

ENERGY DEMOCRACY IN HEATING AND COOLING

Jörg Dürr-Pucher, Bad Waldsee, November 24th 2021



PLATTFORM RENEWABLE ENERGIES IN THE LÄND

100 % Future Energy for Baden-Württemberg.

Jörg Dürr-Pucher| 24.11.2021

WHO WE ARE

The umbrella organisation



Biogas



Geothermal energy



Wood energy



Solar energy



Hydro power



Wind energy

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- **Coalition** of a wide range of parties in the Renewables Energy Sector in Baden-Württemberg, like e.g. companies, associations, foundations, research institutions and many more.
- **Voice** of the energy turnaround in Baden-Württemberg.
- **Point of contact** for upcoming complex and energy-related questions.
- **Interface** between the economy, research, politics, media and the civil society.

FOUNDING MEMBERS OF THE PLATTFORM

All Renewable Energies represented:



WHAT DRIVES US

Our goals

We demand to implement an environmentally compatible, cost-effective and futureproof energy supply on the basis of renewable energies in the shortest possible time.

- **Driving the expansion** of renewable energies.
- **Greater attention** of the renewables in political debates.
- **Intensified Communiation** within the sector and towards the overall energy industry.
- **Higher acceptance** for the energy turnaround in civil society.
- Improving the **media presence** of the renewable energies.
- Promoting the **thermal turnaround**.
- Converting the **Mobility** sector to a renewable industry.

WHAT WE DO

Our fields of activity

At a glance:

Political work

**Press and public
information**

Events

**Association development
and networking**

**Member communication
and administration**

Technical work

**Organisation and
administration**

WHAT WE DO

Our field of activity

Presse and public information

At a glance:

- Managing social media accounts.
- Dispatching newsletters.
- Managing our website.
- Communication with the press, radio, TV etc.
- Press releases.

Our achievements:

- 750 press reports
- 450 Follower on Twitter
- Media requests from press, radio and TV on a regular basis
- Almost weekly press releases

Insight:

The screenshot displays the 'Aktuelles' (News) section of the Plattform EE BW website. It features three main articles with accompanying images and dates. The first article, dated 27/10/2021, is titled 'Verfünffachung der installierten erneuerbaren Stromleistung bis 2040 erforderlich' and includes a bar chart showing the projected growth of renewable energy capacity. The second article, dated 14/10/2021, is titled 'Biogas wird immer flexibler - Fachverband veröffentlicht Branchenzahlen' and includes a bar chart showing the growth of biogas production. The third article, dated 06/10/2021, is titled 'Statement Plattform EE BW zum Klimaschutzgesetz BW' and includes a photo of a man. To the right of the website preview is a Twitter feed showing tweets from Plattform Erneuerbare Energien Baden-Württemberg (@PlattformEEBW) and other related accounts.

Aktuelles

27/10/2021 | PRESSEMITTEILUNGEN

Verfünffachung der installierten erneuerbaren Stromleistung bis 2040 erforderlich
Plattform EE BW veröffentlicht aktualisierte Studie zum neuen Klimaziel der ...

14/10/2021 | NACHRICHTEN

Biogas wird immer flexibler - Fachverband veröffentlicht Branchenzahlen
Biogasanlagen kommen ihrer Funktion als flexible erneuerbare Energiequelle immer stärker ...

06/10/2021 | PRESSEMITTEILUNGEN

Statement Plattform EE BW zum Klimaschutzgesetz BW
Anlässlich der abschließenden Beratung zur Novelle des Klimaschutzgesetzes ...

