

Saxony

Inhabitants: 4,149,477

Area: 18,415 km²

Energy & CO₂ figures

- Primary energy consumption: 181 TWh/y
- Resulting in 47,727 kt CO₂/y
- or 11,5 t CO₂ per capita



Regional characteristics:

Average primary energy demand:

Average heating demand: 100-250 kWh/m²

Percentage of old buildings: 2/3 of buildings built before 1948

Cost for new building with dwellings under current building code: 1,784 €/m²

Cost for new building with dwellings and passive house standard: 1,914 €/m²

Degree days in the region: 3,628

EE buildings in your region:

Low energy house

Passive house (primary energy demand of ≤ 120 kWh/m²/a, heating demand of ≤ 15 kWh/m²/a, air tightness maximum of 0.6 h⁻¹)

Zero energy house / plus energy house (heating demand of ≤ 15 kWh/m²/a)

Implementation of EPBD:

Name of national directive: **Energy Saving Act (EnEG)**

Other directives supporting EPBD: - national: Energy Saving Ordinance (EnEV)

- regional: SächsEnEVDVO

- local: Passive house ordinance for public buildings in Leipzig

Funds and incentives to support EE in buildings:

National: - Credit Institute for Reconstruction
- Integrated rural development

Regional: - funding program Energy and Climate protection
- funding program Residential property
- funding program for schools
- funding program for Kindergarten
- funding program for sport facilities

Local: - individual funds by regional energy supply companies

Main challenges in implementing EPBD:

Lacking control mechanism

Lacking knowledge of actors

Reaching people's awareness on climate change

Innovations in EE buildings

Webbased advisory platform for builders

Ventilation system with heat recovery

Bricks filled with insulation material (perlite, mineral wool, polystyrene balls)