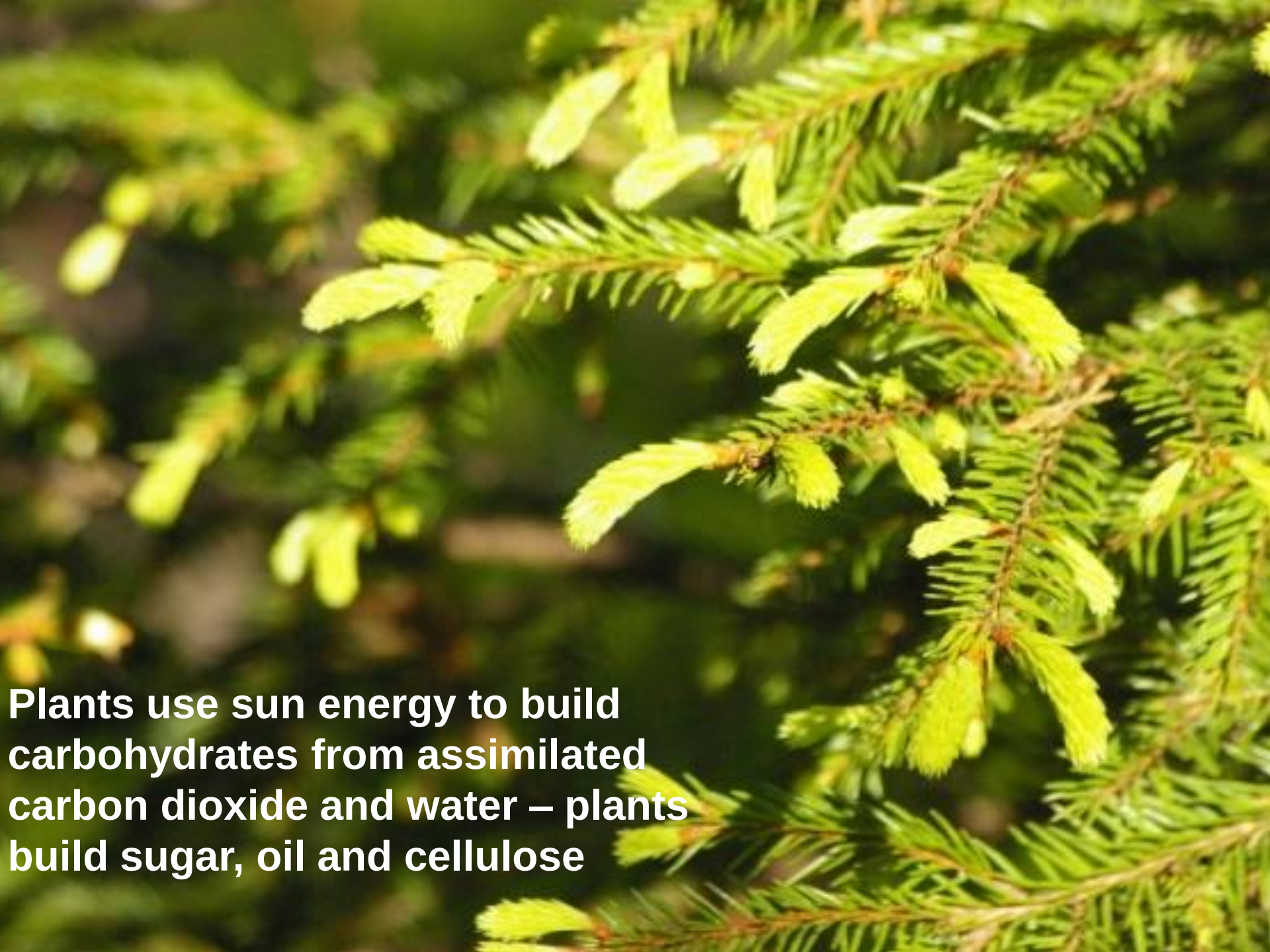
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How competitive are renewable heating and cooling systems?

