

Biomass Association Upper Austria

Bioenergy in Upper Austria and the role of the
Biomass Association Upper Austria

Matthias Raschka

Biomass Association Upper Austria

- founded in 1992 as a turntable for the successful implementation of economic and ecological biomass projects
- central focus on biomass district heating systems
- the main aim is the independent and competent support of our members (DH, biogas, CHP, companies, municipalities, ...)

What we do:

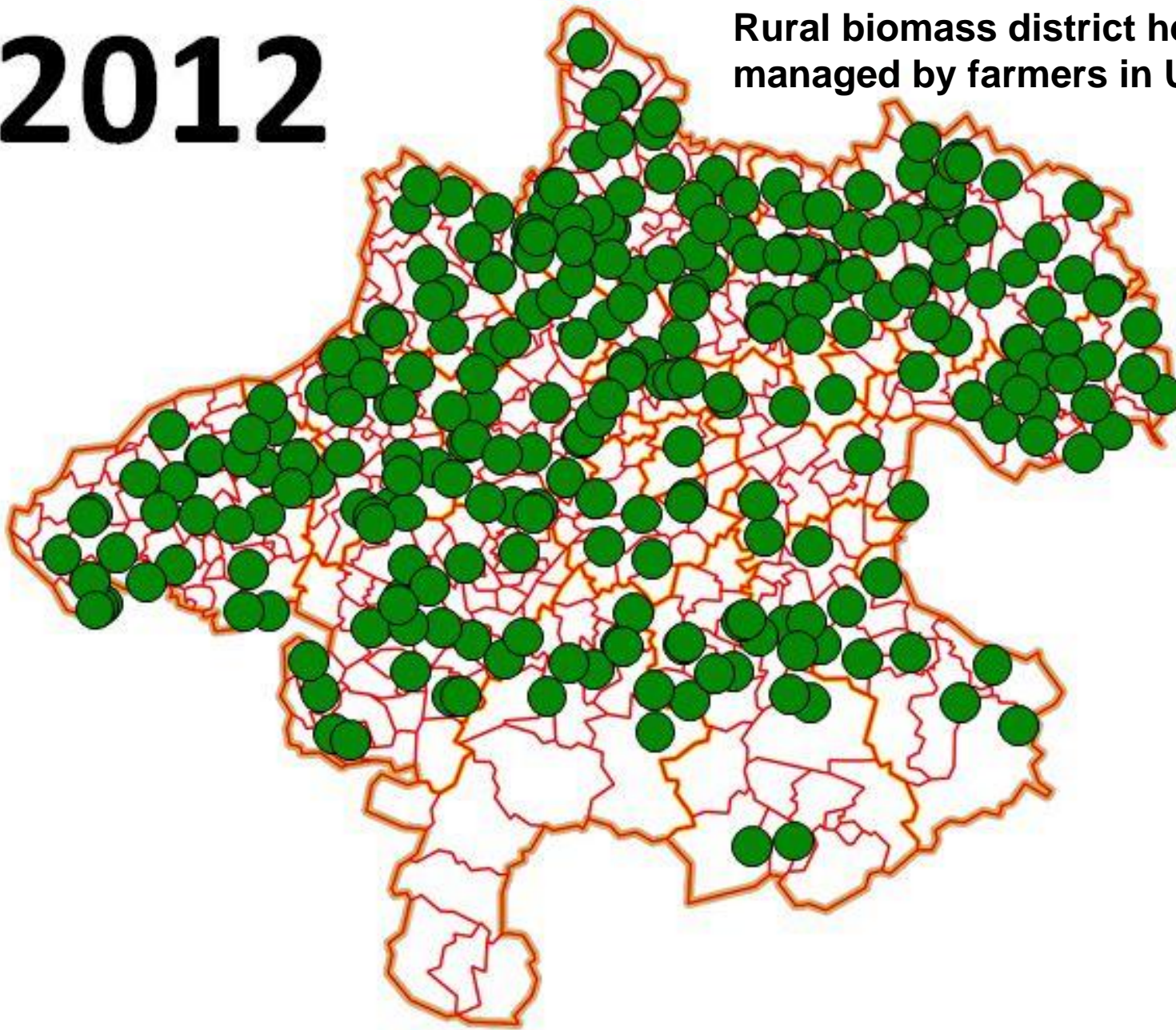
- advice and support projects
- technical planning – technical office
- quality management (optimization consisting plants)
- support in funding subvention (government subsidy)
- special training, workshops, public information events, excursions, ...
- research projects



