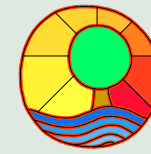


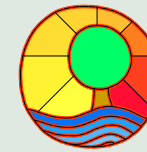
Energiestrategie 2025 des Landes Steiermark



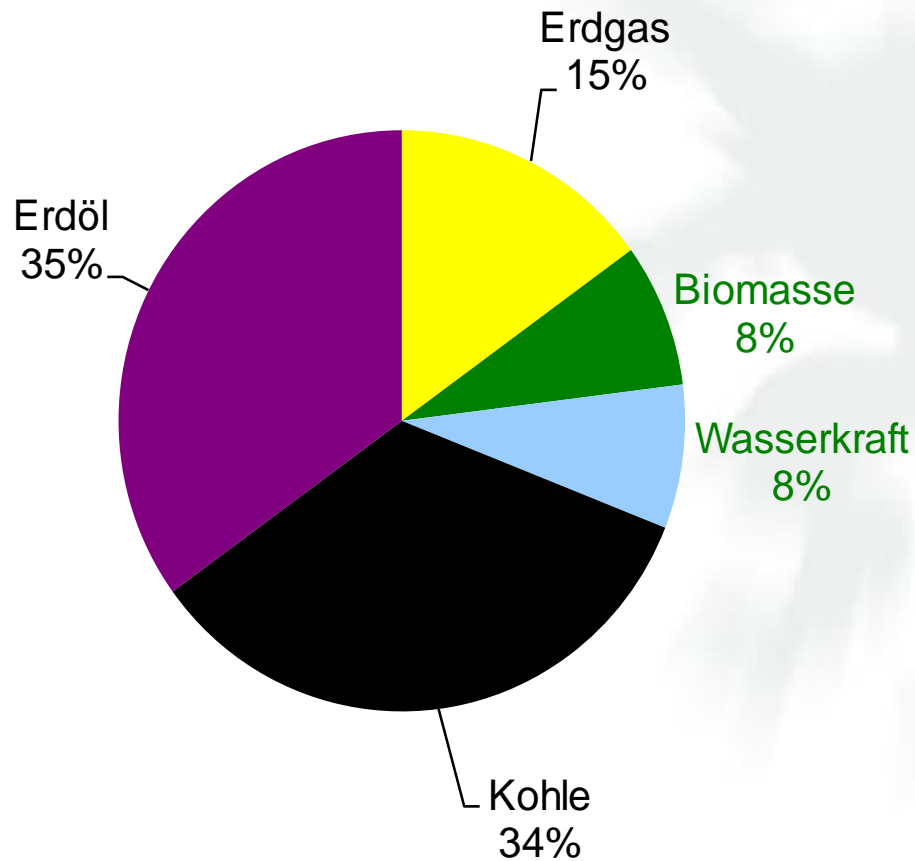
- eigenständige Energiepolitik
- 1,2 Millionen Einwohner
- 16.000 km²



