

Crowd funding of PV-projects against the background of the Lower Austrian Energy Road Map

Ursula Bodisch,
Energie- und Umweltagentur Niederösterreich



Overview

- ▶ The Lower Austrian Renewable Energy Targets and the Importance of Photovoltaic (PV)
- ▶ Introduction of the Energy and Environment Agency of Lower Austria (eNu) and its Services for Crowd funding Projects
- ▶ Crowd funding Modells for PV Projects recommended by eNu

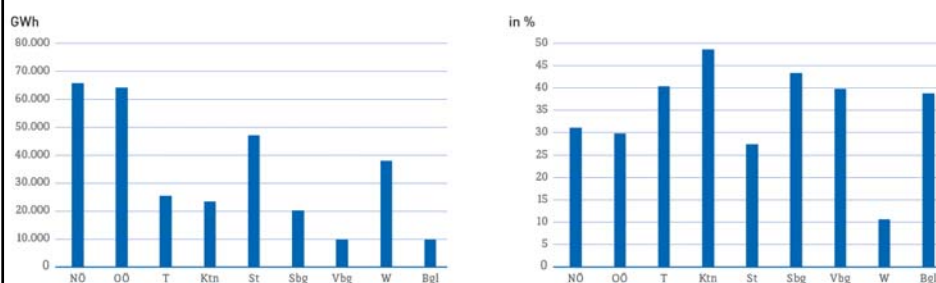
Renewable Energy in Lower Austria

The targets of Lower Austria:

- ▶ 100% electricity from renewable energy until 2015 (2013: 91%)
- ▶ 50% renewable energy of total end energy consumption until 2020 (2013: 34%)
- ▶ Austria as a whole intends to reach 34% renewable energy of the total end energy consumption in 2020

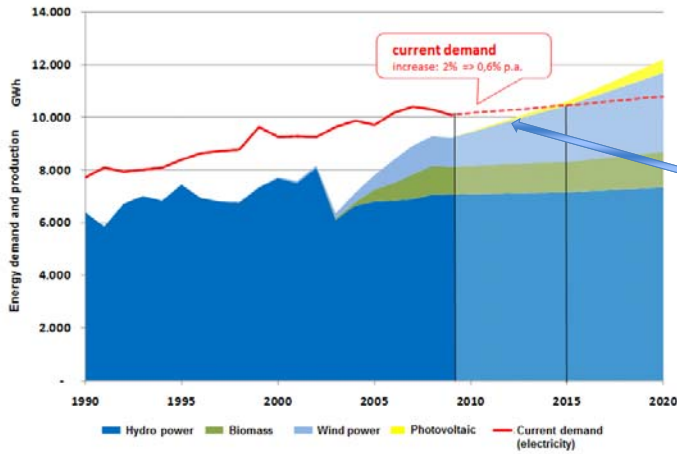
Renewable Energy Austria

Comparison between the Austrian Provinces



2011: Production and share of renewable Energy of the total end energy consumption in the Austrian provinces

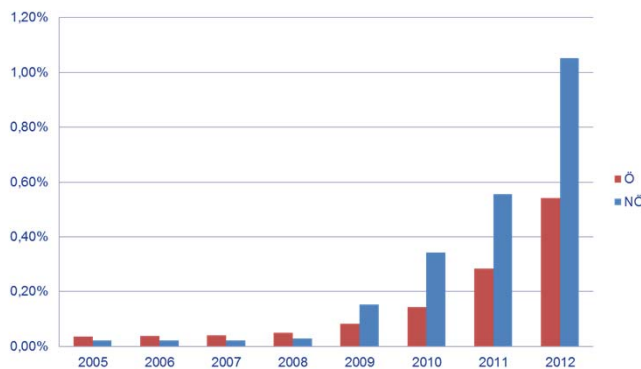
Renewable electricity shares of Lower Austria