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2012

Rural biomass district heating projects managed by farmers in Upper Austria

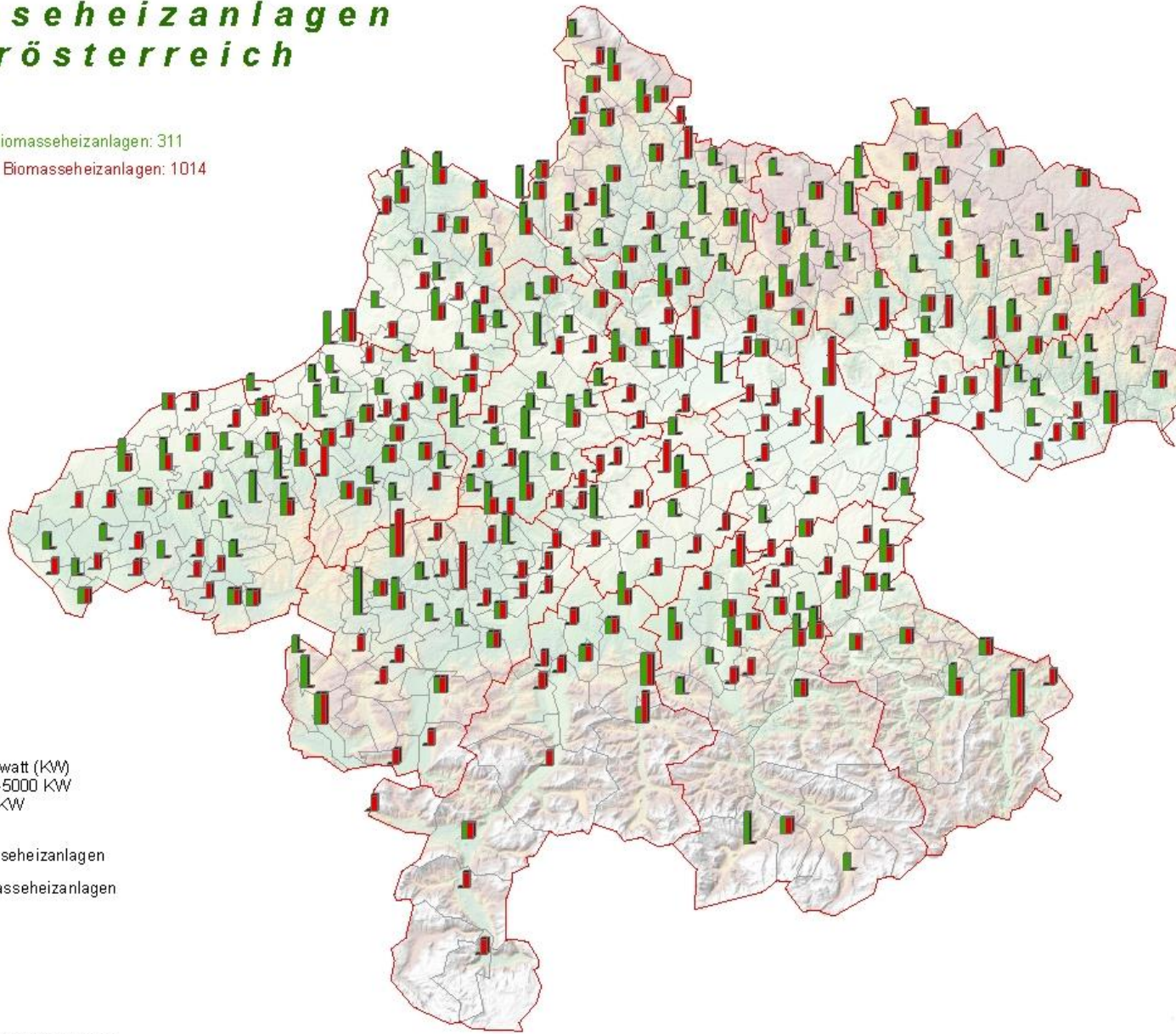


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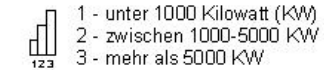
Biomasseheizanlagen in Oberösterreich





Anzahl der bäuerlichen Biomasseheizanlagen: 311

Anzahl der gewerblichen Biomasseheizanlagen: 1014



Legende:



-  bäuerliche Biomasseheizanlagen
-  gewerbliche Biomasseheizanlagen
-  Gemeindegrenzen
-  Bezirksgrenzen

Quelle: Biomasseverband OÖ, Umwelt- und Anlage Technik (Land OÖ),
Abt. f. Land- und Forstwirtschaft (Land OÖ)
Stand: 2013, Kartographie: Amt der Oö. Landesregierung, DO RIS-Systemgruppe, Karte n.Nr. 4696-2011 (B)



