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Bundesamt für Energie BFE
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Ufficio federale dell'energia UFE
Swiss Federal Office of Energy SFOE

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SwissEnergy – efficiency action plan



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Energy Perspectives 2035: Scenarios

Scenario I: Business as usual

Scenario II: Enhanced Cooperation

CO₂ tax on stationary fuels, promotion programmes, moderate regulation

Scenario III: New Priorities

Quantified targets, 'incentive tax', stringent regulation
International harmonisation of targets and policies & measures

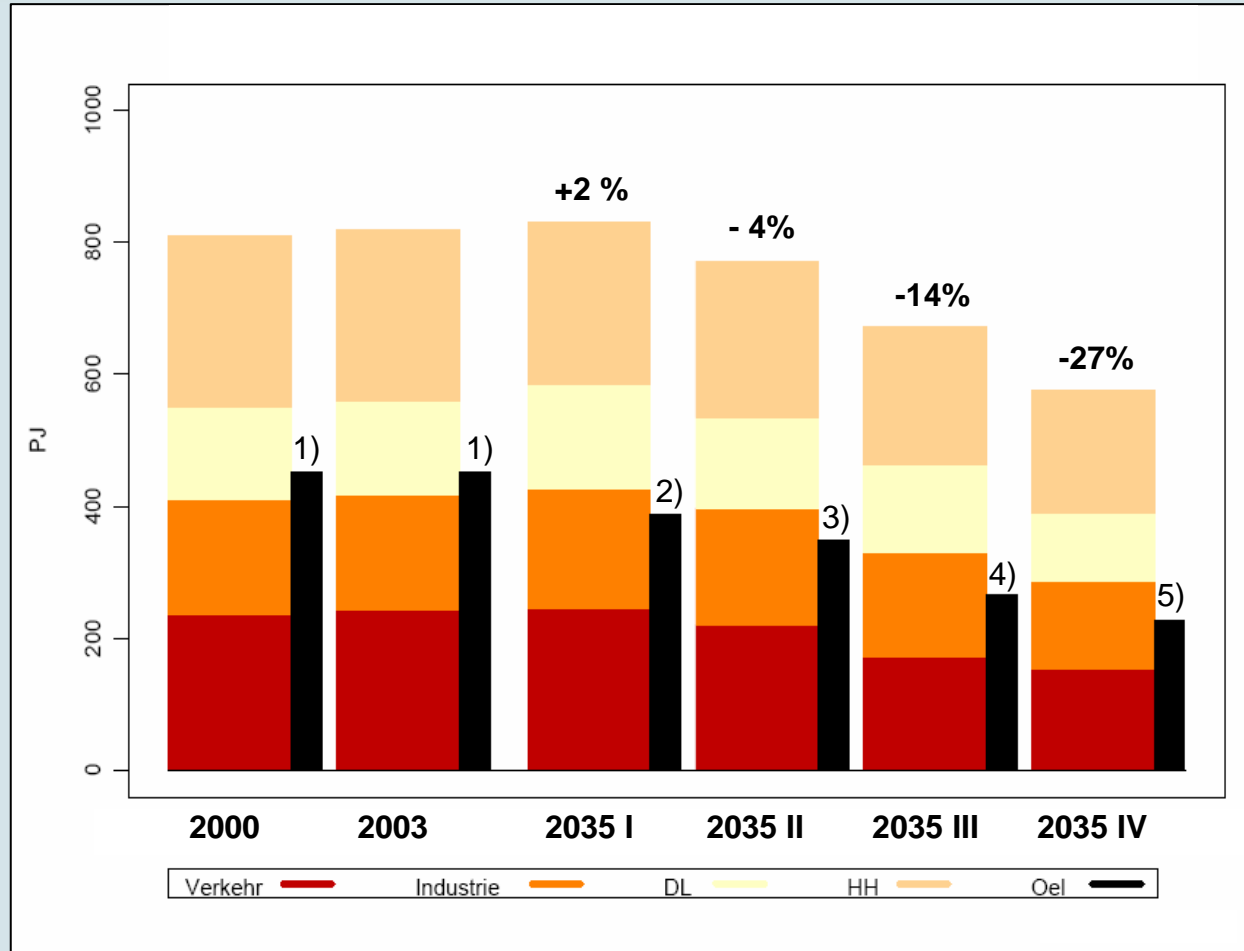
Scenario IV: Transition toward 2000-watt society

As for Scenario III, but...