PV - currently only one percentage of the electricity demand

Development of PV in Lower Austria

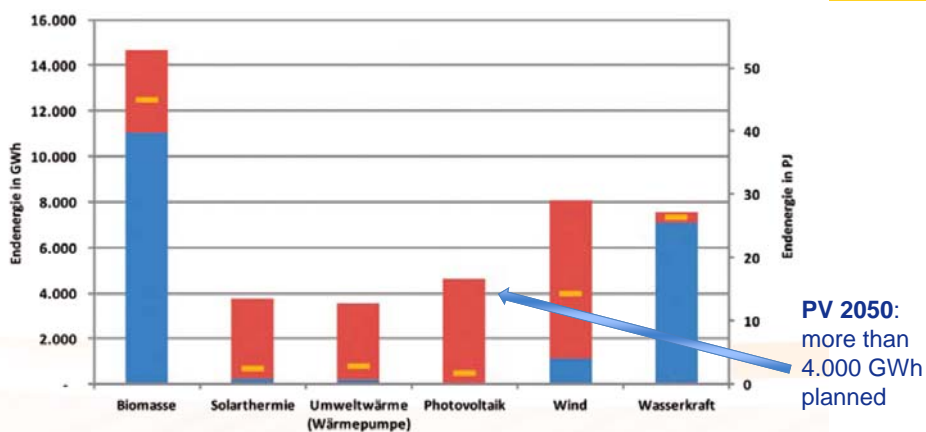
Electricity from PV as share of total demand



Quelle: Statistik Austria, NÖ Energiebilanzen 1988-2012



Future final energy production



ENERGIE-UND
UMWELTAGENTUR
NIEDERÖSTERREICH **enu**

Energy and Environment Agency - eNu

- ▶ Founded in July 2011, in full operation since January 1st 2012
- ▶ Merger of several existing organisations, e.g. "die umweltberatung" NÖ
- ▶ 95 Employees, plus 80 energy consultants
- ▶ 6 Offices – close to the clients



ENERGIE-UND
UMWELTAGENTUR
NIEDERÖSTERREICH **enu**

Energy and Environment Agency - eNu

The Energy and Environment Agency is the **one-stop-shop for energy and environment** in Lower Austria

- ▶ 3 Topic: Energy & Climate, Environment & lifestyle, Nature & resources
- ▶ 3 Target Groups: Citizens, Municipalities, Business
- ▶ 3 Activities: dissemination of information & consulting; Research; support of administration and government

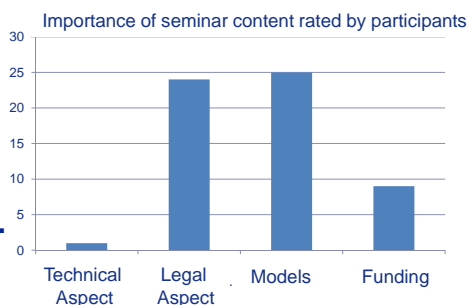
eNu Services for Crowd funding Projects

- ▶ Website on PV
- ▶ General Consulting
- ▶ Seminar PV- Crowd funding
- ▶ Presentations in communities
- ▶ Detailed on-site Consulting



Seminar PV- Crowd funding

- ▶ **2012: 6 Seminars, 135 participants**
- ▶ **2013: 2 Seminars, 32 participants**
- ▶ **2014: 1st Seminar - 16 part. 2nd seminar planned**



Content: Technical and legal aspects, funding, the different options/ models, citizen involvement

PV- Crowd funding consultation

- ▶ **2011: 80 consultations**
- ▶ **2012: 45 consultations**
- ▶ **2013: 30 consultations**
- ▶ **2014: 15 consultations till now**

Realised projects

- ▶ **About 20 projects were realised with the help/support of eNu**

Models recommended by eNu

eNu developed with Brandl & Talos, Raiffeisen Banking Group NÖ-Wien and AGRAR PLUS the following well applicable models (legal certainty, successful implemented examples):

- ▶ Sale-and-Lease-Back - Model
- ▶ Savings bank book - Model
- ▶ Private limited partnership - Model
- ▶ Cooperative - Model