MEHR LESEN >

MEHR LESEN >

Tweets von @PlattformEEBW

Plattform Erneuerbare Energien Baden-Württemberg
Im Interview mit der @SZ_NEWS erklärt unser Geschäftsführer @FrankPistor weshalb es die #Energiewende braucht und warum die Anstrengungen auf dem Weg zur #Klimaneutralität mehr als gerechtfertigt sind.
Jetzt lesen: bit.ly/3q6sooL

Plattform Erneuerbare Energie BW: Darum ...
Deutschland produziert zuviel ÖÖÖ. Darum sei ...
stuttgartenerst.de

Plattform Erneuerbare Energien Baden-Württemberg hat retweetet:
Bundesverband Erneuerbare Energie e.V. (BEE) @BEEenergie
Willkommen zu @klimaschutz, einer Kommunikationsmaßnahme des @BMWi_Bund, durchgeführt von @BEEenergie und @giz_gsmi. #klimaschutz soll #Frauen im #ErneuerbareEnergien Sektor weltweit inspirieren, motivieren, vernetzen und empower! Stay tuned und #follow! #empowerment

Wolke
WOMEN ENERGIZE WOMEN
2. Nov 2021

WHAT WE DO

Our fields of activity

Events

At a glance:

- Organising a congress for the energy turnaround.
- Supporting the sector-specific conferences.
- Concluding alliances.
- Speeches on events.

Our achievements:

- Monthly webinars for specific challenges in the different renewable technologies.
- Regular exchange with several state ministries.

Insight:



Think globally – act regionally

- Climate Change is an urgent global topic.
- From G 20 over Europe to Germany, in counties, towns and villages many people and politicians have realized the need of climate protection.
- All future activities and measures have to be:
 - Concrete
 - Common
 - Local und regional
 - What means democratic

DISTRICT HEATING AND COOLING IS DEMOCRATIC

District heating and cooling systems normally adress all households and enterprises in a town or village.

- Decisions are made by the municipal council.
- District heating companies.
- Convoy heat planning for groups of towns and villages.
- These planning processes can start or enhance public discussion about district heating and cooling.

COMMUNAL HEAT PLANNING

Communal heat planning forces municipal councils to deal with district heating and cooling.

- Enforced heat planning for the towns.
- Voluntary heat planning for the villages.
- Convoy heat planning for groups of towns and villages.
- These planning processes can start or enhance public discussion about district heating and cooling.