Endenergiebedarf Steiermark

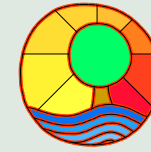


1980



16% Erneuerbare

Fünf Maßnahmenbereiche



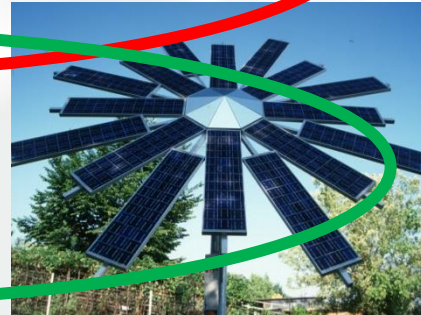
1 Energieeffizienz und Energiesparen

2 Erneuerbare Energien

3 Fernwärme und Kraft-Wärme-Kälte-Kopplung

4 Energieinfrastruktur, Raumordnung und Mobilität

5 Forschung und Bildung, Energieberatung



Toyota Prius

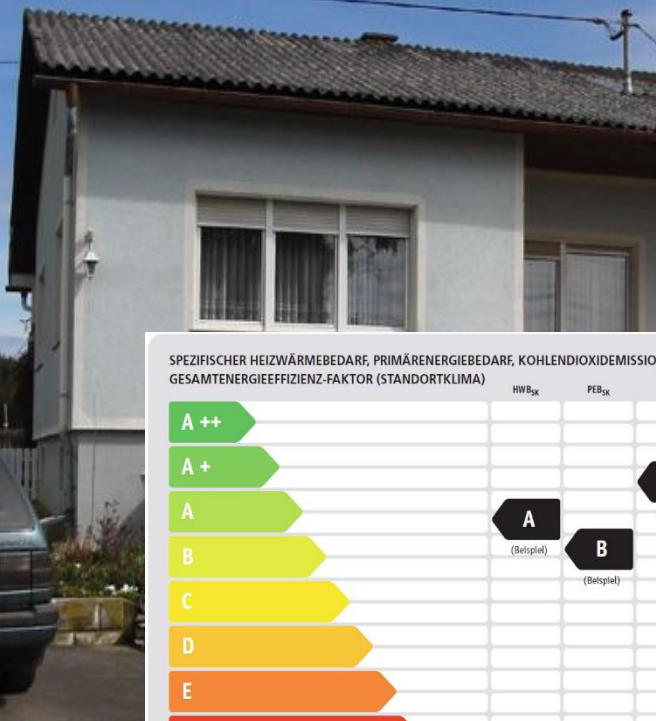
2002/91/EG

2010/31/EU

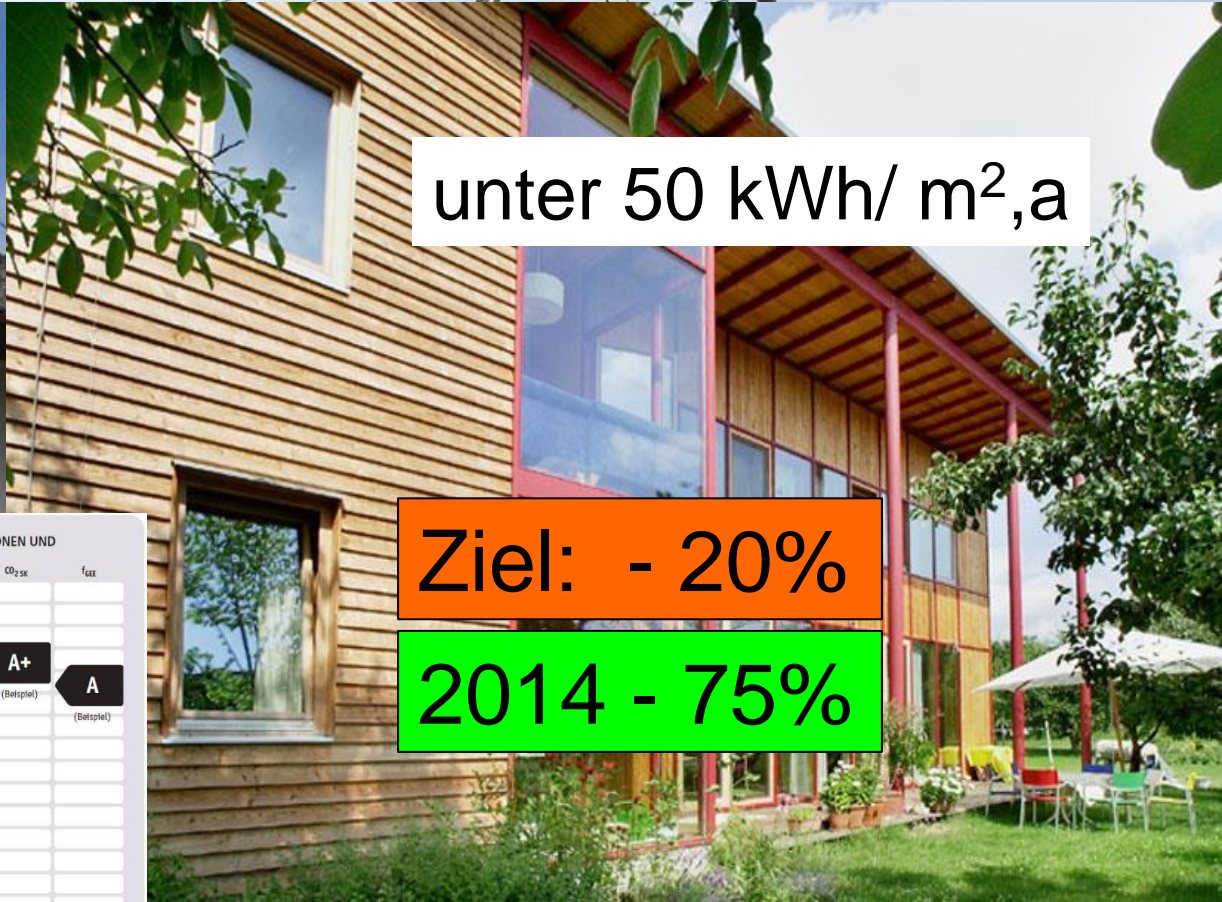
Gesamtenergieeffizienz von Gebäuden



200 kWh/m²,a

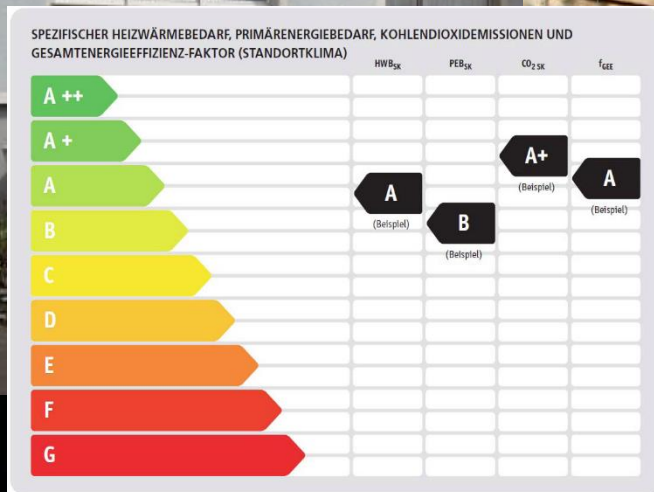


unter 50 kWh/ m²,a



Ziel: - 20%

2014 - 75%



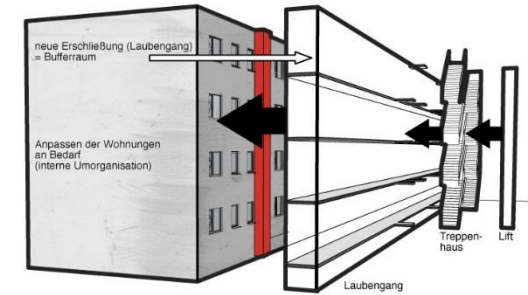
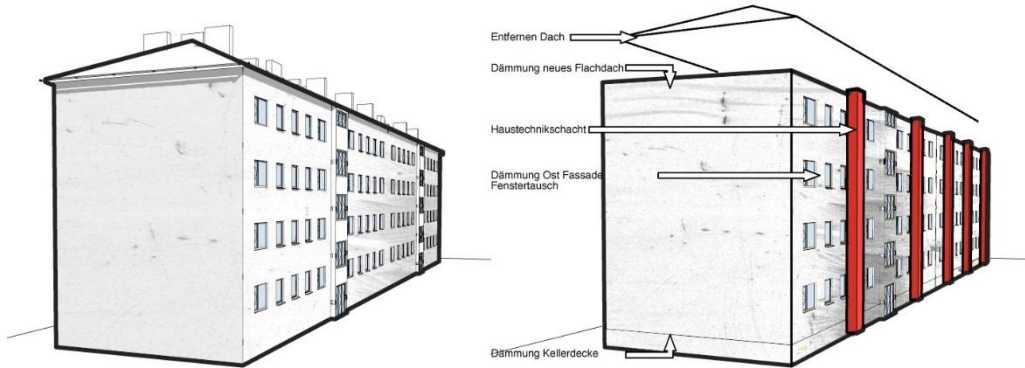
Vom Altbau zum Haus mit **Plusenergie**haustechnologie