Gustav Melin
President

European Parliament, 19 April 2011



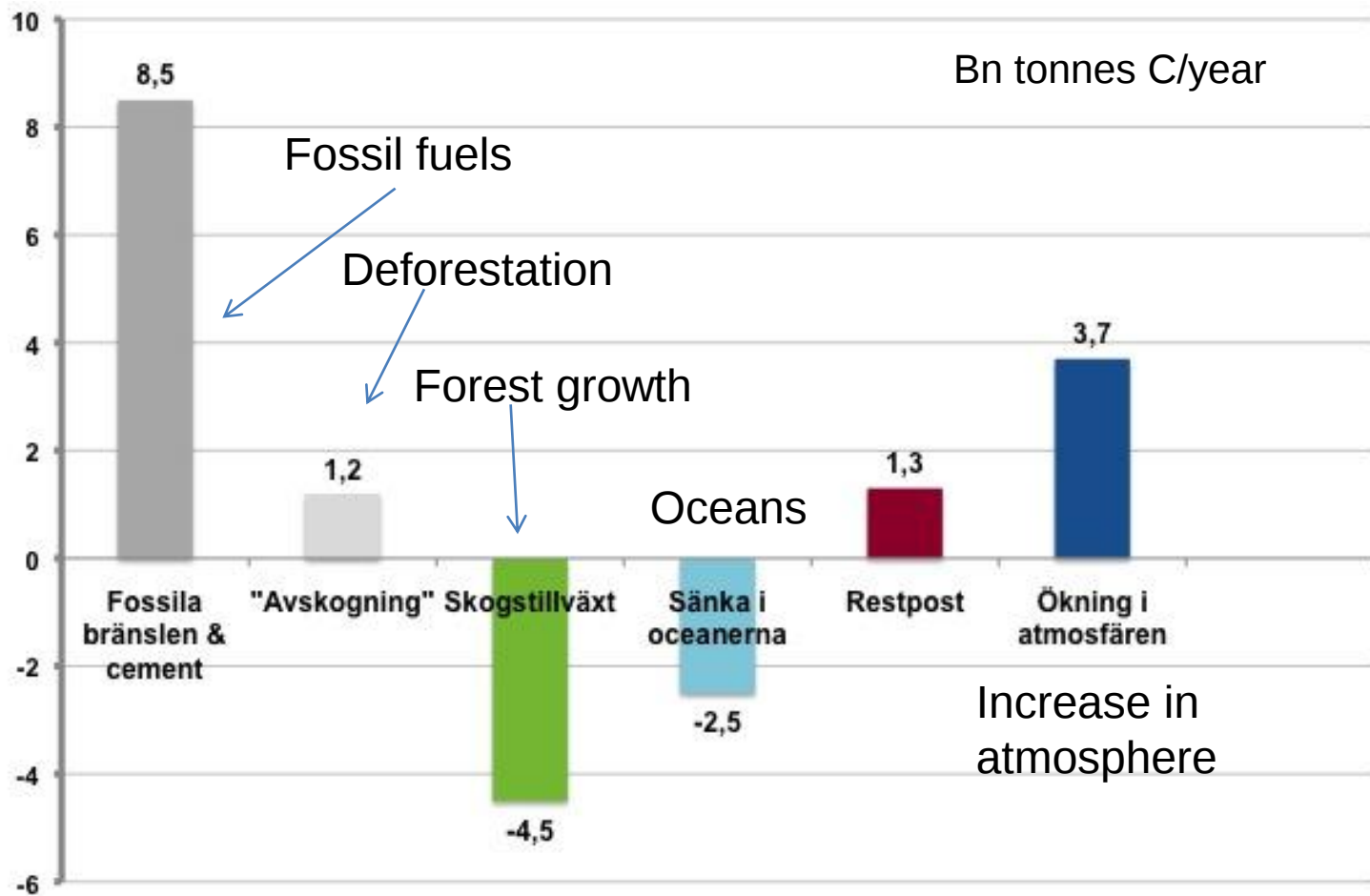


**Plants use sun energy to build
carbohydrates from assimilated
carbon dioxide and water – plants
build sugar, oil and cellulose**



Plants give food, feed, materials and energy to man and animals. Bioenergy in recirculation, is as renewable as wind and sun.

