

Energy and electricity saving action: Demand side measures in Germany

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The EnBW logo consists of the letters 'EnBW' in a bold, blue, sans-serif font. A horizontal orange line is positioned to the left of the 'n', extending towards the left edge of the slide.

Energie
braucht Impulse



EnBW Energy Baden-Württemberg Inc.



- › Third largest utility in Germany
- › Main areas of operation:
 - › Power generation and trade, grid, sales
 - › Energy and environmental services
 - › Natural Gas (mid and downstream)
- › Turnover 2011: more than 18bn Euro
- › Profit 2011: -857m Euro
- › Customers: approx. 5.5m
- › Employees: approx. 20,000



Energy efficiency targets for Europe ...



- › EU-Green Package (from 2008)
 - › 20% Green House Gas reduction until 2020 (ref. 1990)
 - › 20% Renewables in energy until 2020
 - › 20% Energy efficiency increase until 2020 (ref. BAU)
- › Energy Service Directive: decrease in final energy consumption by 9% until 2016 (ref. BAU)
- › **Energy Efficiency Directive 2012; national implementation 2014 to 2020**

... and Germany



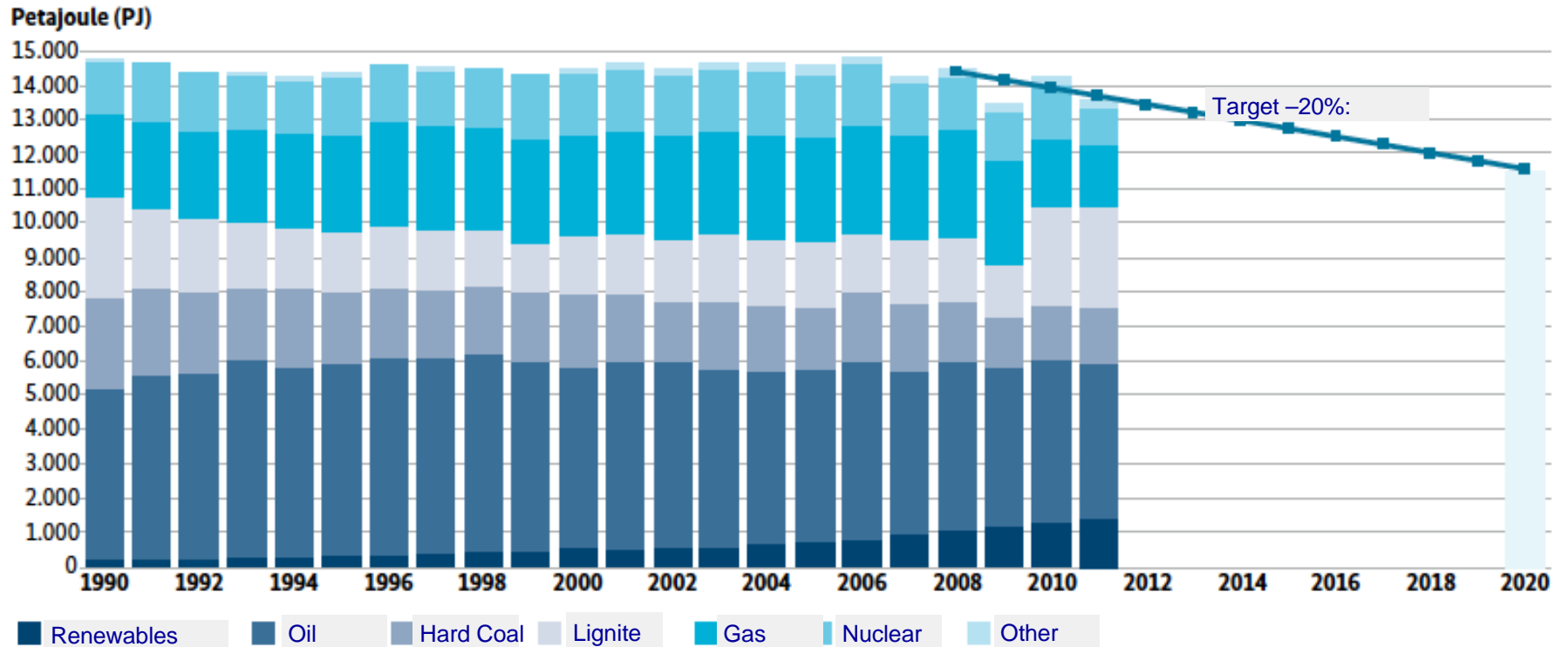
	Until 2020	Until 2050
Reduction of CO2 emissions (ref. 1990)	- 40 %	- 80 %
Decrease in primary energy consumption (ref. 2008)	- 20 %	- 50 %
Reduction in heat consumption	- 20 %	- 80 %
Reduction in electricity consumption	- 10 %	- 25 %
Reduction of final energy consumption in mobility (traffic)	- 10 %	- 40 %
Share of renewable energy in electricity generation	35 %	80 %
Annual energetic reconstruction rate for buildings	2 %	2 %

EU Energy Efficiency Directive (since Dec. 4th, 2012)