In addition: Subordination of economic and transport policies and spatial planning to the imperative resource management

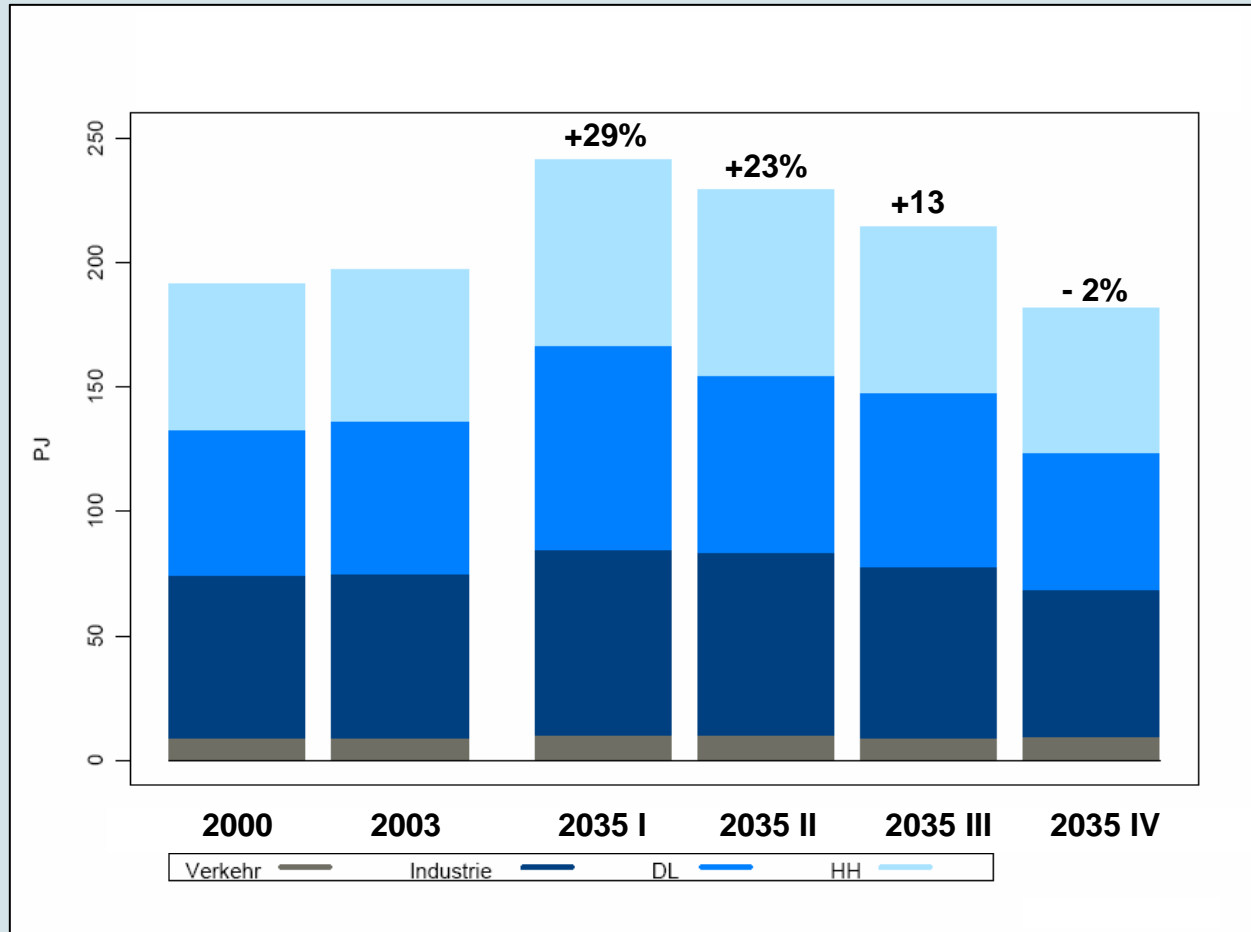


Energy Perspectives 2035: Energy End Use under Scenarios I-IV



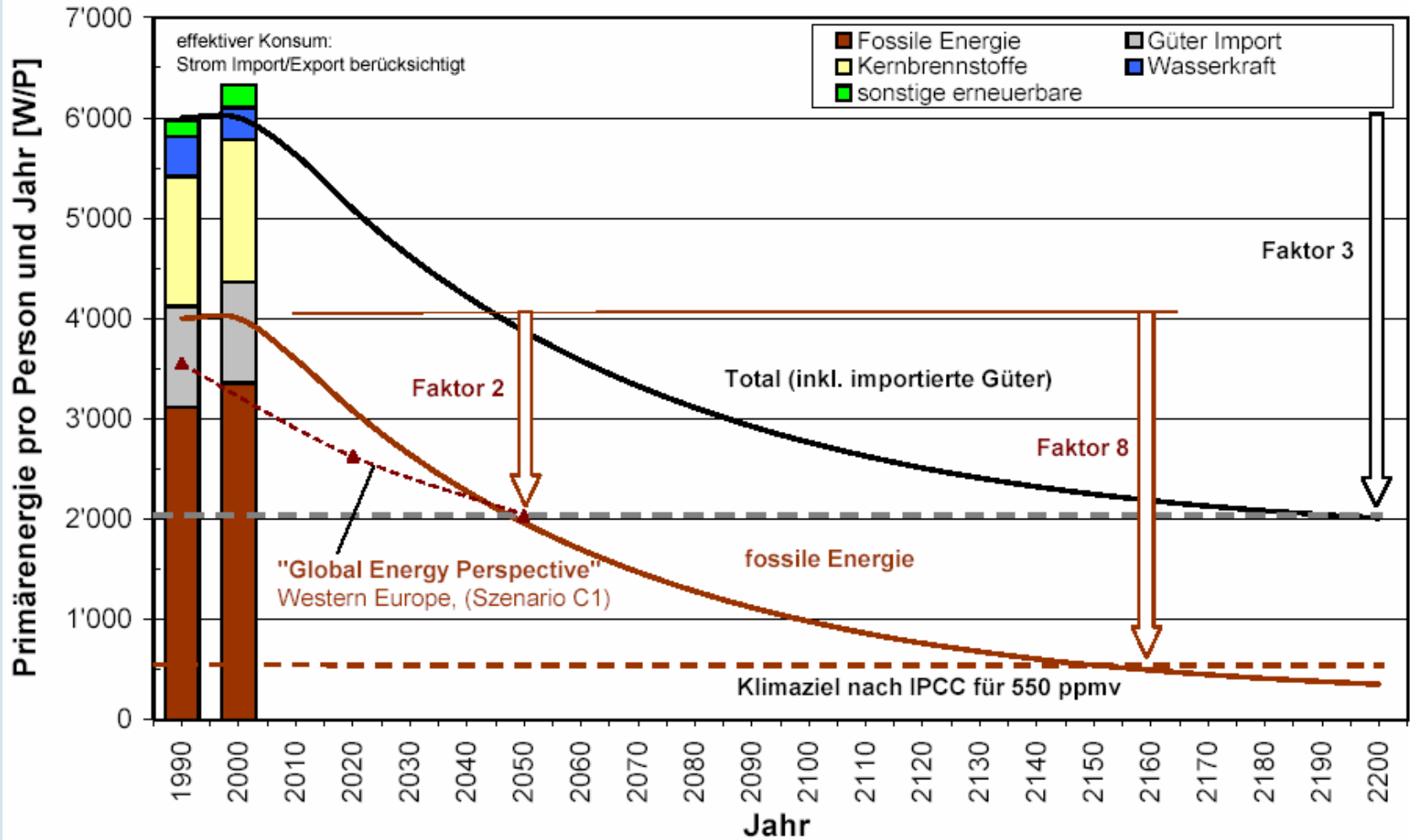


Energy Perspectives 2035: Electricity Demand under Scenarios I-IV





Vision 2050: 2000 Watt Society





About the current energy policy of Switzerland: Issues of the Federal Council

The energy strategy of the Federal Council is structured in four columns:

- Energy efficiency
- Renewable energies
- Main power stations
- Energy foreign Policy

→ The final goal: „2000-Watt society“



The action plans for Energy Efficiency and Renewables (till 2012 and post Kyoto)