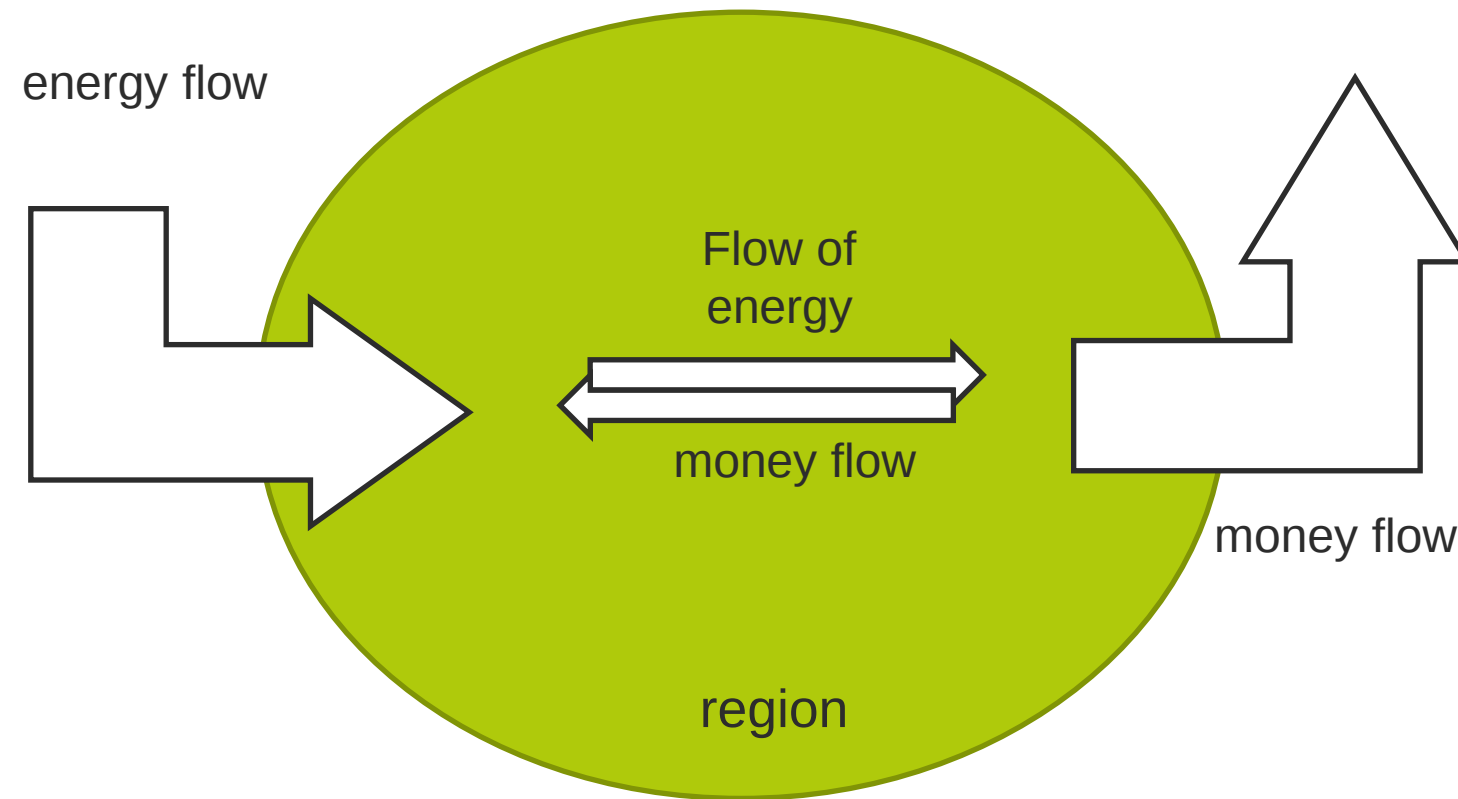
IS DEMOCRATIC ALWAYS ECOLOGICALLY SOUND?

Existing district heating and cooling systems owned by municipal utilities are very often based on fossil coal and gas.

- Especially bigger district heating systems are very often leading to high greenhouse gas emissions.
- Voluntary heat planning for the villages.
- Convoy heat planning for groups of towns and villages.
- These planning processes can start or enhance public discussion about district heating and cooling.