District heating plants in Upper Austria

last update 2014/02/06

managed by farmers	314	
total installation power	268.000	kW
wood consumption per year	321.600	m ³
reduction of CO ₂ per year	156.000	t
substitute oil per year	60.300.000	l
commercial operation	1.012	
total installation power	296.925	kW
wood consumption per year	356.300	m ³
reduction of CO ₂ per year	172.832	t
substitute oil per year	66.806.000	l
total amount	1.326	
total installation power	564.925	kW
wood consumption per year	677.900	m ³
reduction of CO ₂ per year	328.832	t
substitute oil per year	127.106.000	l



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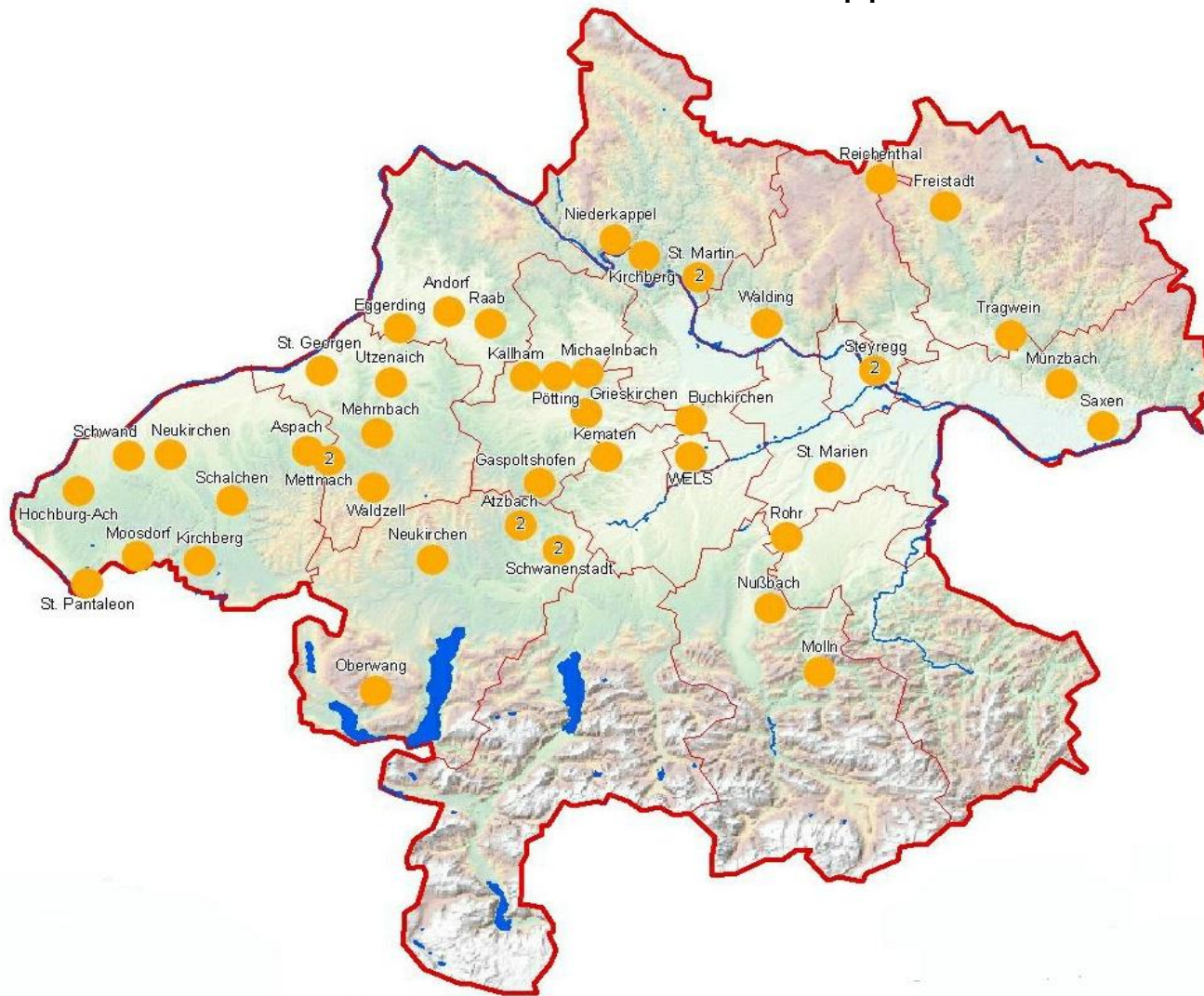
- 5.600 heat customers
- 4.700 farmers provide wood chips from their own forests



