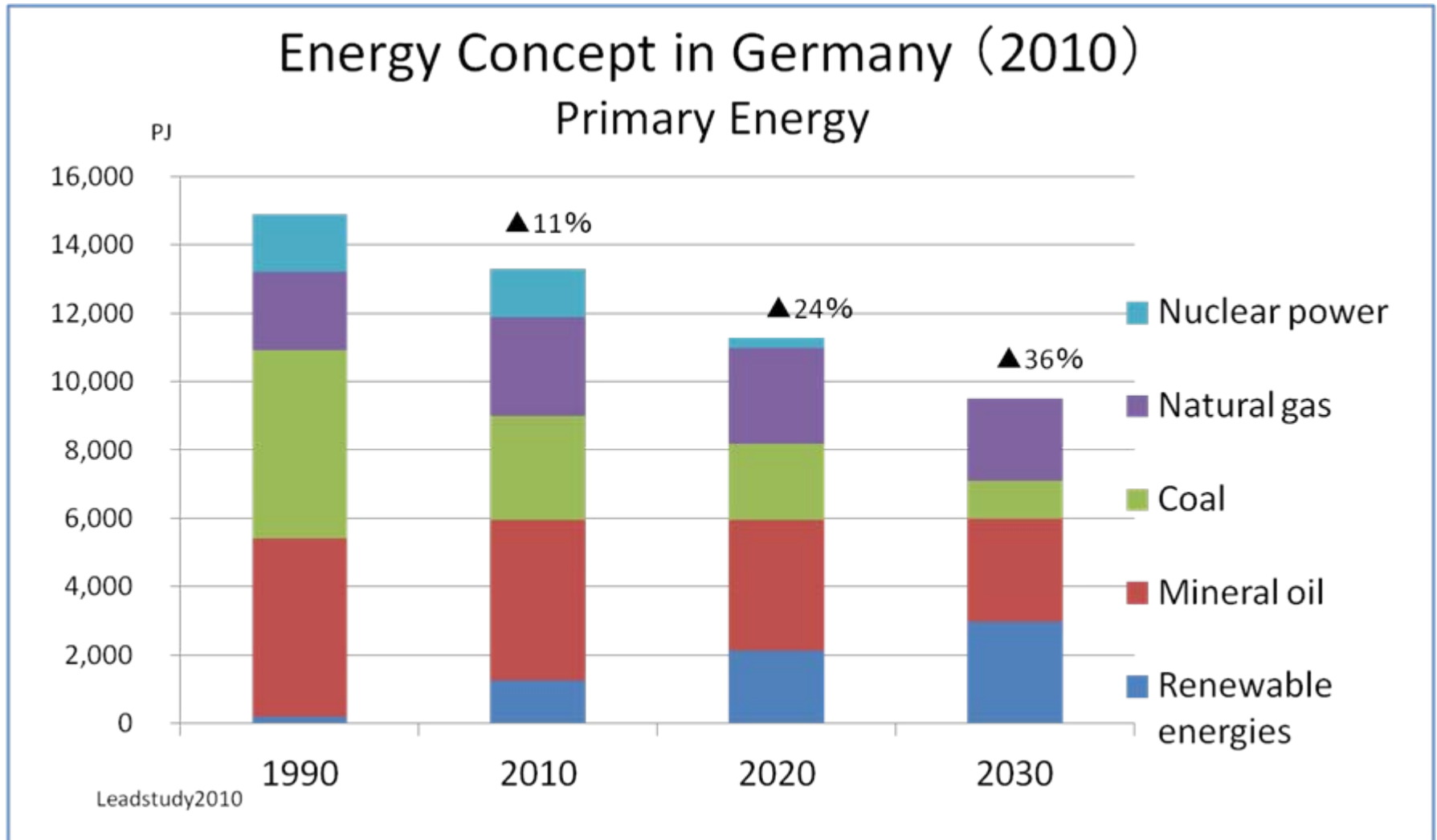


Creating **New Energy Concepts**

New Energy Concept after 3.11

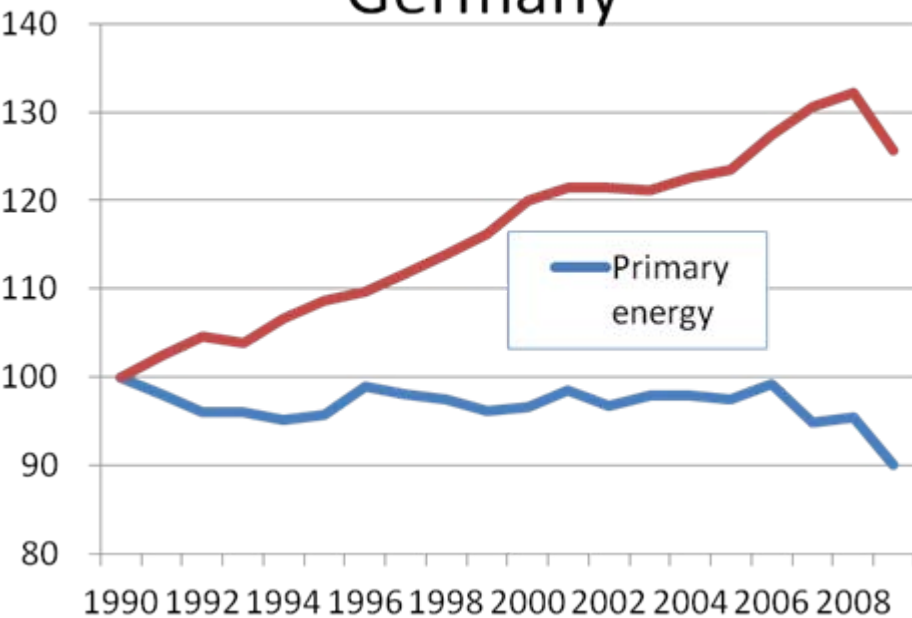