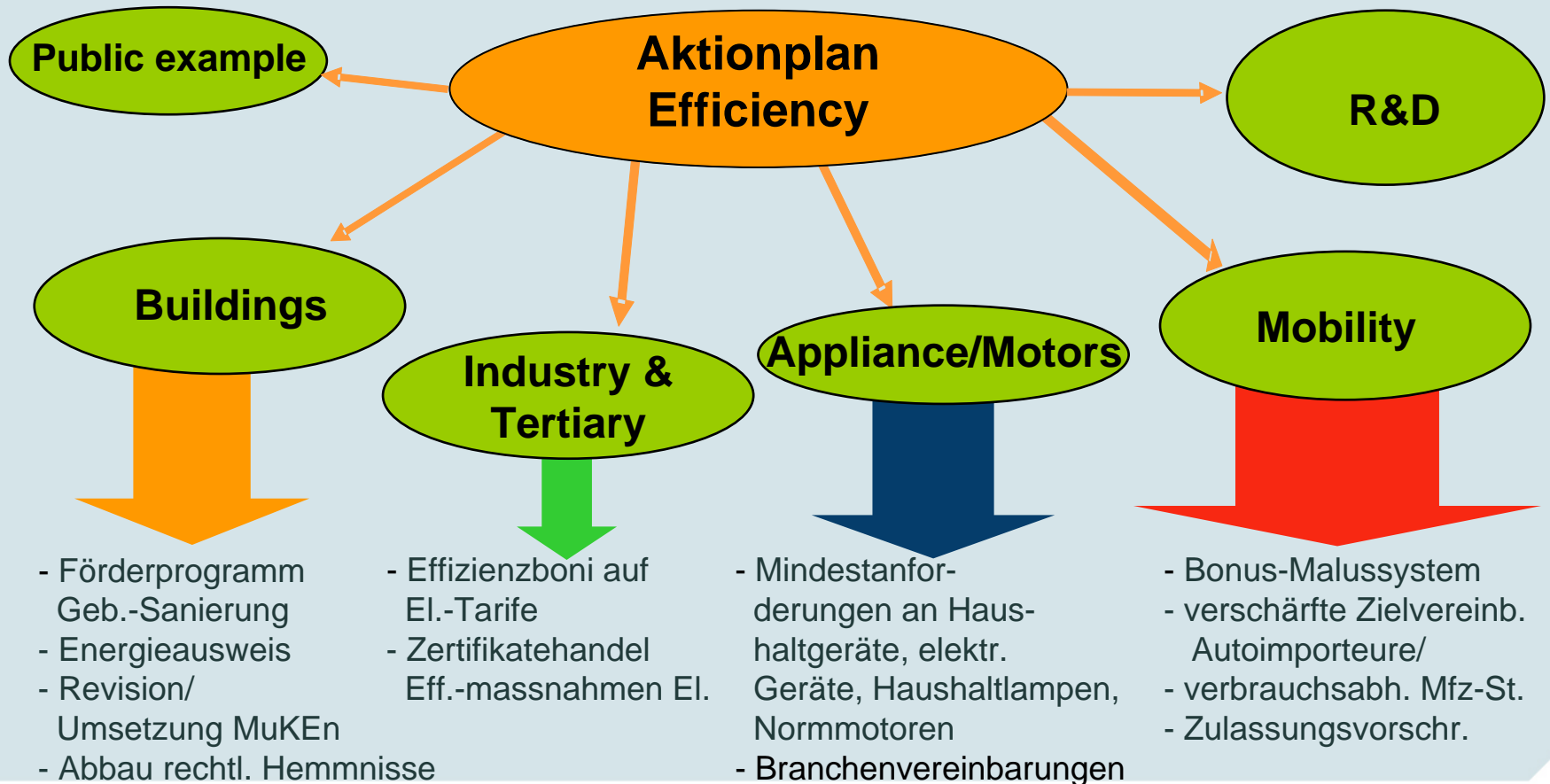
The Federal Council decided at the 20. February 2008

- Revision of CO₂-act (targets similar to EU = - 20 % emissions till 2020)
- Action plan for energy efficiency: 15 direct applicable measures for buildings, cars and household appliances.
- Action plan for renewable energies (especially the use of biomass): 7 measures.