Global emissions and sinks of carbon in 2008

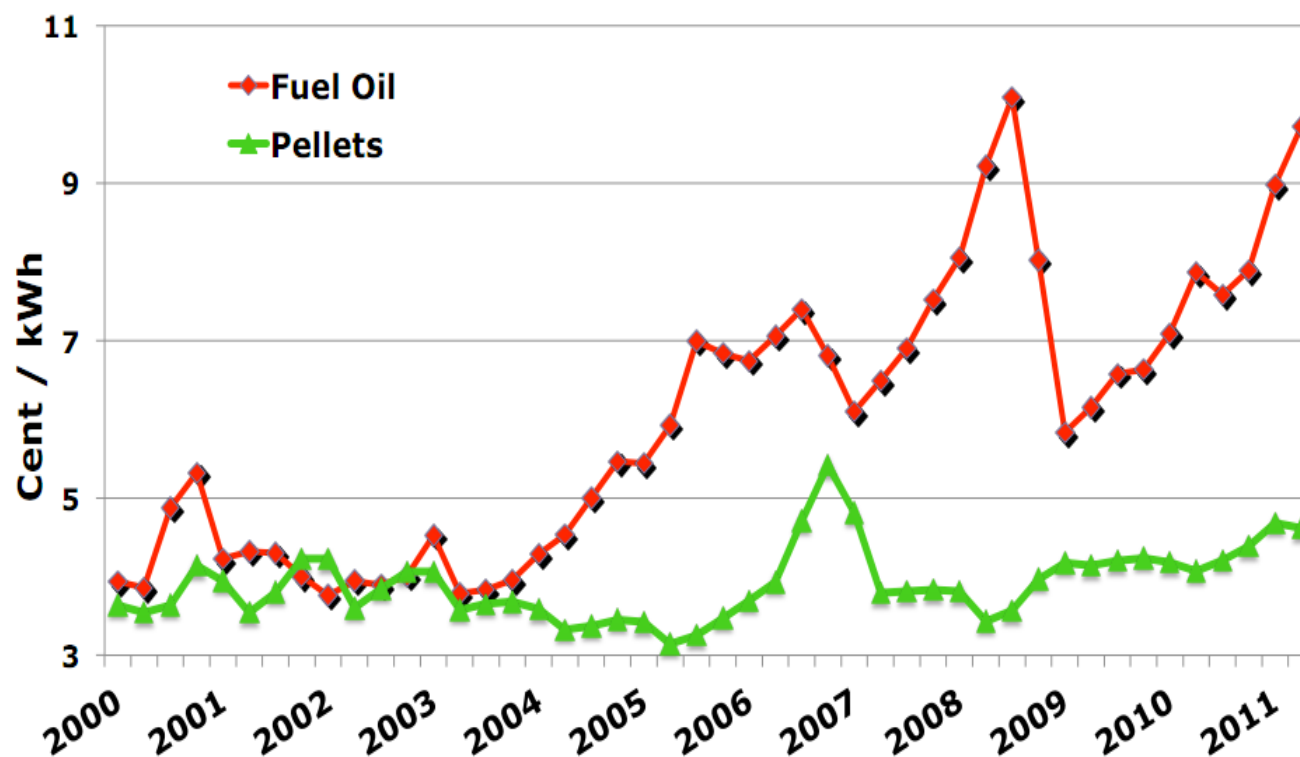


**Compared to fossil fuels RES are
characterized by high upfront investment
but low operational costs**

- Support to investments make sense
- Investment in heating/cooling infrastructure is particularly important
- RES are helping to fight energy poverty

