

CoolHeating Presentation

BIO-toplina Güttenbach- Pinkovac

Dobro Došli

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Ecology / Economy / Social



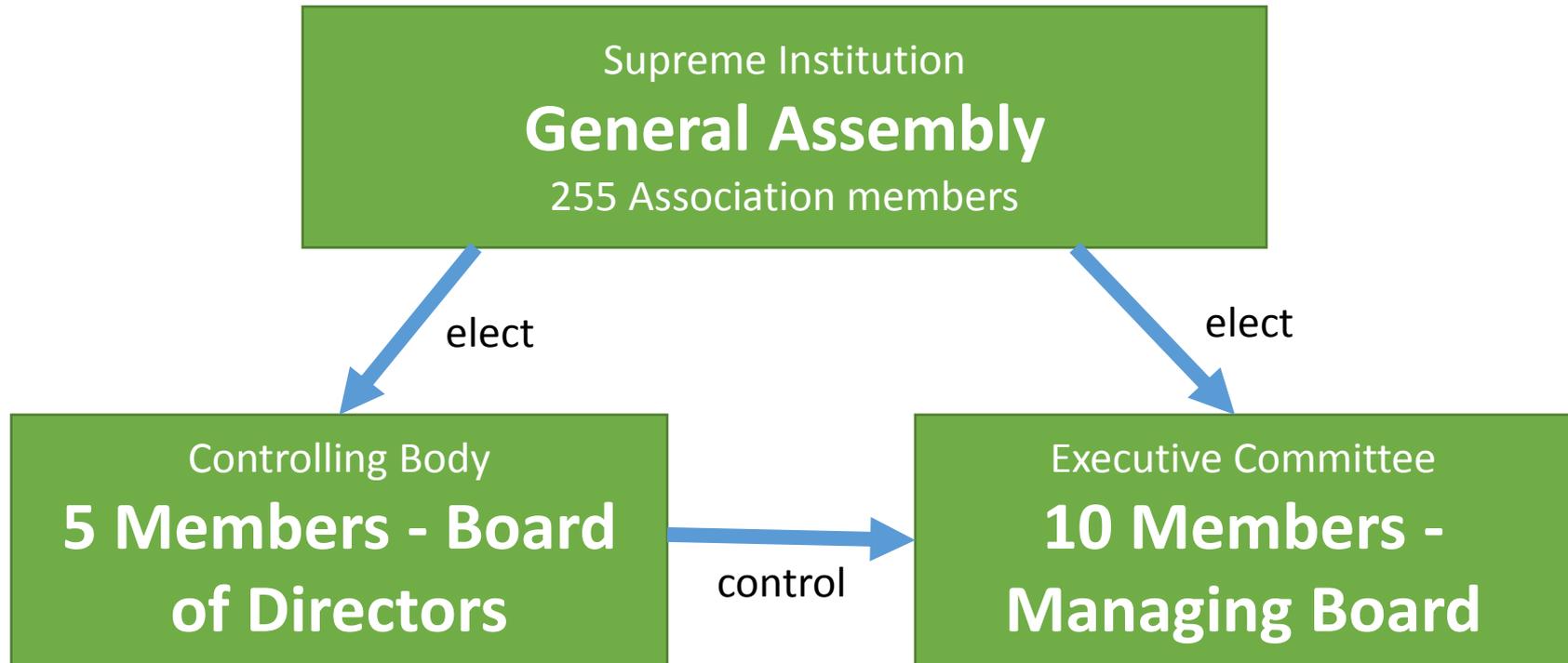
- association/cooperative with 255 members
- in the municipality Güttenbach / Pinkovac
 - 924 inhabitants / 350 households
 - Heat consumers: 73% of households (!)
- Goal
 - Economic boost of members through supply with renewable heat and domestic hot water (all year)

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- Purpose of the association
 - Operation of a heating plant with biomass and district heating grid to produce heat and domestic hot water
 - Operation of a CHP for electricity (own consumption)
 - Sale, trade and purchase of biomass
 - Auxiliary transactions and construction of necessary buildings and facilities
 - Renting of machines and equipment

- Organisation of Bio-toplina Pinkovac as a association



Slogan: together – secure – regional

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- Investment of total € 4,644,329.- for
 - District heating grid: **12,385m** trench
 - Heating stations at consumers: about **250** with heat meter and control device
 - Oil peak load boiler: **1.35 MW** since 1997
 - Biomass boiler: 1.7 MW (**2.5 MW**) since 2007
 - Photovoltaic: **20 kW** since 2017

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- Operational costs (per 30.06.2016)
 - Connection fee (once) € 9,000.-
 - Annual basic fee € 300.- per year
 - Heat costs € 0.09 per kWh

- Sold heat per household on average 15,380 kWh per year
 - € 1,380.- annual total costs per household

- Largest consumers
 - Elders people home and one larger company with 50 kW each
 - Households with 10 to 15 kW each

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- Financing of the project

1997 / 1998 - loan	€ 4,600,000.-	~4%/a
2001 – pay-out of subsidies (43,7%)	- € 2,010,200.-	
Share for association	€ 2,589,800.-	
+ interest	€ 400,000.-	!
Total to finance	€ 2,989,800.-	
Status of loan per 30.06.2016	€ 800.000.-	0.96% 3-month Euribor

Note: Dynamic view is necessary!

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- Important characteristic numbers

Sales revenue	€ 357,000.-	
Biomass (wood chips)	€ 160,000.-	max. 30km
Allowance for depreciation	€ 216,500.-	
Profit	€ 27,066.-	
Cash flow	€ 131,548.-	

- 2 operators (service contract)
- 4 persons (alternate) for short daily control of plant (~20min)

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- Summary

- Form of organisation: depend on goals and purpose of the company; liability
- Own capital: 20% of investment at start of the project
- Credit capital: dynamic view; duration of investment
- Subsidies: written letter of acceptance; pay-out after evidence of invoices

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Hvala vam na pažnji

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