

The logo for Interreg Central Europe, featuring the word "Interreg" in a large, bold, blue sans-serif font, with "CENTRAL EUROPE" in a smaller, blue sans-serif font below it.

CENTRAL EUROPE



European Union
European Regional
Development Fund

PROSPECT2030

A stylized map of Europe in a light green color. Overlaid on the map is a large, 3D green cube with a white grid pattern on its faces. The text "TAKING COOPERATION FORWARD" is written in white, bold, sans-serif capital letters to the right of the cube.

TAKING
COOPERATION
FORWARD



Peer to peer learning session

Webinar | 28 January 2021



**Boosting pv-expansion through initiatives at
public, private & company level**



PROSPECT2030 | European Center for Renewable Energy Güssing (EEE) | Andrea Moser

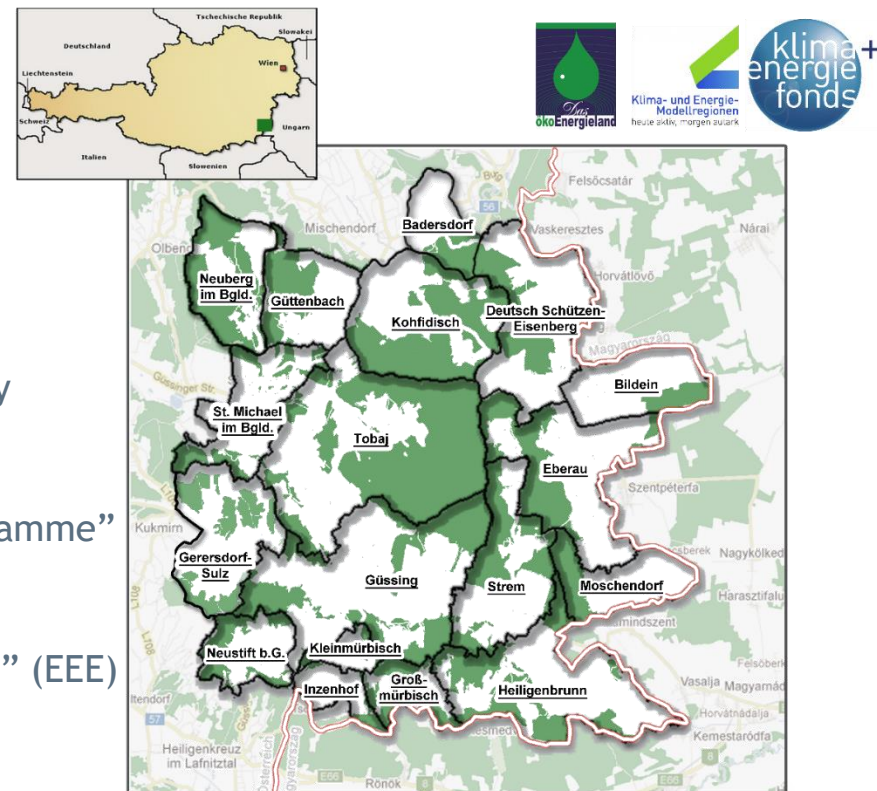
The European Center for Renewable Energy Güssing

- EEE was founded in 1996 and is a:
 - service and consulting company and acts as a kind of energy agency
 - umbrella organization for all energy-related activities in the region
 - developer of sustainable, regional & municipal energy concepts and energy strategies
 - network organization and partner in various national & European projects
 - coordination center in the fields of research, development & project management



The EcoEnergyland

- Association of municipalities founded in 2004
- 19 municipalities / 17.600 inhabitants
- 420 km² / 45 % forest
- Main goal: Phase-out of fossil fuels and self-supply by local/regional available renewable resources
- Joined the “Climate- and Energy Model Region Programme” in 2009
- Supported & lead by the “Model Region Management” (EEE)



The EcoEnergyland

- ❑ Initiatives were based on the two main resources → **BIOMASS & SUN**
- ❑ **1st step: realization of initiatives & measures for the use of biomass**
 - ❖ 1 biomass power plant ($1.3 \text{ MW}_{\text{el}}$, 7 MW_{th})
 - ❖ 13 biomass heating plants ($\approx 22 \text{ MW}_{\text{th}}$)
 - ❖ 4 biogas plants ($2.5 \text{ MW}_{\text{el}}$, $1.5 \text{ MW}_{\text{th}}$)



- ❑ **2nd step: initiate pv-measures for increasing renewable electricity production**



THE APPROACH

Municipal initiatives

MUNICIPALITIES AS ROLE MODELS



- Public Participation Model
- Initiatives for pv-installations on public buildings/infrastructure
- Consulting Services & Funding support