- ◆ Reduction in Energy Consumption
- ◆ Energy Shift (Expansion of Renewable Energy)



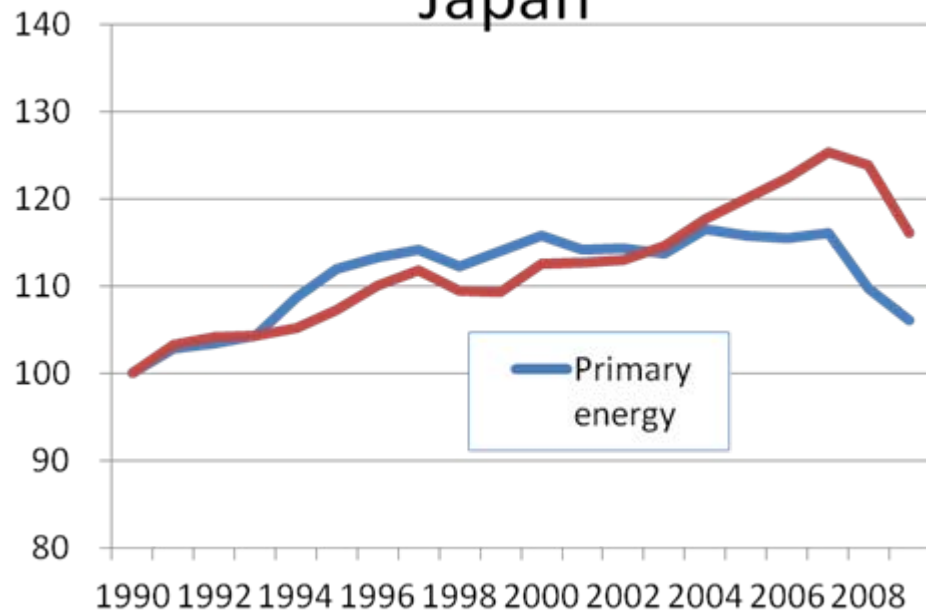
Decoupling of Energy Consumption from Economic Growth