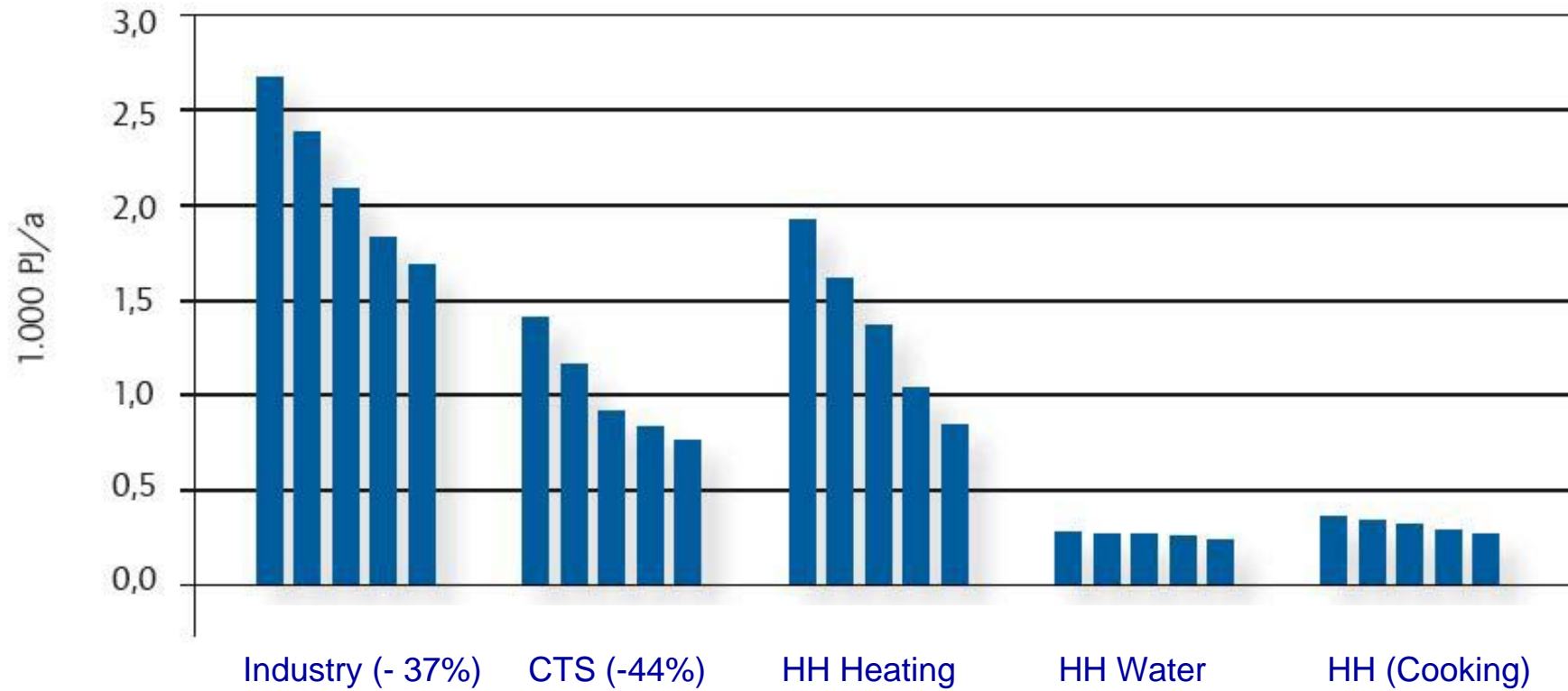


Efficiency Target	<ul style="list-style-type: none"> › Implementation of a non-binding efficiency target in all EU-Member States › COM is monitoring the process
Energy Efficiency Commitment System	<ul style="list-style-type: none"> › Annual energy savings of 1.5% › Choice between a legal obligation for utilities or alternative measures › Eligibility of preliminaries and savings from generation, trade und grids
Measures in the public sector	<ul style="list-style-type: none"> › 3% annual reconstruction rate for the public sector › Implementation of an efficiency plan for all public buildings (states and municipalities included)
Energy Audits	<ul style="list-style-type: none"> › Mandatory energy audits for “big companies” › Audits have to be independent and carried out by certified auditors
Informative Billing	<ul style="list-style-type: none"> › Sensitization of the customer with regard to demand issues › Quarterly statement of consumption › Cost free sending
CHP	<ul style="list-style-type: none"> › Obligation for heat extraction for new and modernized fossil power plants >20 MW

Primary energy consumption in Germany is slightly decreasing



Energy saving potentials in Germany 2008 - 2050



Source: Prognos 2010, 2008 left 2020, 2030, 2040, 2050 (right)

Actual German discussion on efficiency: “Eliminate constraints and open up potentials”



- › Technical saving potential is clearly higher than political targets – example: reconstruction of buildings; especially modernization of heating installations
- › The political triad of „**obligation – funding / incentives – information**“ has to be improved
- › Example funding: discontinuity of funding - the German Energy- and Climate Funds is chronically underfunded
- › Example obligation / incentives: The law for incentives and legal obligations in the area of building reconstructions failed twice in the mediation committee between Bundesrat (upper house) and Bundestag (lower house)
- › Example obligation: potentials in CTS and industry remain untouched due to an unclear regulatory environment

Summary and Outlook



- › Energy efficiency is an important part of the Energiewende in Germany and Europe
- › It has to be a joint effort of politics, economy and society to raise the awareness for saving energy
- › Political measures should not destroy entrepreneurial spirit nor economical efficiency potentials by general obligations and unselective public funding
- › EnBW Inc. wants to become first address for B2C and B2B customers as well as municipalities for decentralized energy solutions – there are market opportunities in energy efficiency even for utilities!
- › EnBW Inc. supports an ambitious efficiency policy in Germany and Europe