Actionplan Efficiency

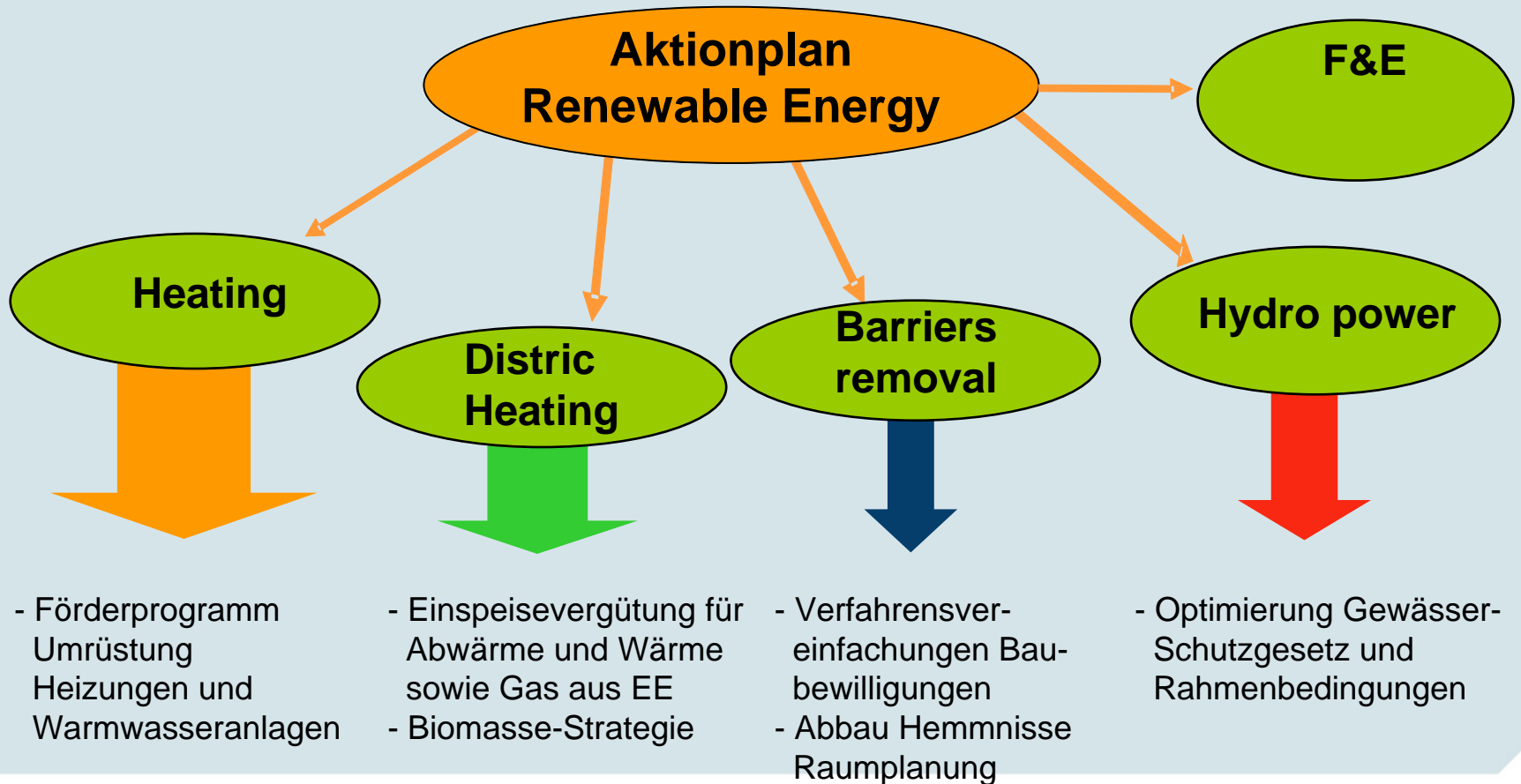
Energy strategy, Pilar 1: Energy efficiency – 15 Measures