Bestand

Isolierte Terrasse statt Satteldach

Neue Treppen und Korridore



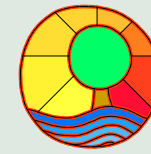
Bestand - Johann Böhm Strasse

Vorgefertigte Fassade inklusive Haustechnik und Fenster

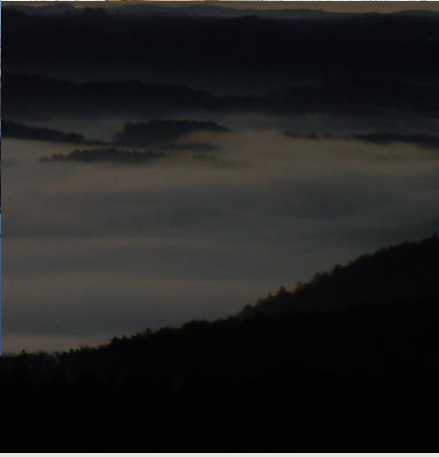
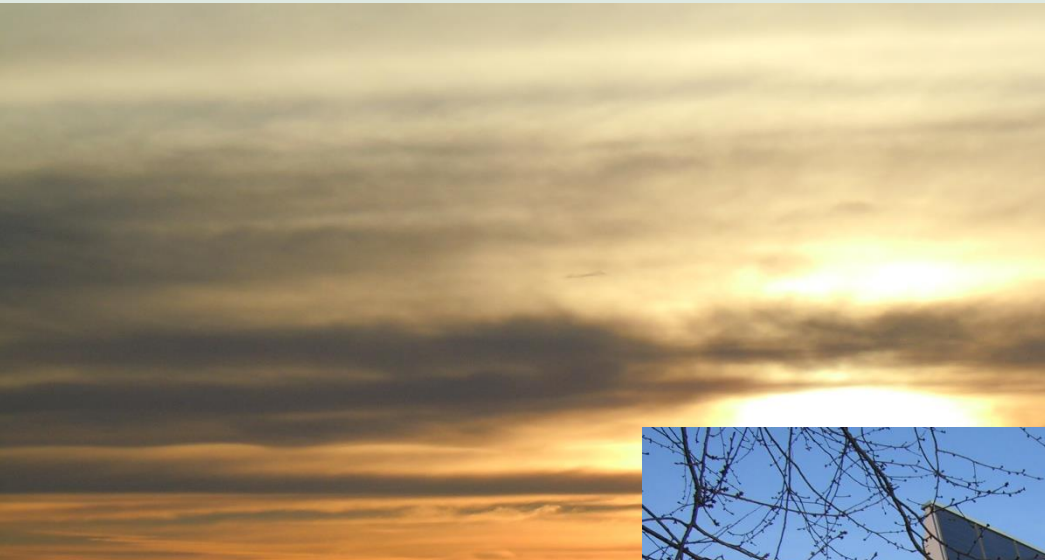


Fotovoltaik und Solarthermie für die Heizung

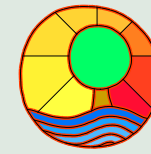
Vom Altbau zum Haus mit **Plusenergie**haustechnologie



Solarenergie



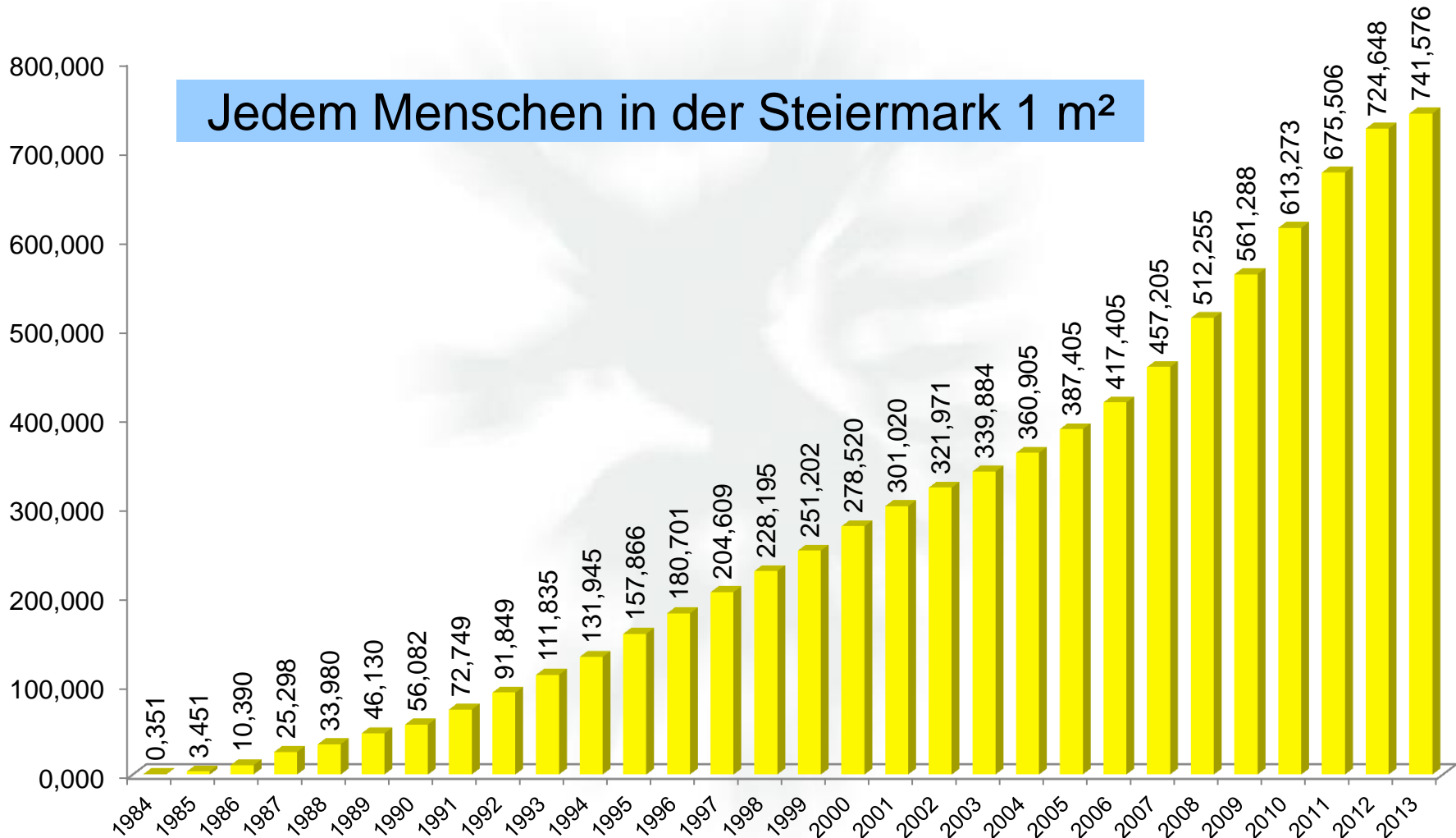
Thermische Großsolaranlage Franziskanerkloster Graz



