

# Haute-Savoie

Inhabitants: 706,708 (HSA)  
6m (Rhone-Alpes)  
Area: 4,388 km<sup>2</sup>  
43,698 km<sup>2</sup> Rhone-Alpes)

## Energy & CO<sub>2</sub> figures

- Primary energy consumption: 134 TWh/
  - Resulting in 41,000 kt CO<sub>2</sub>/y
  - or 6.8 t CO<sub>2</sub> per capita
- (all figures from Rhone-Alpes region)



## Regional characteristics:

Average primary energy: 250 kWh/y

Average heating demand: ca. 170 kWh/y

Average age of buildings / percentage of old buildings:

Cost for new building with dwellings under current building code: €/m<sup>2</sup>

Cost for new building with dwellings and passive house standard: €/m<sup>2</sup>

Degree days in the region: 2957

## EE buildings in your region:

**Low energy house** (primary energy demand of 50,0 and air tightness  $\leq 2.4 \text{ h}^{-1}$  (BBC),  
(primary energy demand of 40,0 and air tightness  $\leq 0.6 \text{ h}^{-1}$  (Effinergie)

**Passive house** (primary energy demand of 120,0, heating demand 15,0, air tightness  $\leq 0.6 \text{ h}^{-1}$ )

**Zero energy house / Plus energy house** (heating demand of  $\leq 15,0$ )

## Implementation of EPBD:

Name of national directive: **Grenelle II law bill** (general), **Thermal regulation 2012** (new building)

Other directives supporting EPBD:

- national: High energy performance label, tax incentives
- regional: QEB Referential for social housing (new and old)
- local: Local urban plan: provides permission to obtain +20% building surface

## Funds and incentives to support EE in buildings:

National: Prêt à taux Zero à l'achat (0% loan)

Regional: QEB referential for social housing

Local: depend on local authority

## Main challenges in implementing EPBD:

Lack of training for building professionals

Lacking control mechanism

Complicated national regulations on thermal calculations

Raising public awareness for natural resources

## Innovations in EE buildings

Oxalys training centre: training on low(self) construction technics

CAPEB/ BTP (building professional association) training

Prioriterre website: resource centre for EE building for private and public actors

VAD: an association for sustainable town and landscape planning