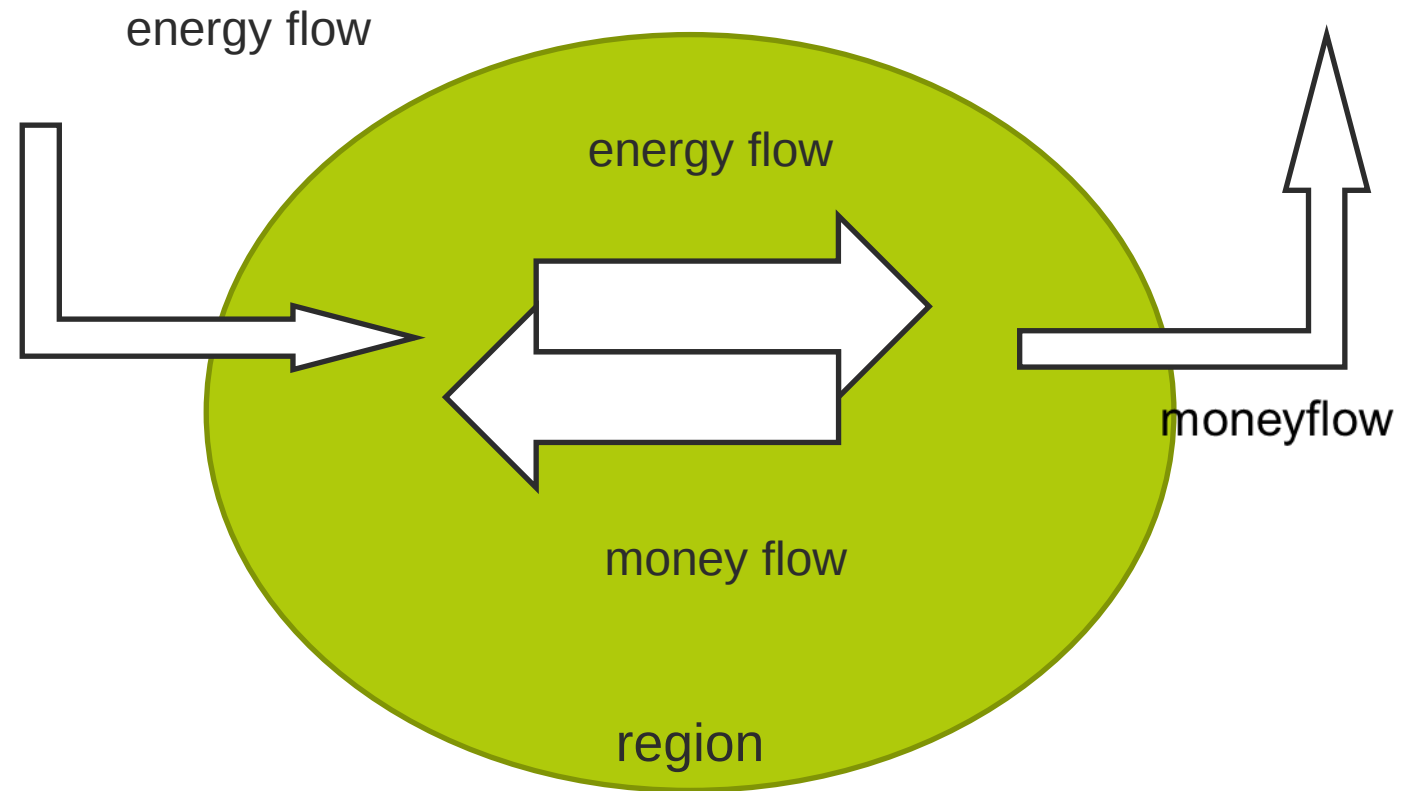
Flow of energy and resources vs. money

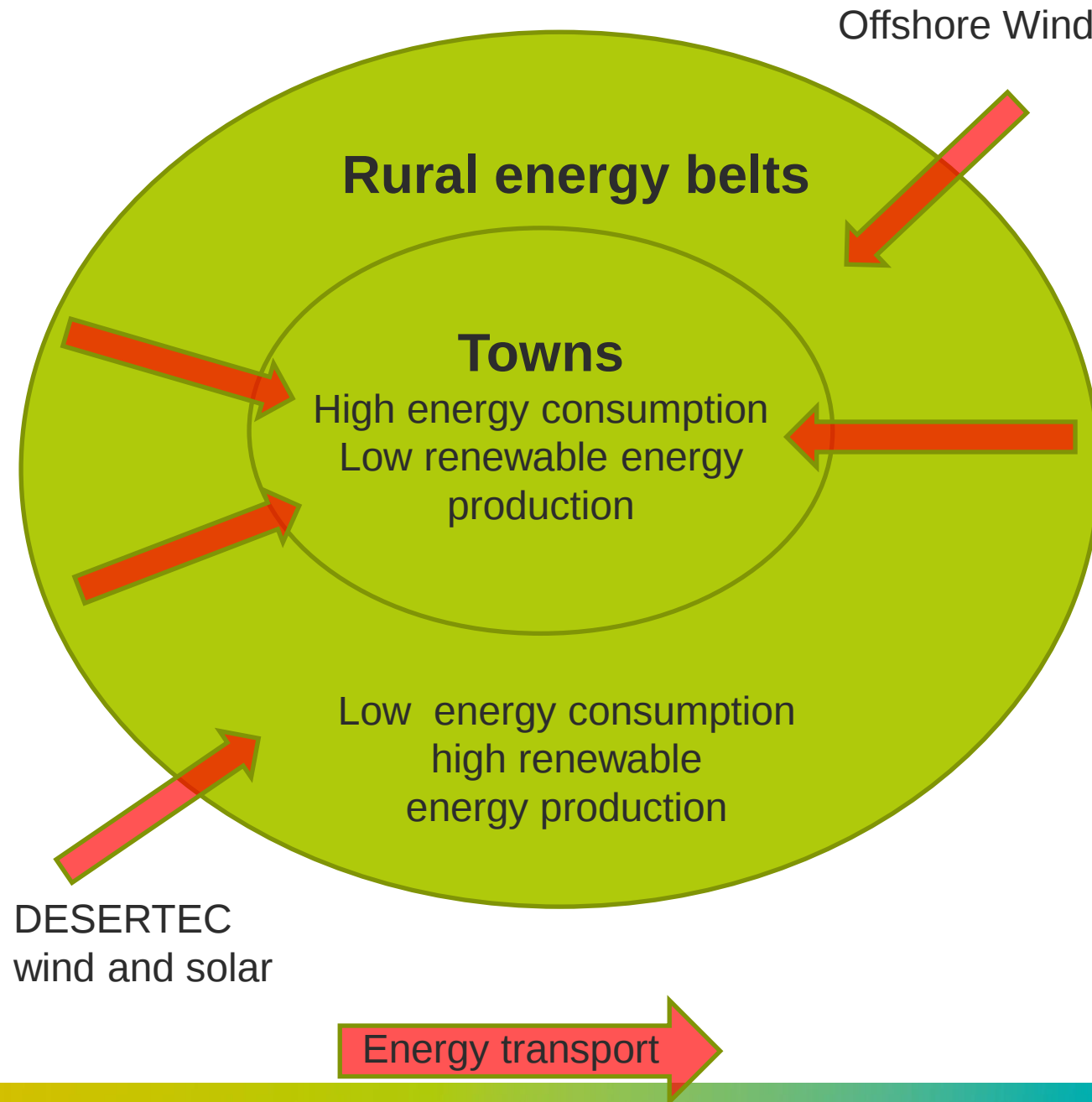
- fossil central regions
- decisions are taken somewhere



Flow of energy and resources vs. money

- decentral renewable regions
- democratic decisions.





Biogas plant in Mauenheim (Germany)



Example bioenergy village Mauenheim

- Heat supply 90 % renewable.
- District heating and cooling system owned by regional enterprise (1.200 share holders).
- Contract with the democratic representatives of the village.
- Electricity supply 950% renewable.
- 900% bioenergy, 50% solar.

→ 850% export of electricity!

ONE EXAMPLE OF A CITIZEN ENTERPRISE

solarcomplex in brief:

- Goal: conversion of the regional energy supply to renewable energies by citizens from the region.
- Founded in 2000 by 20 citizens, currently more than 1,200 shareholders. Private persons, companies, municipal utilities and citizen energy cooperatives.
- Founded with € 37,500, today € 24 million equity. Small annual profits.
- Moderate return expectation (4% on the share capital).
- Around 40 employees, a kind of "regenerative public utilities".