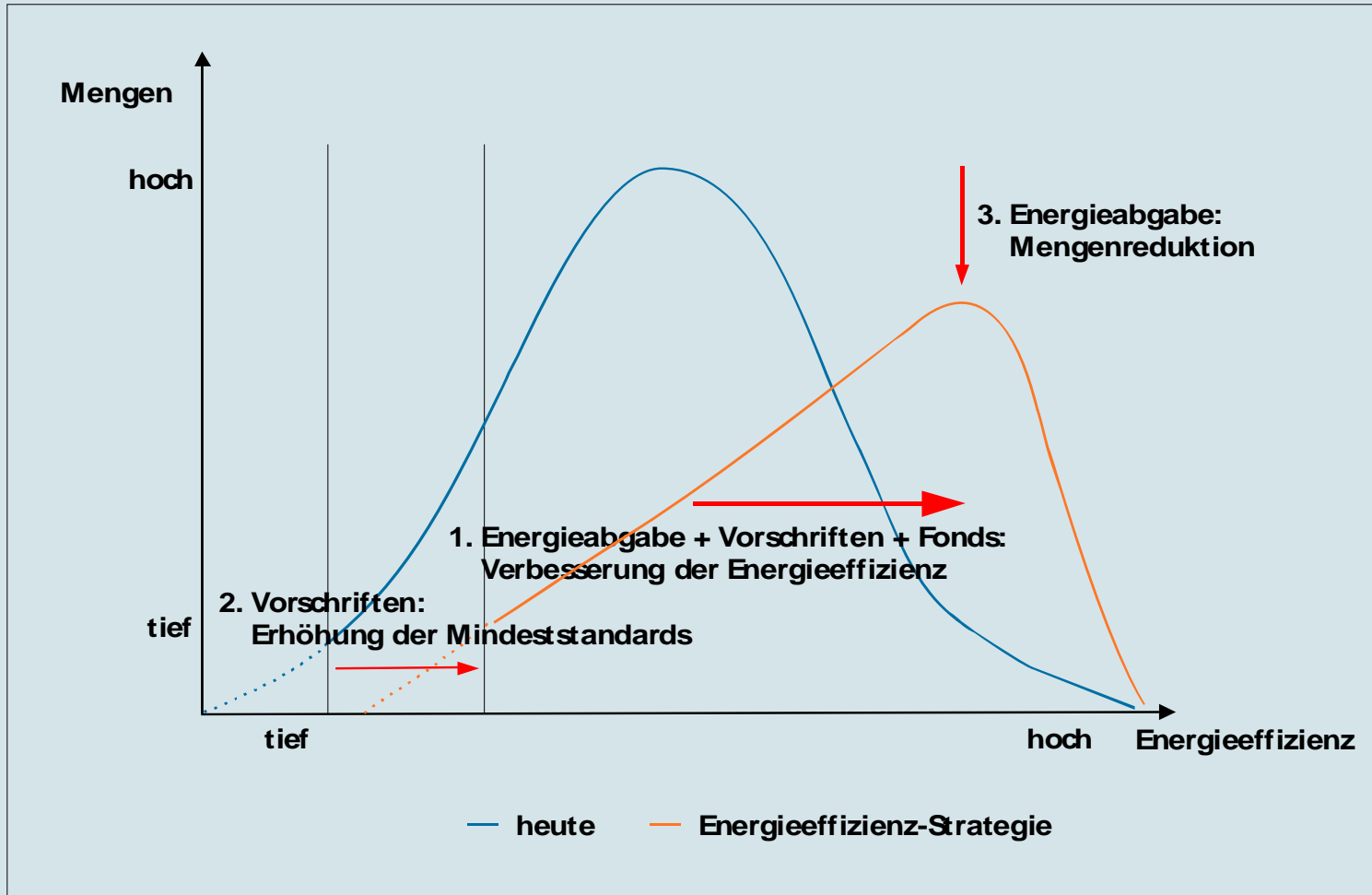
Actionplan Renewable Energy

Energy strategy, Pilar 2: Renewable Energy – 7 Measures





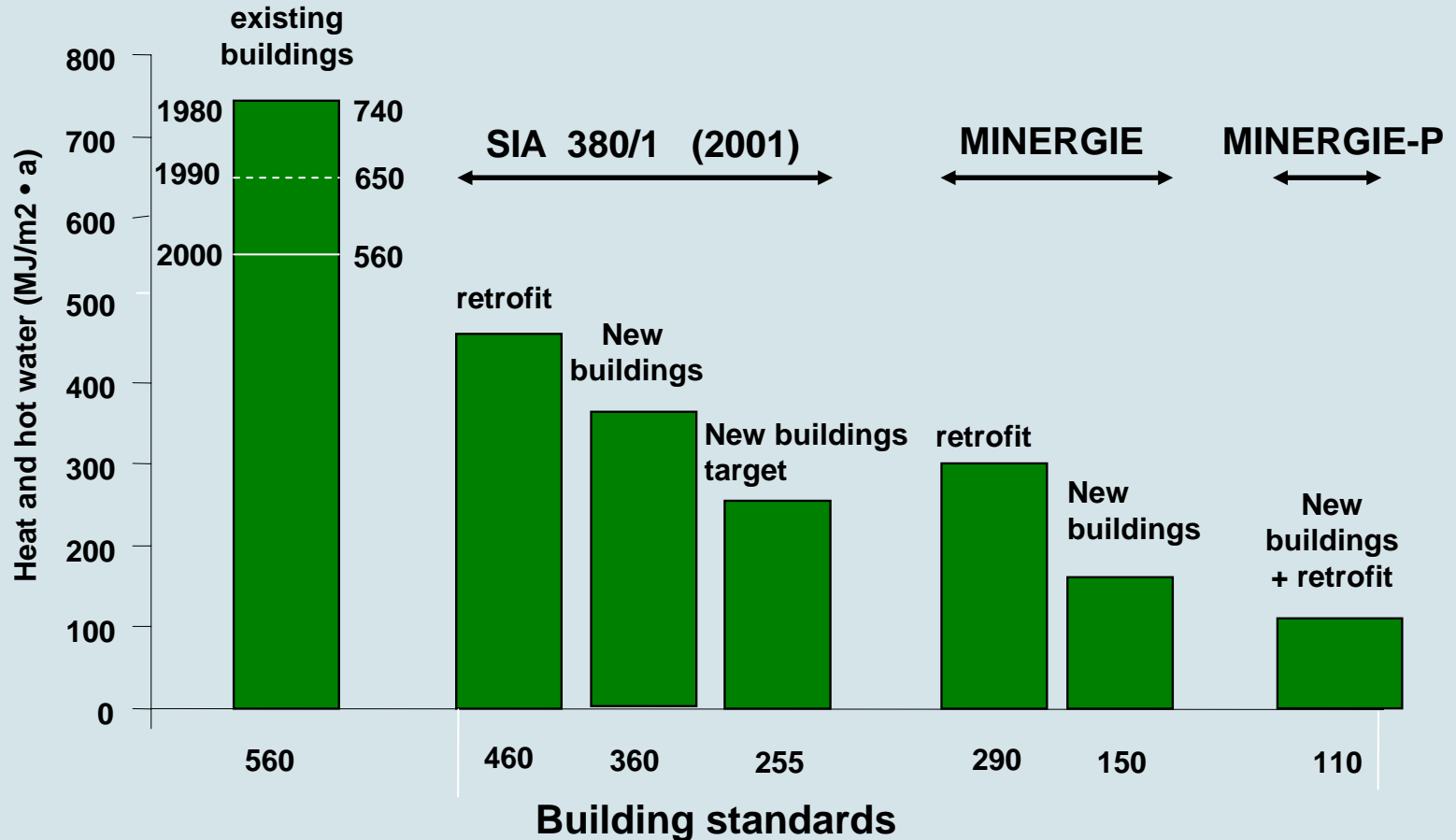