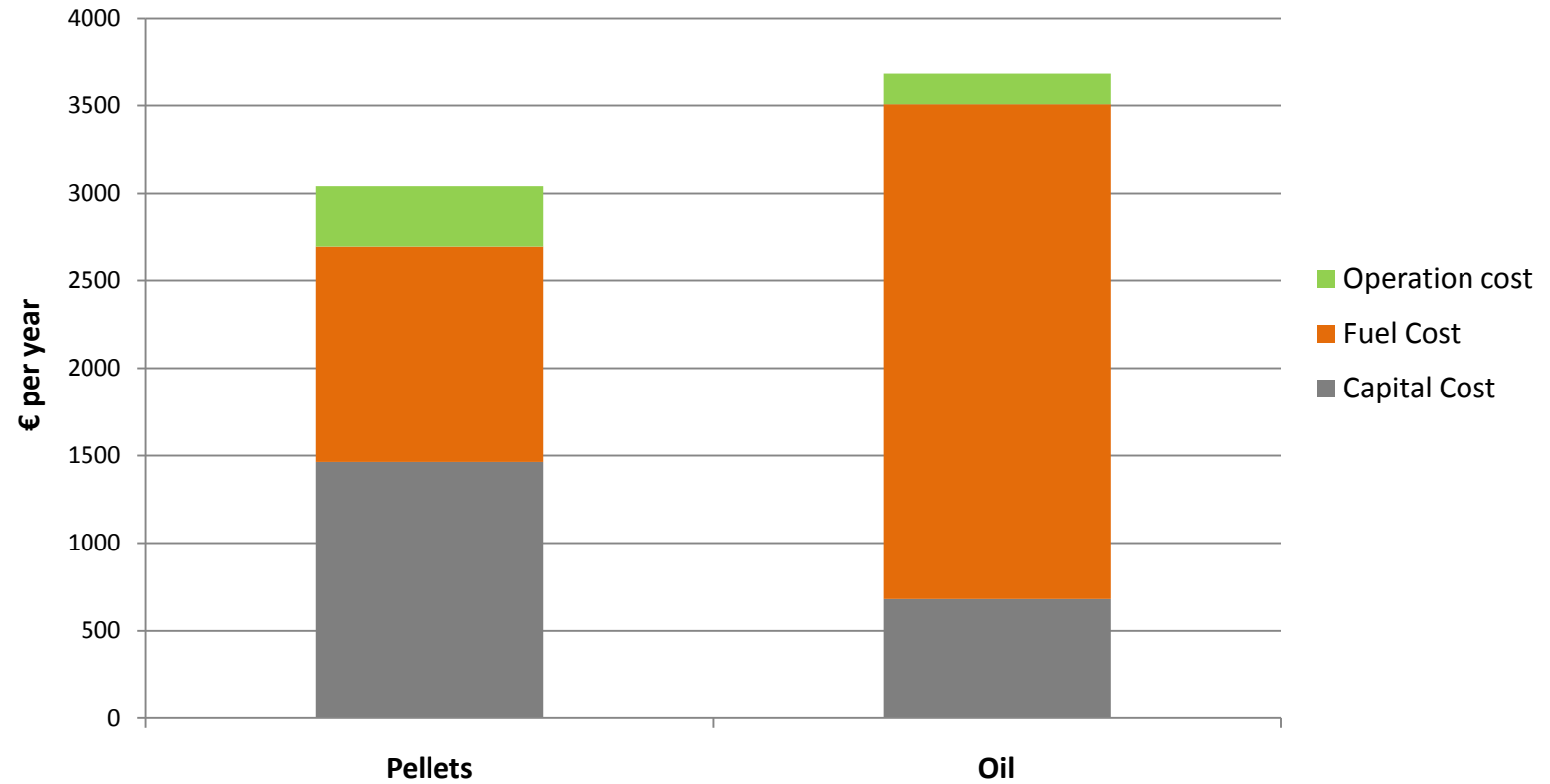
Quarterly Prices: Fuel Oil - Pellets

pro»pellets
Austria



Source: IWO, BMWJF, Genol, proPellets