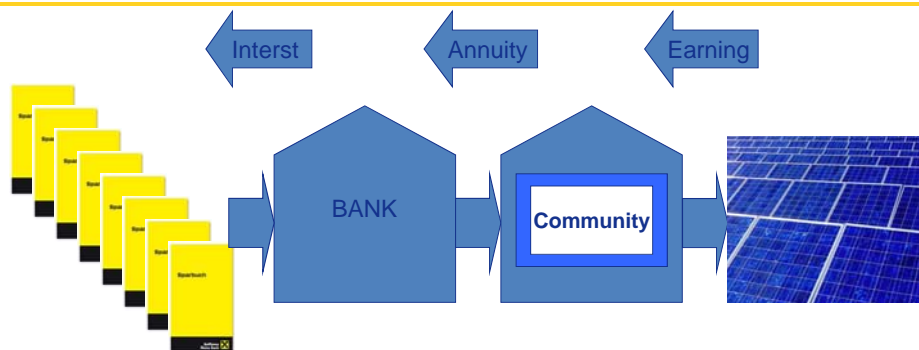
Sale-and-Lease-Back - Model

The most used model. Examples:

- ▶ Schönkirchen, Ober-Grafendorf, Arbesbach, Euratsfeld, Pöchlarn, Randegg

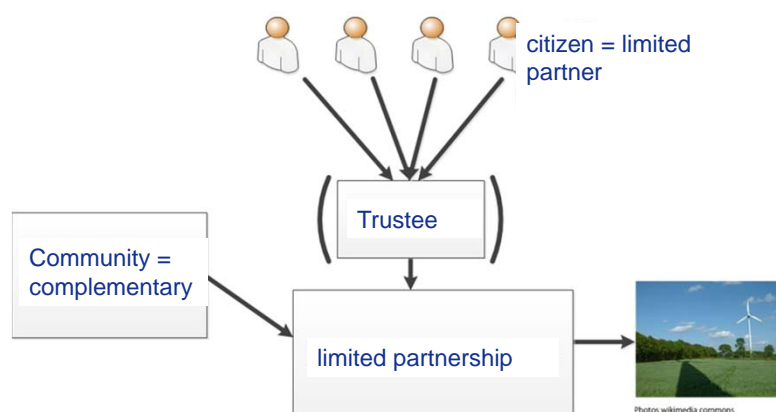


Savings bank book - Model



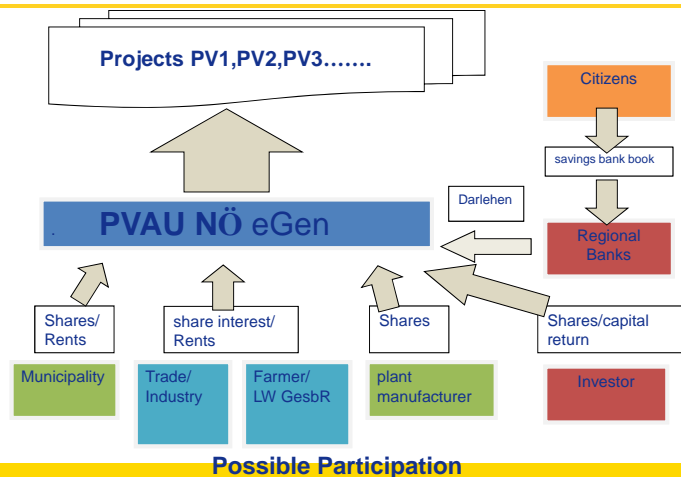
This model is used by Baden, Oberndorf/Melk, Hainfeld, Harmannsdorf, Kirchberg/Pielach

Private limited partnership - Model



This model is used in Mureck.

Cooperative - PVAU NÖ eGen



Possible Participation

ENERGIE-UND
UMWELTAGENTUR
NIEDERÖSTERREICH **enu**

Thank you very much for your attention

Contact:

Ursula Bodisch
Energy and Environment Agency Lower Austria
Grenzgasse 10, 3100 St. Pölten
ursula.bodisch@enu.at
+43(0)27 42 / 219 19
www.enu.at

ENERGIE-UND
UMWELTAGENTUR
NIEDERÖSTERREICH **enu**