Efficiency strategy: Push-and-Pull





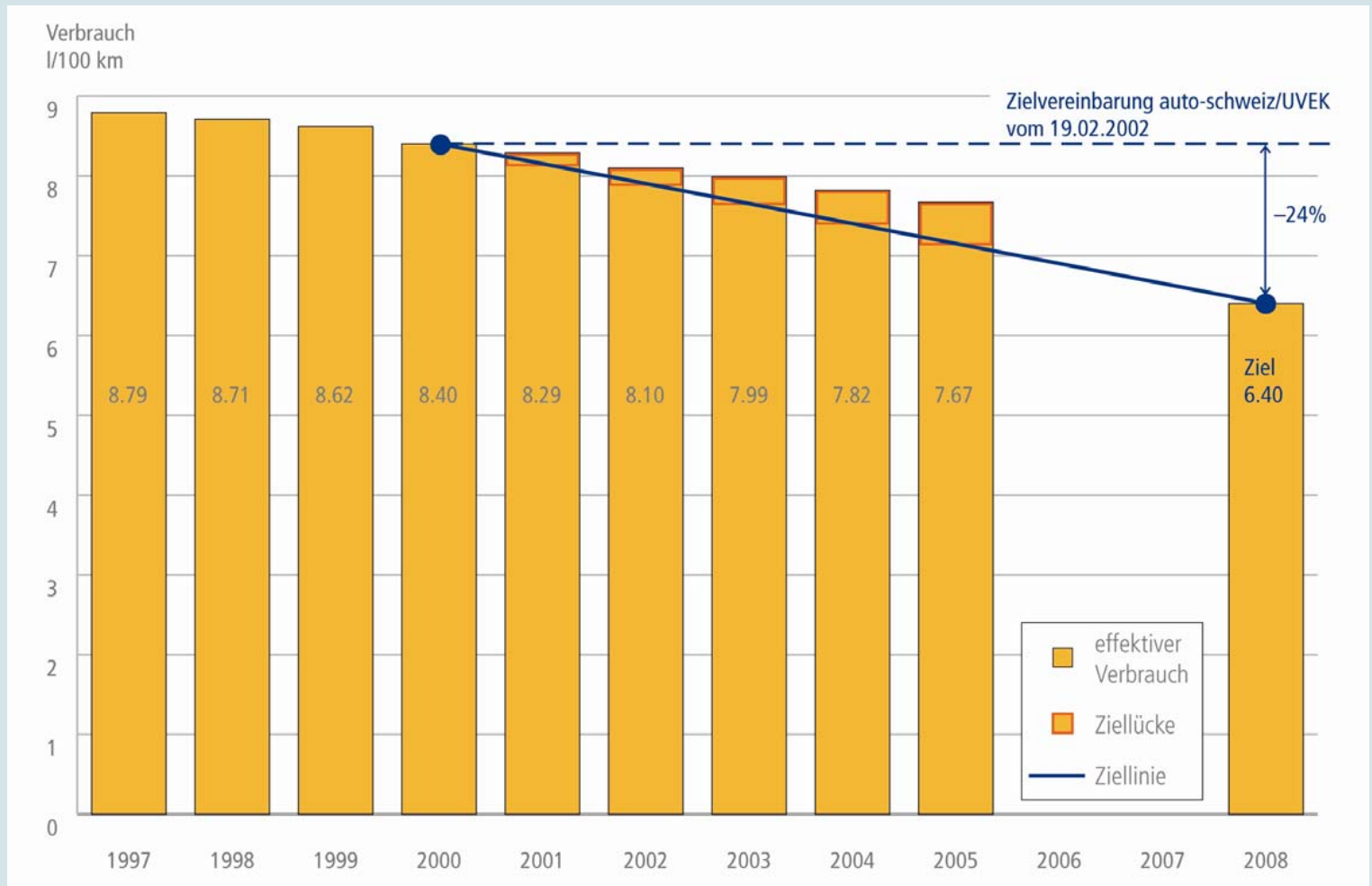
Efficient Buildings of the future: renewable energies as a pillar