Austria; Date: April 6, 2011

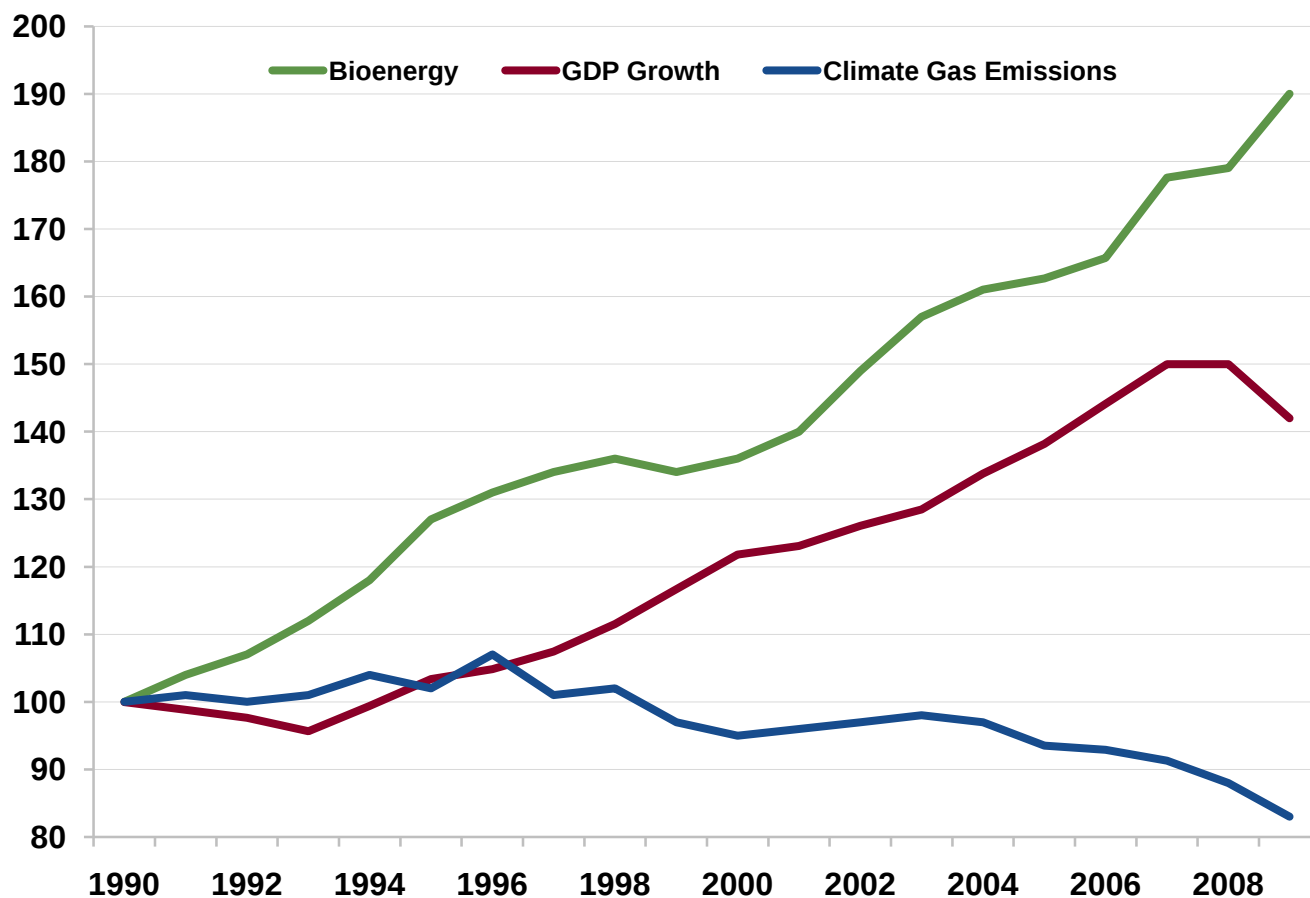
Cost for single house heating with oil or pellets