Primary Energy Consumption and real GDP

Germany

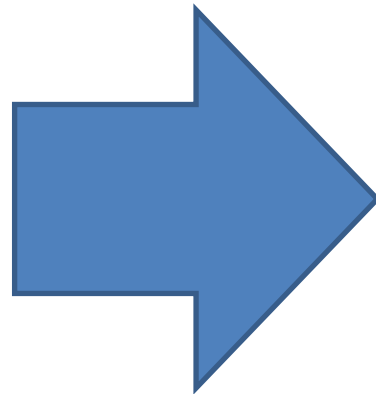
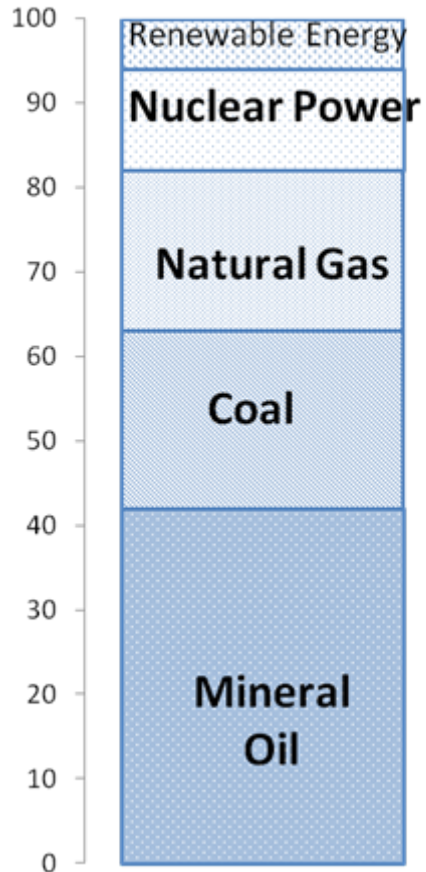