Minimal standards (new buildings) and incentive measures (refurbishment)



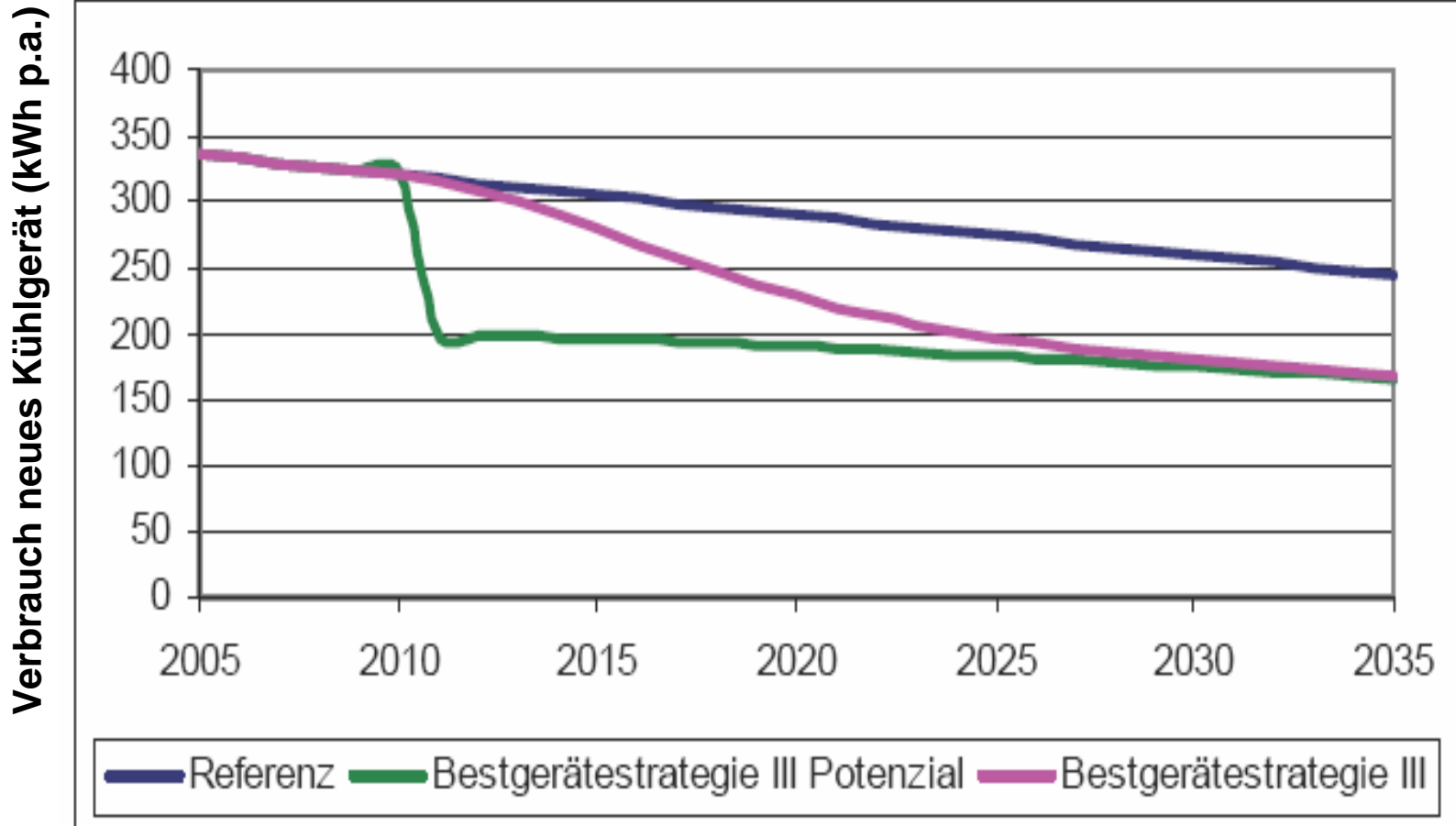


Mobility: new targets and incentives





Electric appliances: i.e. lamps, electric motors, etc. Strict minimal standards





Electric Motors

- In Switzerland, electric motors are using most part of total Swiss electricity consumption. Its about 45% or 26 TWh/year of which 12 TWh are used by the industry
- The Efficiency-Potential is important, the estimation is 20% or 5 TWh/year, 2 TWh/year are definitely profitable
- The relevant standards are documented in the IEC 60034 Norms (test standards, methods to measure performance and classification)
- In IEC 60034-30 the new efficiency classes IE1, IE2, IE3 are defined (old classes, not on legal base and 1 step less efficient were eff3, eff2, eff1)



**Thank you
for your attention!**

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