Heizung und Warmwasser
Fassade: 180 m², Dach: 193 m²
Speicher: 3 mal 5.000 Liter
Solarer Deckungsgrad 24%



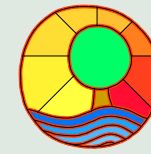
Installierte Kollektorfläche in der Steiermark 1984 – 2013



Solare Kühlung



Solare Weinkühlung





PV Energie Graz



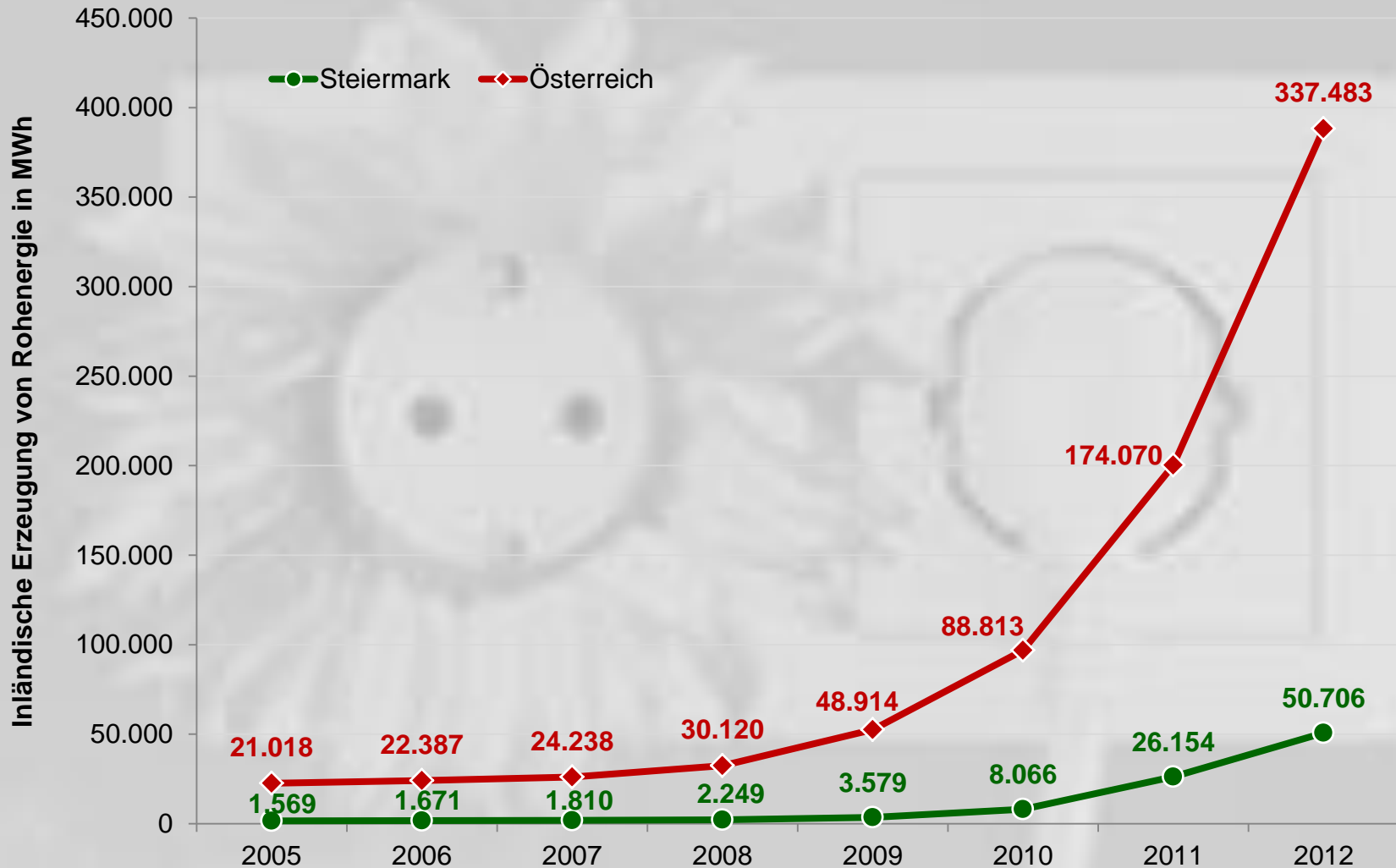
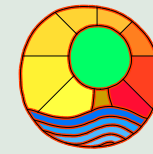
ENERGIE GRAZ

