



Federal Ministry for the
Environment, Nature Conservation,
Building and Nuclear Safety

The German Solar Thermal Policy

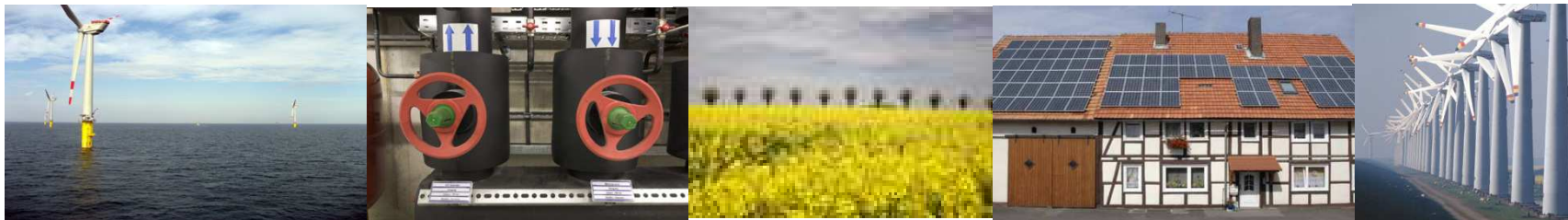
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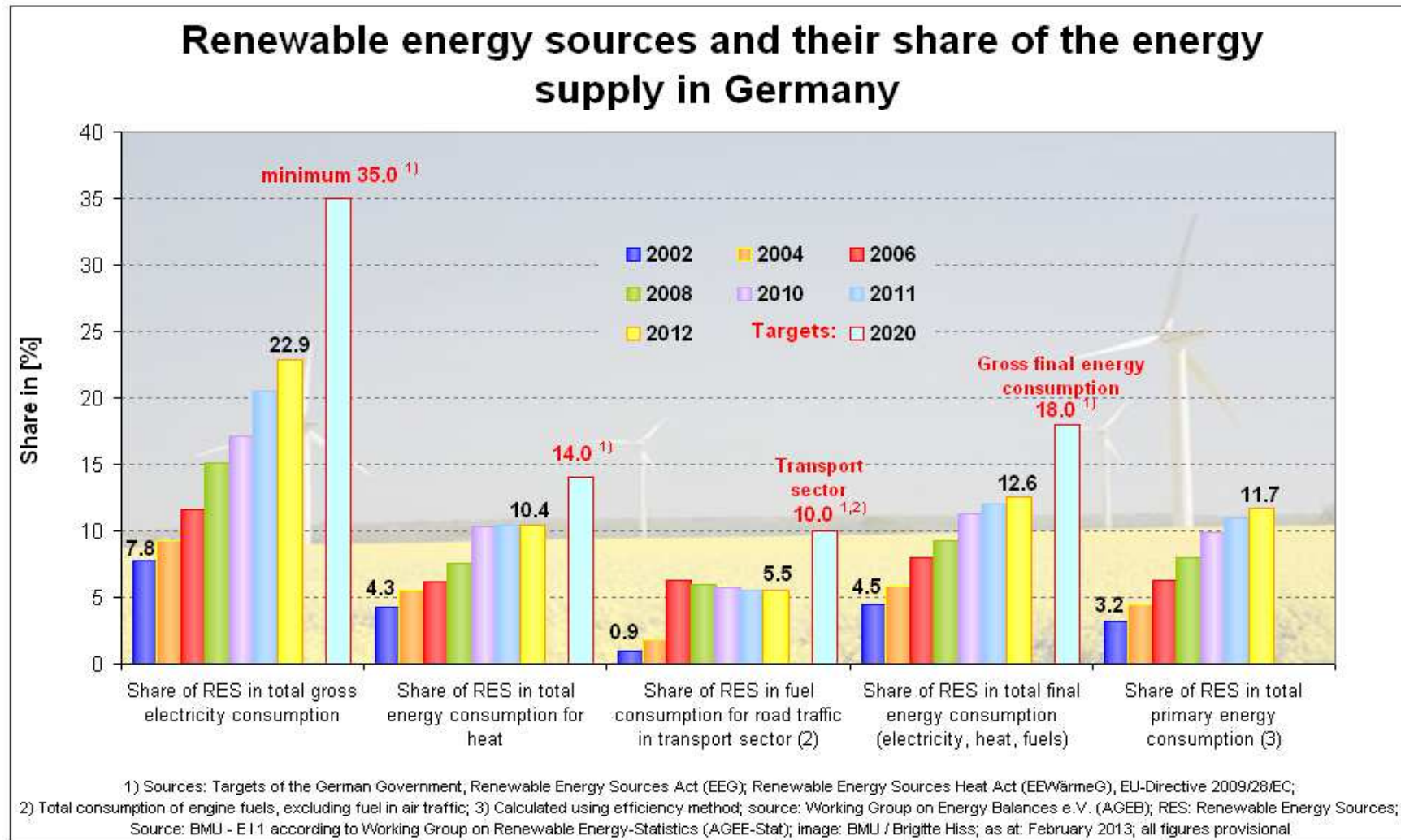
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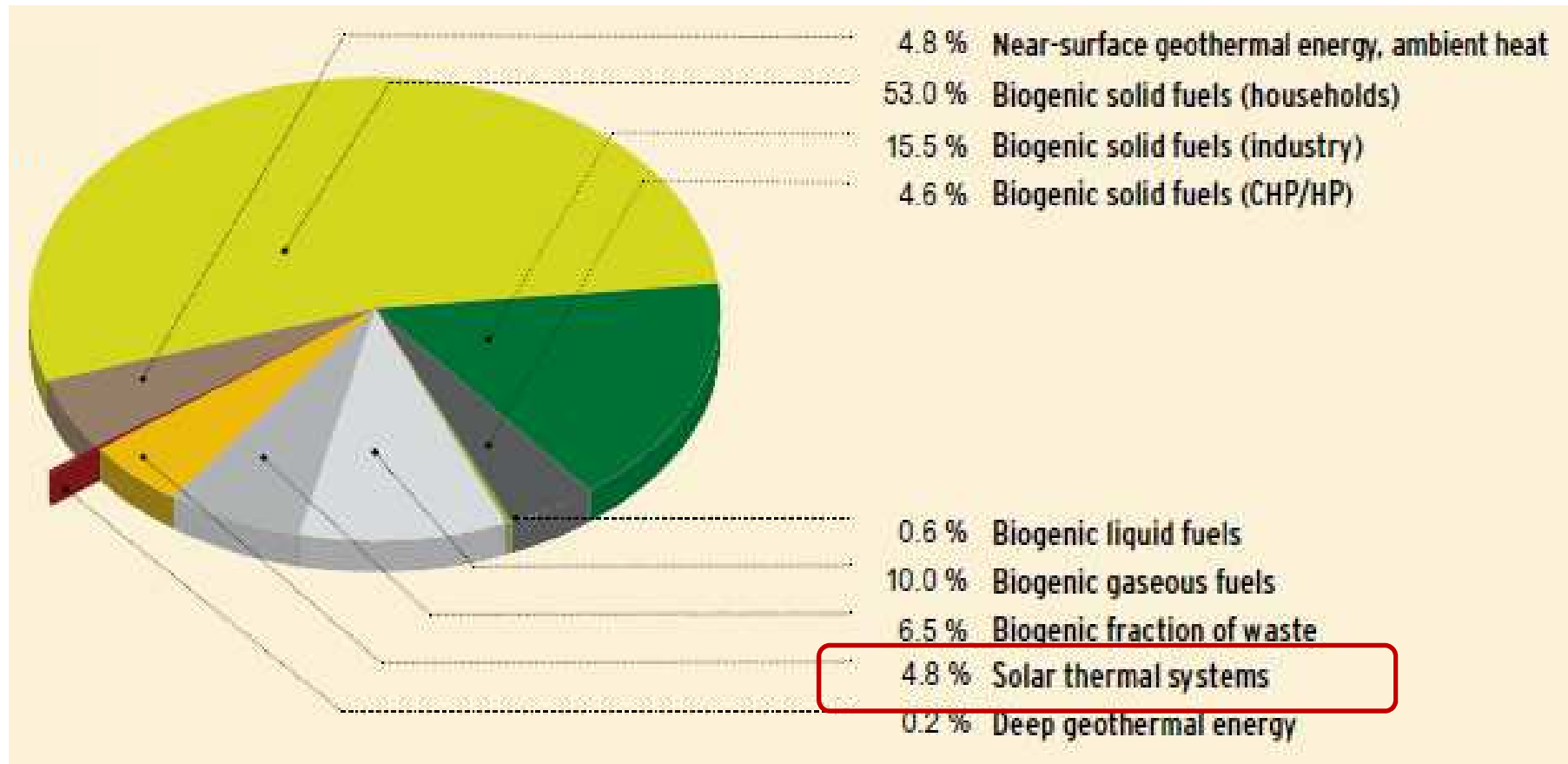
I. Share of RE-heat consumption