Private initiatives

CITIZENS AS MULTIPLIERS



- Rooftop Programms
- Participation at municipal projects
- Consulting Services & Funding support

Company initiatives

COMPANIES AS INFLUENCERS



- Offering of a special financing model "rental model"
- Consulting Services & Funding support



INITIATIVES AT MUNICIPAL LEVEL

Public-Participation model



❑ The idea behind:

- ❖ Create a new investment opportunity for citizens which promises higher interest rate than the passbook
- ❖ Possibility for private people to invest in renewable energy projects in their municipality
- ❖ Raising awareness in the field of photovoltaics
- ❖ Enabling municipalities to realize PV plants without equity

❑ How it works:

- ❖ Prerequisite → availability of a reasonable feed-in tariff
- ❖ Having suitable public buildings for pv-installation
- ❖ Planning of the pv-plant & calculation of the revenue & rates of return
- ❖ Promotion of the possibility to invest in sustainable energy projects

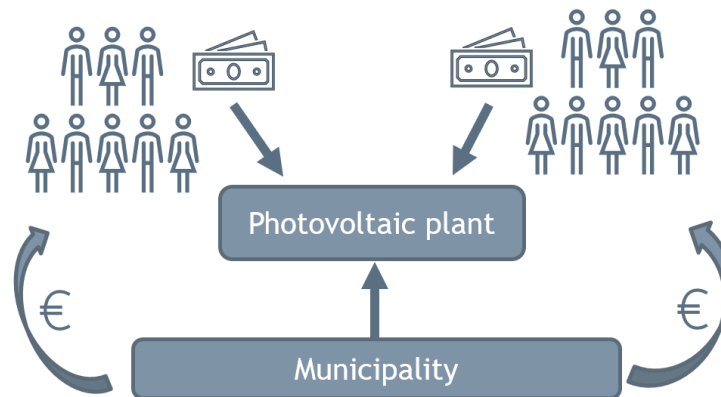


INITIATIVES AT MUNICIPAL LEVEL

Public-Participation model

□ The participation:

- ❖ Citizens of the municipality can participate by purchasing shares of the pv-plant
- ❖ One share corresponds to about € 1.000,-
- ❖ Participation is a kind of "silent participation" that refers to the operation of the plant & thus also in the profit & loss
- ❖ Citizens receive an annual profit advance of approx. 3-4%
- ❖ Invested capital is paid out again after 13 years



INITIATIVES AT MUNICIPAL LEVEL

Public-Participation model

□ The results :

- ❖ Public Participation plants in 40% of the EcoEnergyland municipalities
- ❖ Overall capacity 400 kW_{peak}
- ❖ The largest one has a size of 170 kW_{peak}



INITIATIVES AT MUNICIPAL LEVEL

Promoting pv-installations on public buildings/infrastructure

❑ Initiatives based on 2 different models:

1. Public Participation Model

- public participation model was also used to increase pv-installations on public infrastructure (*biomass plants, sewage sludge plants, pump stations, etc.*)

2. Combination of different subsidy schemes

- EEE detected the possibility of combining 2 different grants
 - pv-investment subsidies from the climate- and energy fund (40%)
 - investment allocations from the land government (50%)
- Since 2020 there is again a possibility for subsidy combination at municipal level:
 - COVID-19 investment subsidy (50%)
 - ERDF funds (50%) OR investment subsidies of the climate- and energy fund (40%)



INITIATIVES AT MUNICIPAL LEVEL

Promoting pv-installations on public buildings/infrastructure

□ The results :

- ❖ pv-plants on all sewage sludge plants (5 plants / 135 kW_{peak})
- ❖ pv-plants on district heating plants (3 plants / 155 kW_{peak})



INITIATIVES AT PRIVATE LEVEL

Rooftop Programme

□ The idea behind:

- ❖ People increasingly buy different things on installments
- ❖ Why not to offer pv-purchase on installment?
- ❖ The idea was to create an offer for citizens to purchase a pv-plant for a monthly rate of about € 50,-

□ How it works:

- ❖ EEE elaborated a pv-installment purchase model called “50 rooftop programme”
- ❖ EEE cooperated with a local installer and a regional bank
- ❖ A plant size of 3.5 kW_{peak} was defined & a price with the installer was fixed
- ❖ An agreement with the regional bank was made to provide us the overall amount for 50 pv-plants with a fixed interest rate over the whole financing duration



INITIATIVES AT PRIVATE LEVEL

Rooftop Programme

❑ The result:

- ❖ pv-plant size: 3.5 kW_{peak}
- ❖ monthly rate: 53 €
- ❖ fixed interest rate: 1.8 % p.a.
- ❖ duration: 12 years

❑ The participation:

- ❖ people needed to register for a plant (first come - first serve)
- ❖ EEE organized the appointments with the installers
- ❖ citizens needed a positive financing notice from the regional bank
- ❖ then the plant was ordered & installed

❖ Advantages:

- ❖ people just needed to announce interest (everything else was organized by EEE)
- ❖ pv-plant produces from the first day on green electricity at the citizens homes
- ❖ citizens save from the first day on electricity costs on their bills



INITIATIVES AT PRIVATE LEVEL

Rooftop Programme

□ The results :

- ❖ High demand
- ❖ The 50 Rooftop Programme has been offered for 3 years in a row
- ❖ 150 private pv-installations could be handled through the programme
- ❖ Multiplier effect and additional pv-implementations cannot be precisely evaluated



INITIATIVES AT COMPANY LEVEL

“Rental Model” for commercial pv-investments

□ How it works :

- ❖ A company (e.g. EEE) rents a roof area of a commercial building/hall for the construction of a pv-plant
- ❖ The commercial company gets a fixed rent per m² roof area for a fixed period
- ❖ The operating company builds a pv-plant on the roof area
- ❖ pv-plants is operated for the production of green electricity for a certain period of time (e.g. duration of the feed-in tariff - 13 years)
- ❖ After this period the plant becomes the property of the commercial company that owns the building/hall



INITIATIVES AT COMPANY LEVEL

“Rental Model” for commercial pv-investments

❑ Advantages:

- ❖ Positive image promotion for the business through the generation of green electricity
- ❖ The company receives rent for the roof area (guaranteed rental income)
- ❖ Transfer of the PV system to the OWNERSHIP of the company after a fixed period (e.g. 13 years)
- ❖ No equity capital required
- ❖ From the 14th year, another 15-25 years of income from the sale or own use of pv-electricity

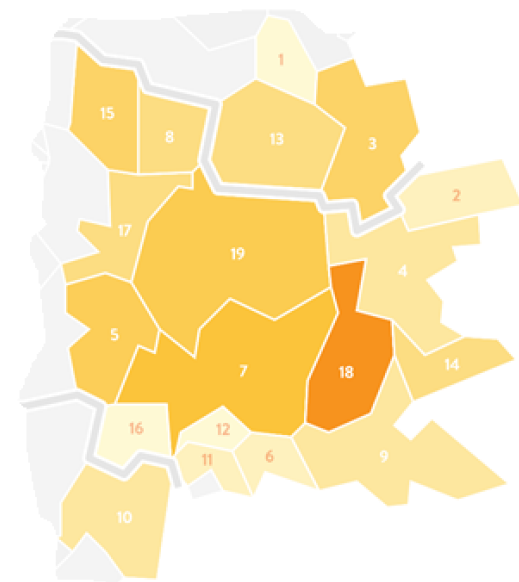
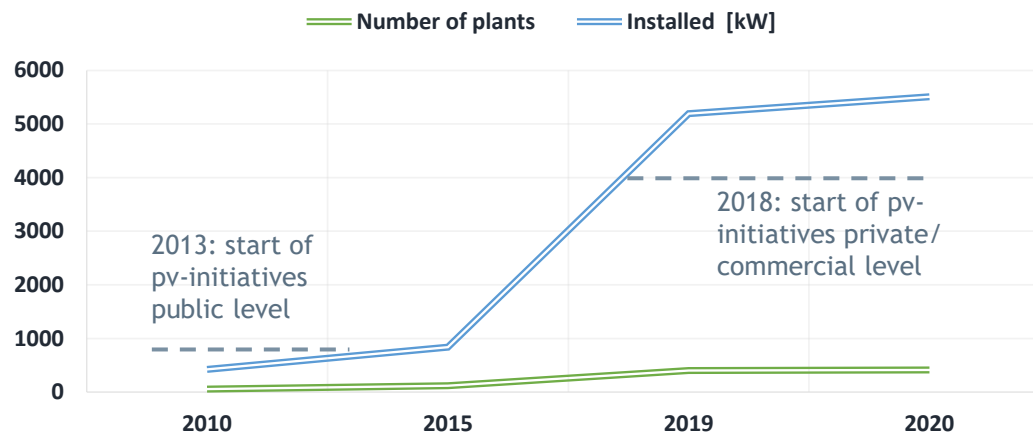


RESULTS

PV-Development in the EcoEnergyland

❑ Installed pv-capacity:

- ❖ 2000: 60 plants / 450 kW_{peak}
- ❖ 2015: 120 plants / 850 kW_{peak}
- ❖ 2019: 400 plants / 5.200 kW_{peak}
- ❖ 2020: 460 plants / 6.000 kW_{peak}



THANK YOU FOR YOUR ATTENTION!



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