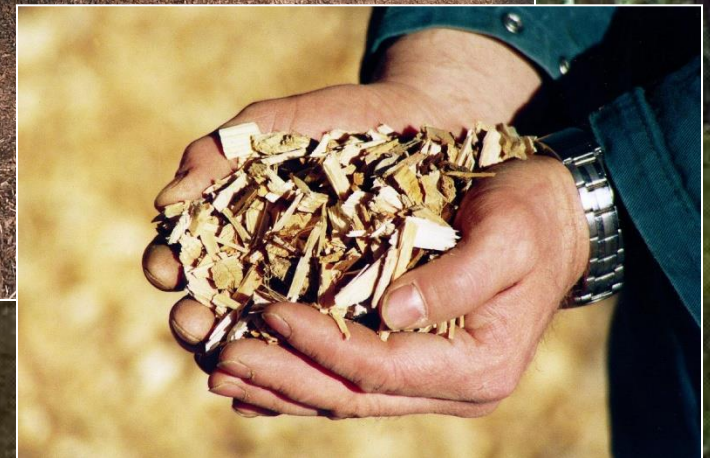


ENERGIE GRAZ

ENERGIE GRAZ

Strom aus Solarenergie (PV) in MWh Steiermark - Österreich 2005-2012





Biomasse

Biomasse Fernwärme und Mikronetze (Steiermark)