I. RE based heat supply in 2012 (total 140 bill. kWh)

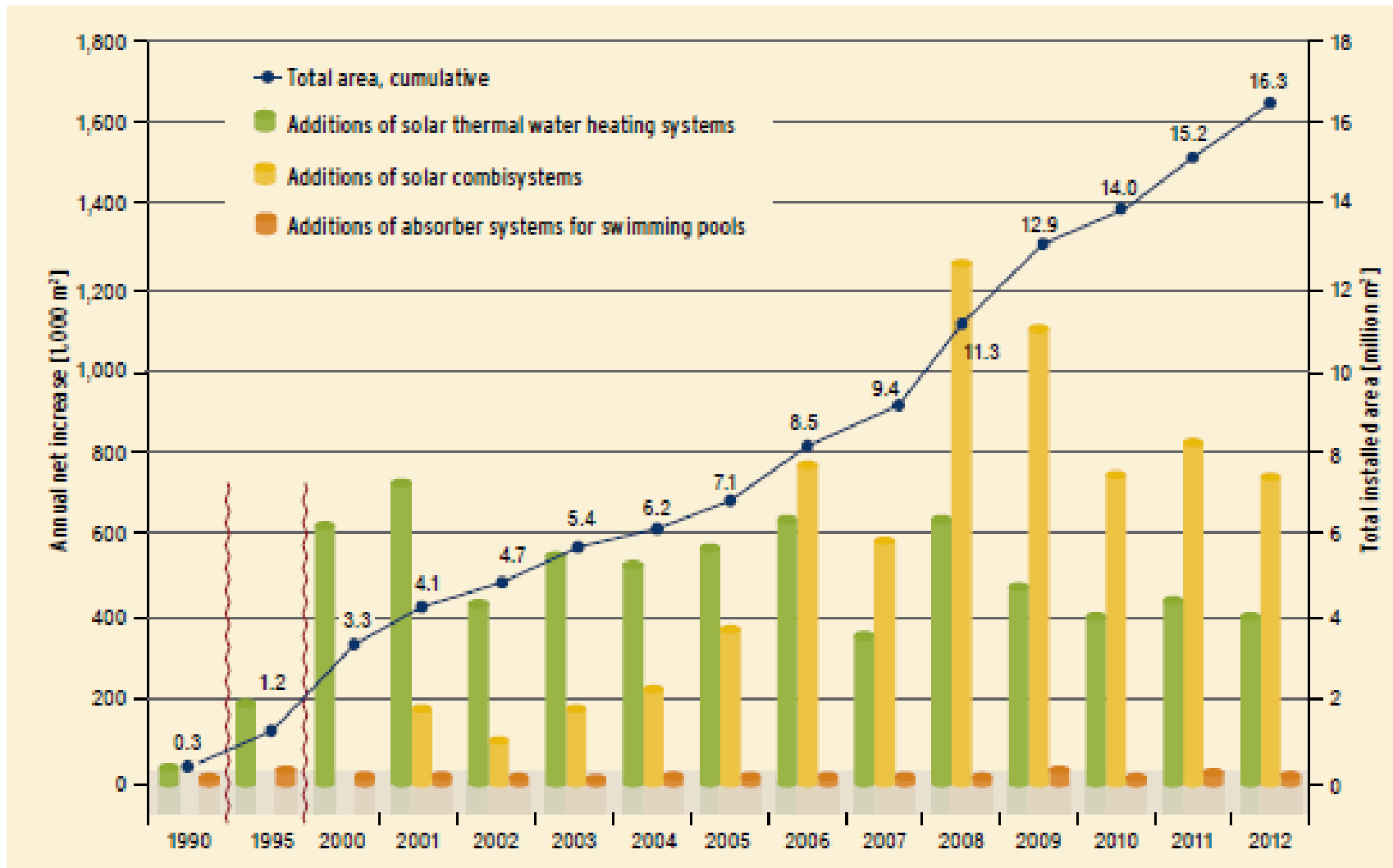


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Source: BMU 2012

I. Additions to solar thermal capacity since 1990 (11,5 GW in 2012)



Source: BMU 2012

II. German Act on the Promotion of RE in the Heat Sector (EEWärmeG)



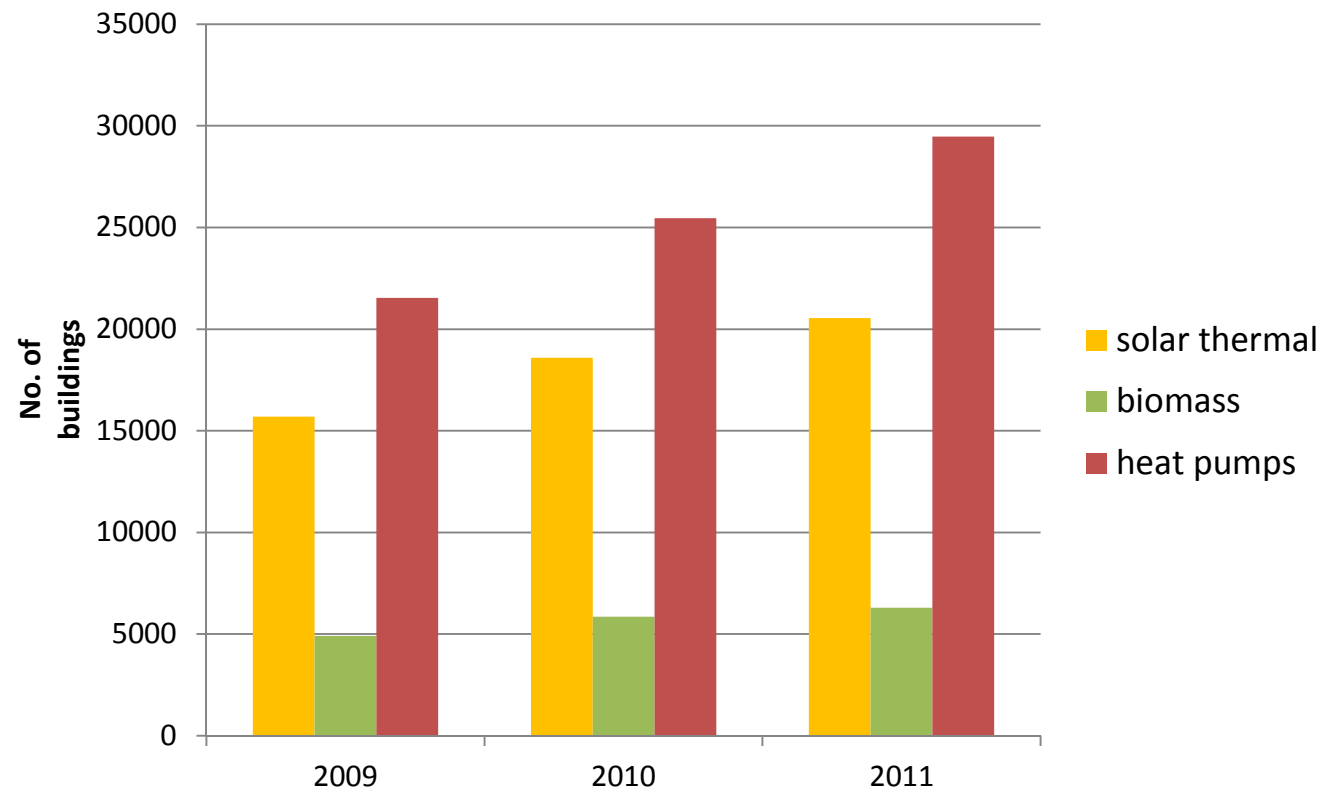
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- 2020, share of renewable energies in heating and cooling is to reach 14% (2011: 10.2%)
- The law requires all **new buildings** to use a proportion of RE for heating and cooling or to take alternative measures
- The law also requires **public buildings** to use RE for heating and cooling when undertaking major renovations, f.e. 15% for solar thermal
- Alternative measures:
 - Cogeneration, waste heat or district heating to meet at least 50% of the buildings' heating and cooling demand
 - Higher energy efficiency standards : the building's energy demand must exceed the **energy performance standards** for new buildings by at least 15%