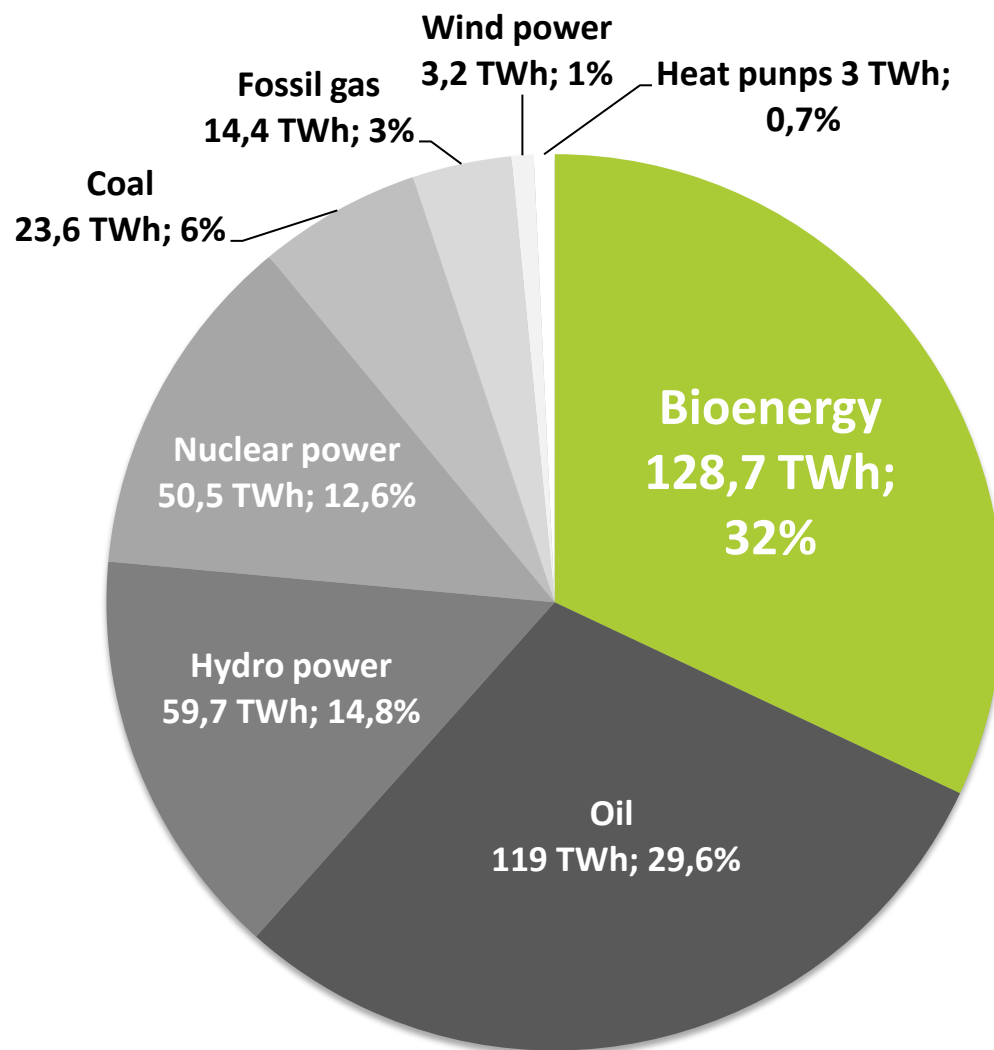
We need fair competition

- No subsidies anymore to fossil/nuclear
- PPP – Polluter Pays Principle, take environmental and economic externalities into account
- General Incentives, CO₂ tax , Sulphur and NOX
 - Cost efficient
 - Competitive
 - Most profitable solutions are chosen
- Demonstration or introduction support.

Carbon tax gave Sweden - Increased GDP, reduced emissions and more bioenergy



Share of final energy use in Sweden 2010



Thank you for your attention
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The Renewable Energy House in Brussels