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72 biogas plants

42 are members of the biomass association upper austria



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2 combined heat and power plants (CHP) operated by farmers

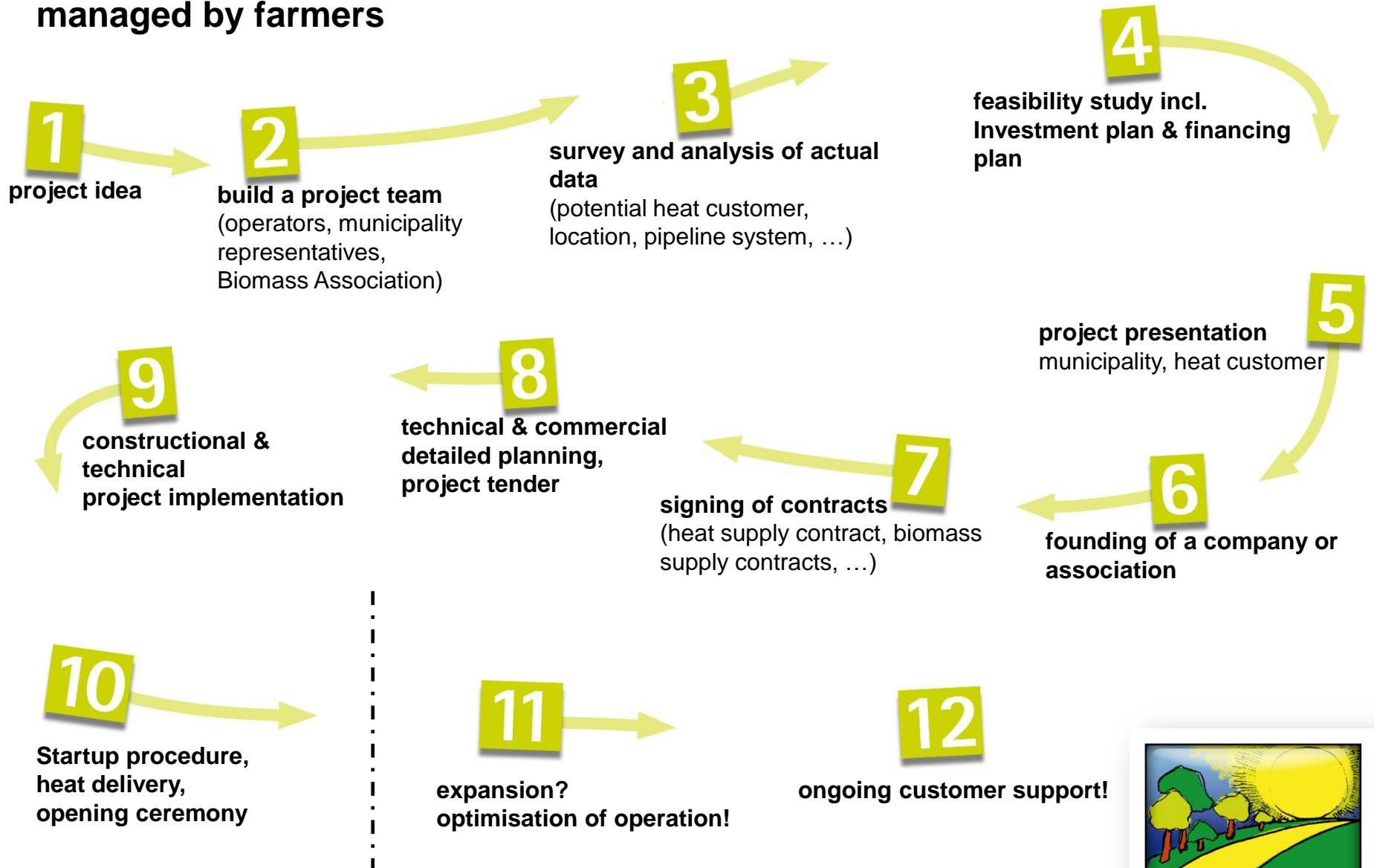


	300 kW el. and 660 kW therm.	30 kW el. and 66 kW therm.
wood consumption	3.600 m ³	360 m ³
power production	2.100.000 kWh (570 households)	206.500 kWh (57 households)
heat generation	4.620.000 kWh (230 households)	481.800 kWh (22 households)