II. Number of new buildings with RE plants

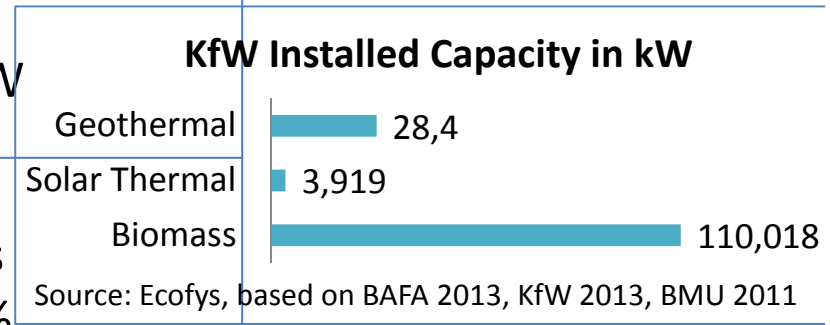
55% partly and 33% fully supplied by renewable heat





III. Market Incentive Programme (MAP)

KfW / Solar thermal support for large plants (Non-residential/ Multistore)	
Supported technologies	<ul style="list-style-type: none"> • solar collectors > 40 m² • For DHW, heating systems, process heat • district heat from RE > 500 kWh/a • large heat RE storage > 20 m³ • large efficient heat pumps > 100 kW
Type and scope of support	<ul style="list-style-type: none"> • Low interest loans • up to 100% of net investment costs • Repayment bonus between 30-50% • max. € 10m, plus repayment bonus <p>Total installed capacity 142.34 MW in 2010</p>
	Total volume of financial support through MAP 2012: € 350m; 2013: € 480m





III. Market Incentive Programme (MAP)

BAFA support for smaller households and SME projects

Supported technologies

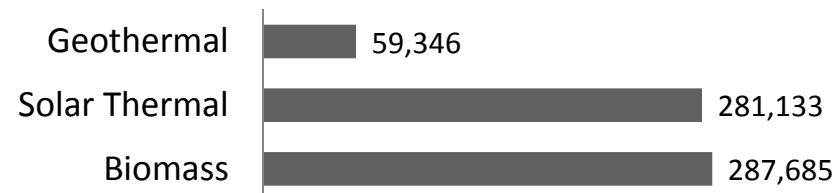
- solar collectors
- Bonus for innovative technologies for dhw; heating; solar cooling; process heat
- ***Residential, multistore and non-residential***

Type and scope of support

- Grants depending on size
- **Basic support** up to $< 40 m^2$ with $90 \text{ €}/m^2$ minimum of 1500 €
- **Innovation support** for $> 20-100m^2$ with $180\text{€}/m^2$
- $<1.000 m^2$ for process heat with 50% net-costs
- 2012-2014 total of 84 projects (process heat) with 1,41. Mio. € support



BAFA Installed Capacity 2010 in kW





Thank you for your attention.

Further information

www.bmub.bund.de