Japan

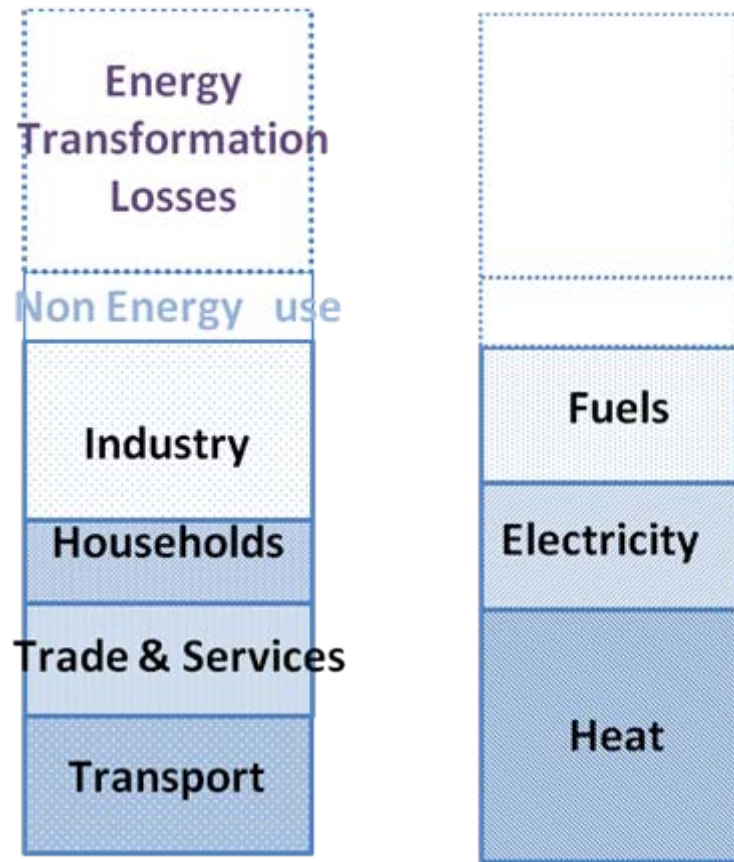


Energy Flow

Primary Energy



Final Energy Consumption



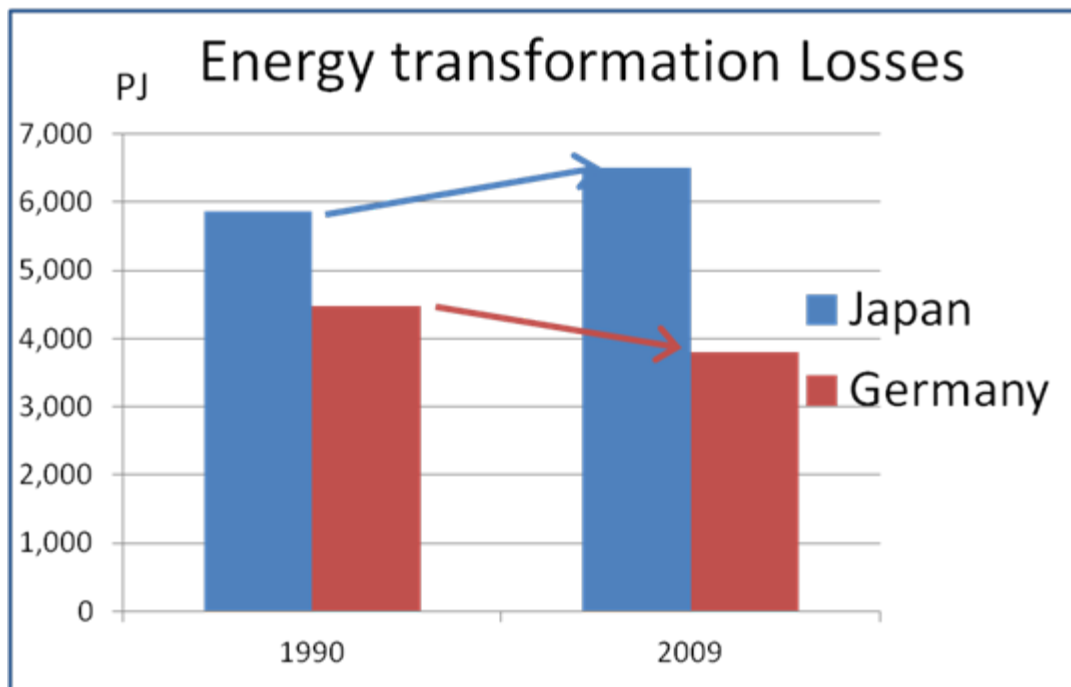
Energy Efficiency and Energy Productivities

Energy Transformation Losses

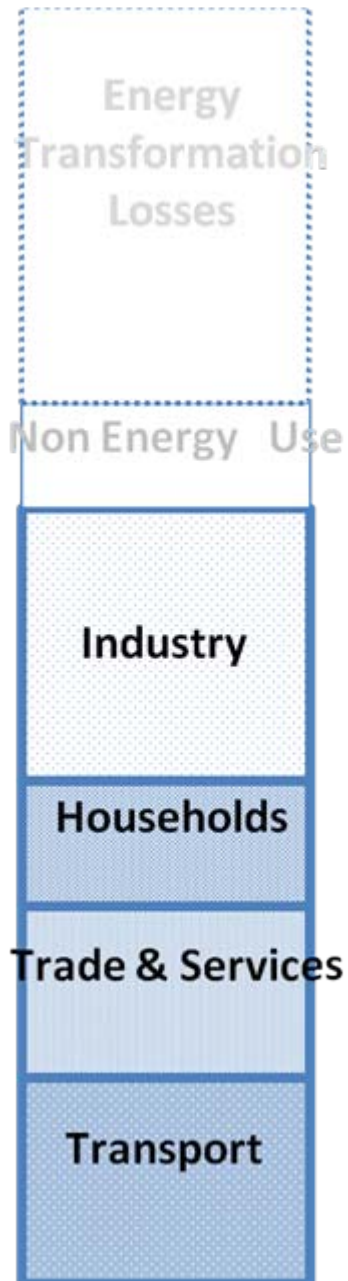


- ◆ Replacement of Old Power Plant
- ◆ Cogenerations
- ◆ Energy Shift
- ◆ Better Use of Heat and Electricity