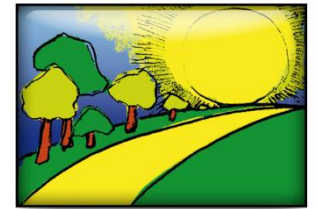
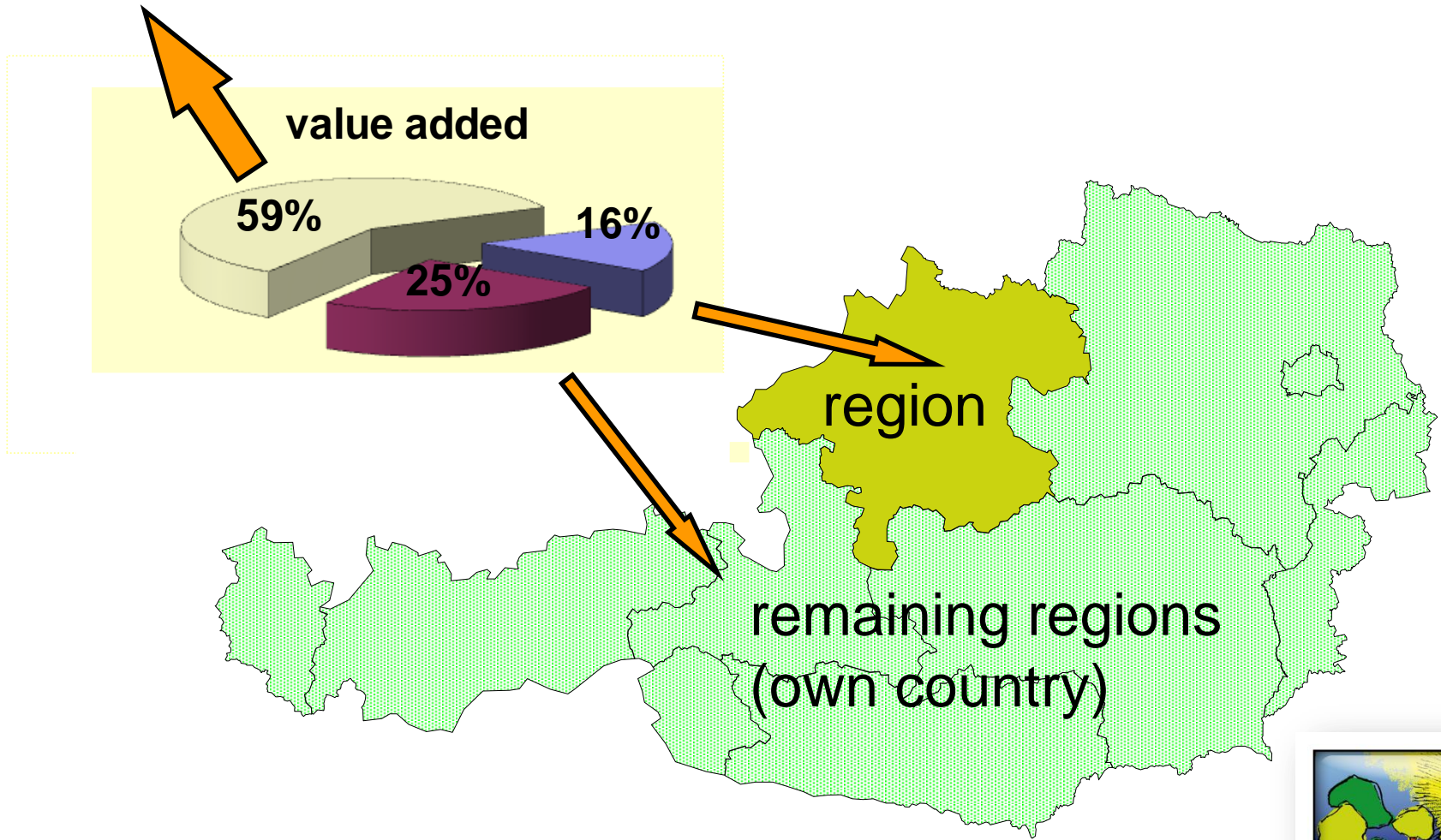
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Example of a typical Upper Austrian rural biomass district heating project managed by farmers