160 Fernwärmeanlagen

440 Mikronetze von 100 kW

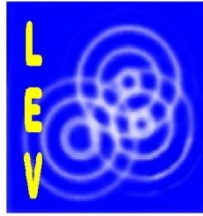
bis 25 MW

bis 1 MW

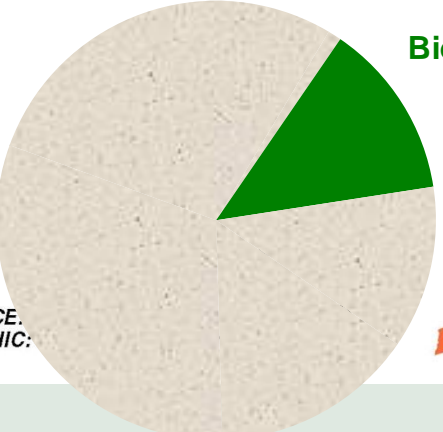
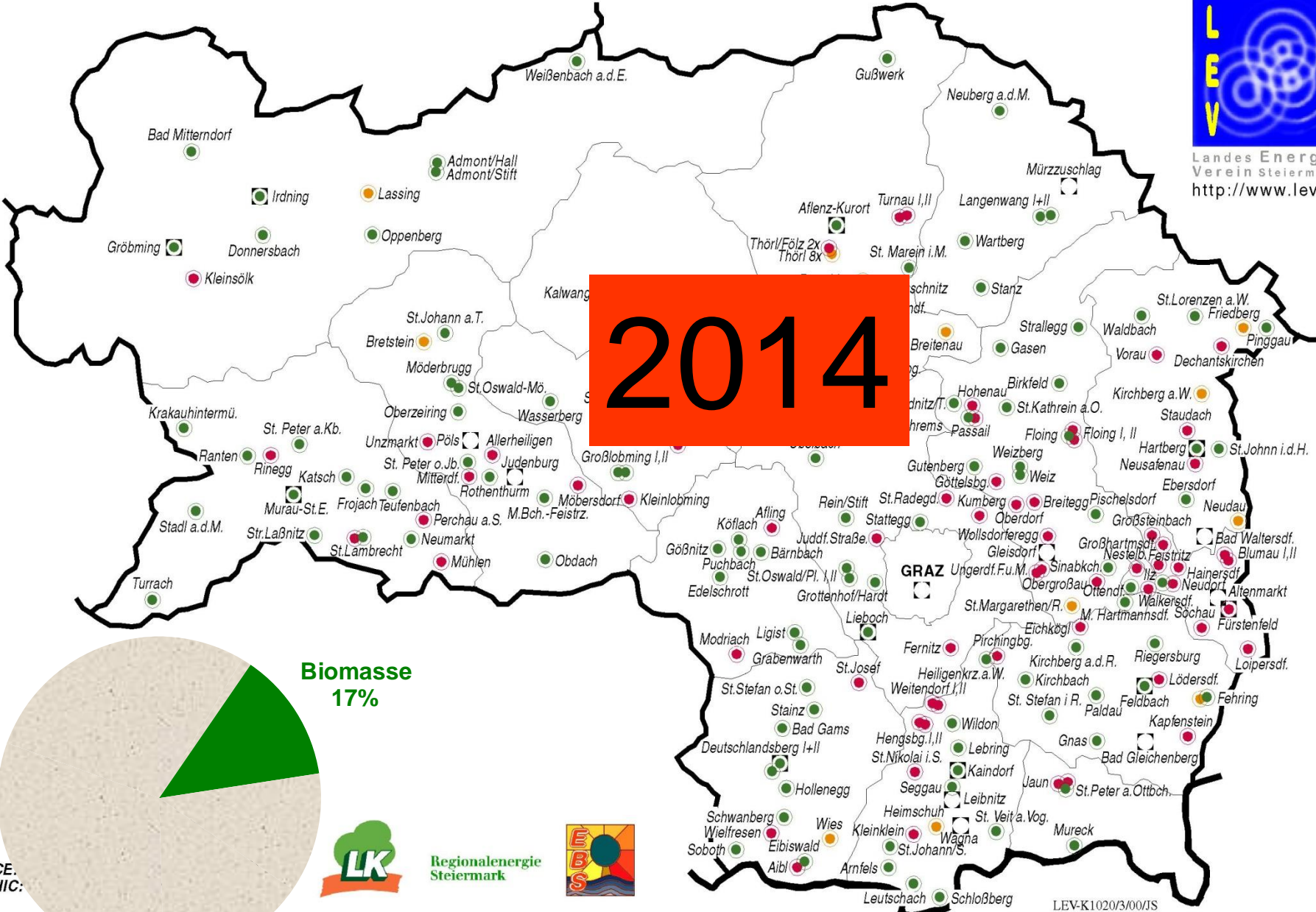


160 Fernheizwerke

440 Mikronetze



Landes Energie Verein Steiermark
<http://www.lev.at>

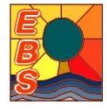


Biomasse
17%

SOURCE:
GRAPHIC:



Regionalenergie Steiermark

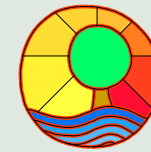


Energiebeauftragter DI Wolfgang Jilek

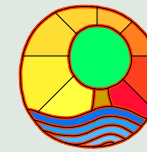


Windpark Oberzeiring
1.400 m
22,5 MW





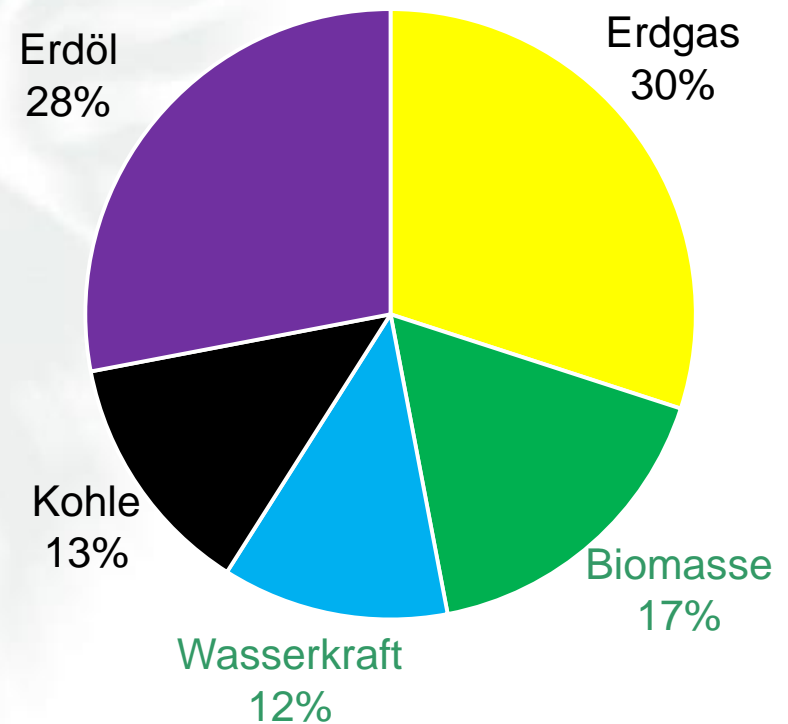
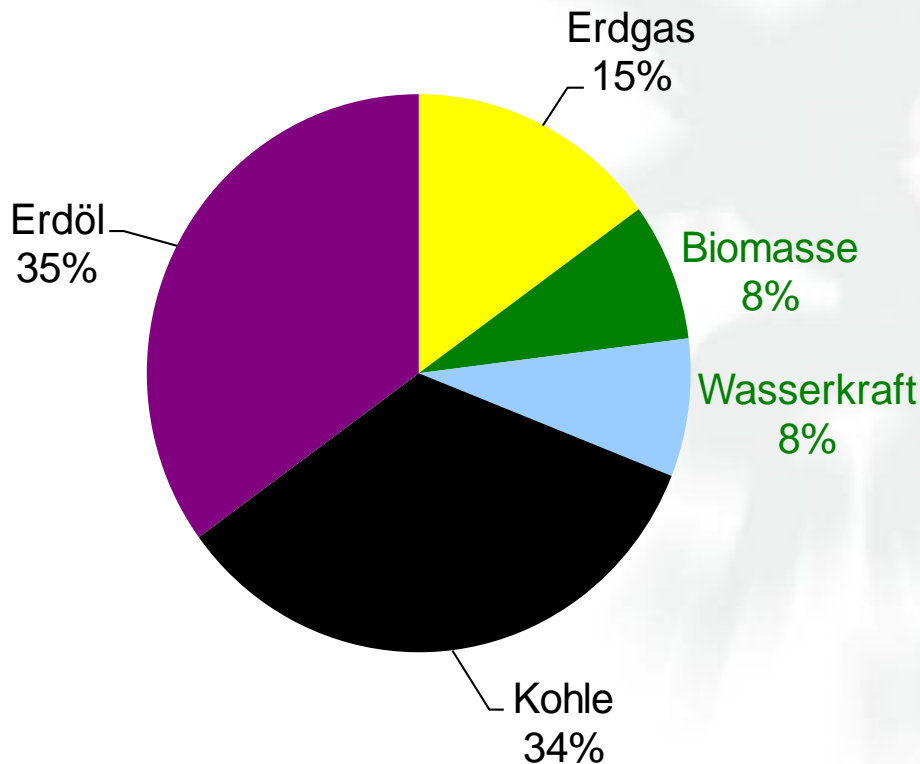
Endenergiebedarf Steiermark



1980

Erneuerbare Energie
16% → 27%

2012



Passivhaus Hochschwab

2200 m
100% Solarenergie