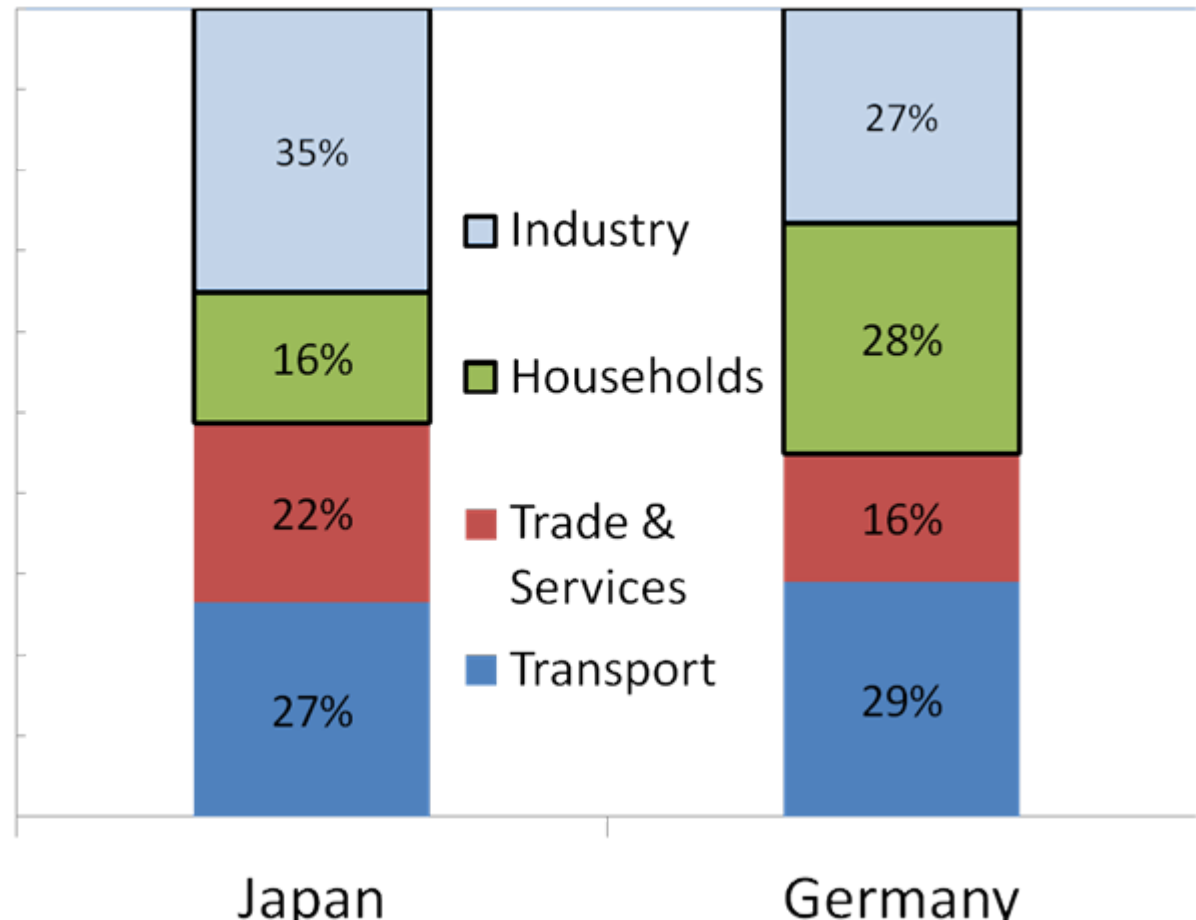
Non Energy Product



Potential of Reduction in Energy Consumption



Final Energy Consumption 2009



Renewable Energy

Heat and Electricity from renewable Sources

Heat

Solid Biomass

Geothermal

Solar
Collectors

Combined
Heat &
Power

Biogas etc.

Electricity

Wind

Geothermal

Photovoltaics

Hydropower