oil and gas heating

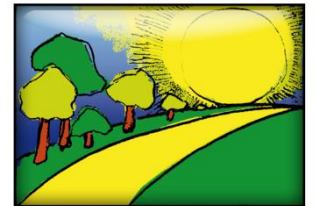
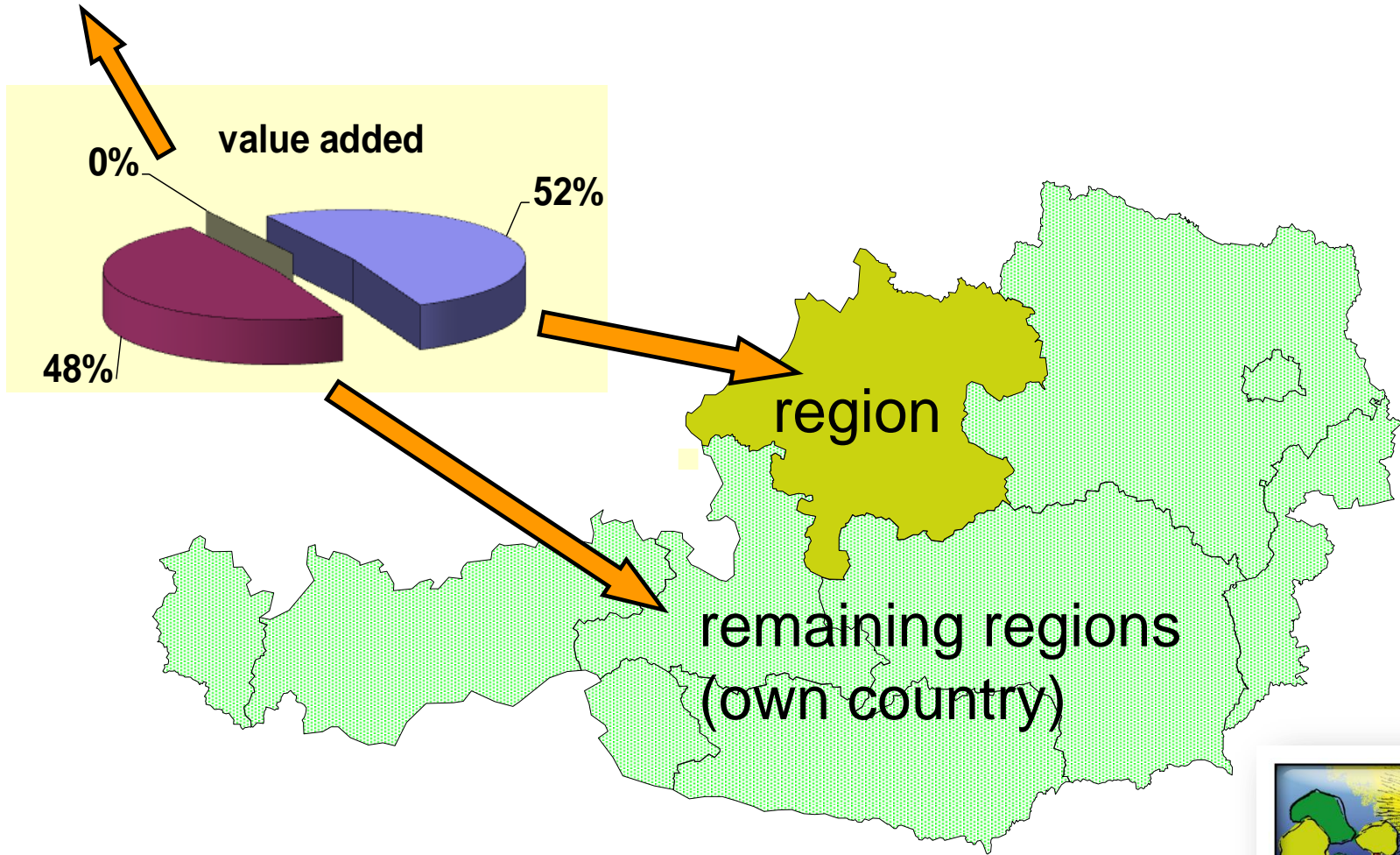
foreign countries



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biomass heating

foreign countries



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Pale District Heating – Preparation of Design and Tender Documents

installed power: 25 MW
heat supply network: 5 km
heat customer: 110 buildings



what we're planning for this project:

heat delivery stations („Fernwärmeübergabestationen“)
boiler house with biomasse - double boiler plant
oil-fired boiler for peak load and network coverage in case of an emergency
storage tank 100 m³
weighbridge 60 t, length: 18 m

investment volume: 8 Mio. €

project financing:

European Bank for Reconstruction and Development (EBRD)



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Thank you all for listening!

Contact:

Mr. Kristian Barac
Interpreter (tumač, преводалац)

+43 (0) 650 56 18 111
kristian.barac@lk-ooe.at



BIOMASSEVERBAND OÖ

Ing. Alfred Graf
*Technische Planung
Biomasse-Projektleiter
Qualitätsmanagement*

4021 Linz, Auf der Gugl 3
Telefon +43 (0) 50 6902 1631
Fax + 43 (0) 50 6902 91631
alfred.graf@lk-ooe.at



BIOMASSEVERBAND OÖ

Dipl.-Ing. Matthias Raschka
Geschäftsführer

4021 Linz, Auf der Gugl 3
Telefon +43 50 6902 1630
Fax + 43 50 6902 91630
matthias.raschka@lk-ooe.at



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