2001 - the first project: 18 kW at a school in Singen

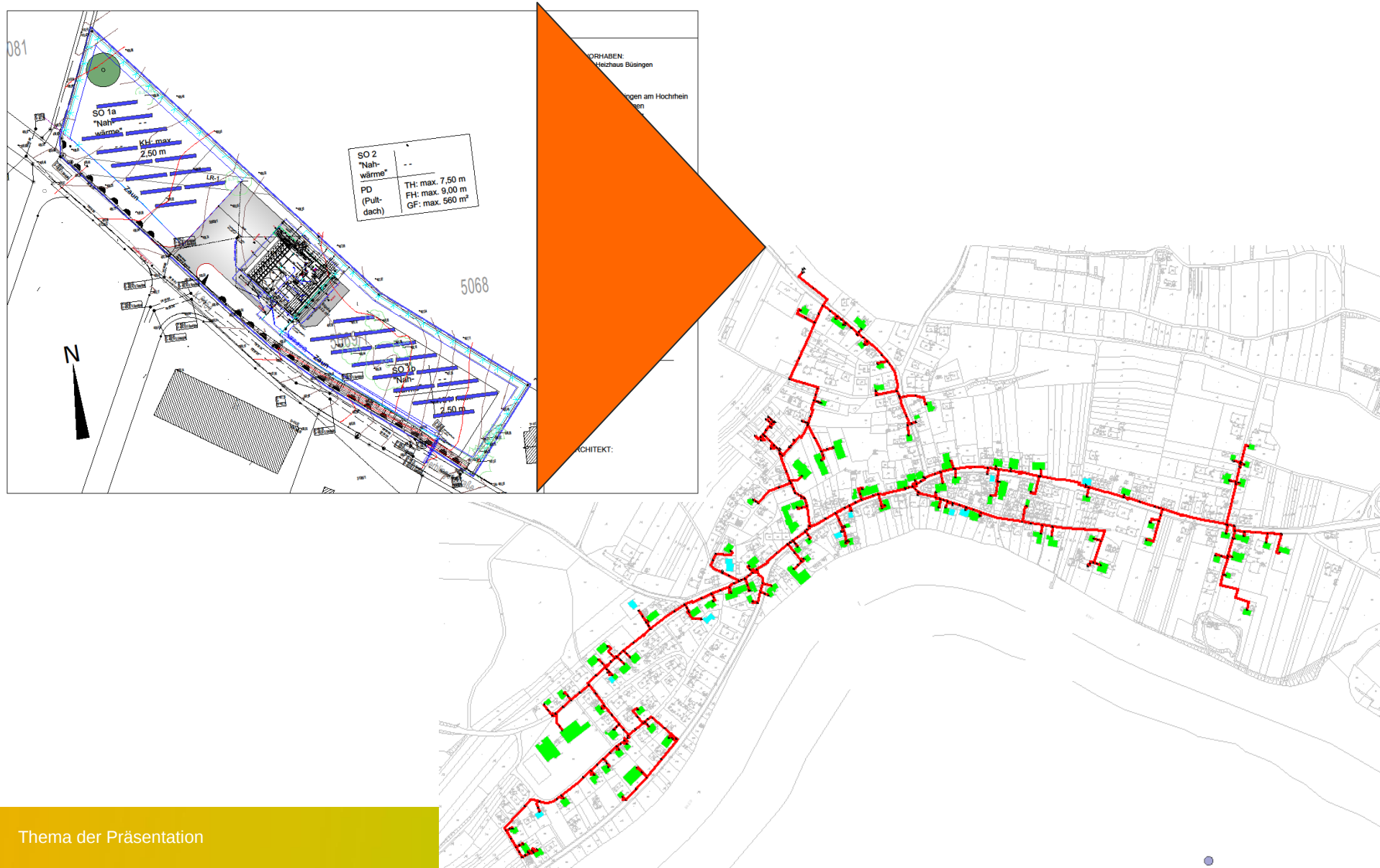
2011 - more than 6 MW

2021- more than 60 MW

That's a factor of 3000!

2012: Solar Energy Village Büsingen

First solar district heating project



2018: district heating Randegg addition of solarthermal plant

- wood plus solar
- 2.400 qm solar field
- 300 m³ buffer
- started in August 2018
- summer heat 100%,
annual contribution around 20%



HOW TO ESTABLISH DEMOCRACY IN DISTRICT HEATING

- Local and regional district heating cooperatives.
- Regional and local renewable citizen energy cooperatives.
- Communal based municipal utilities.
- Common enterprises owned by municipal utilities and citizen energy cooperatives.

District heating meets peoples daily lives.

Example Bioenergy Village Bittelbronn



DEMOCRACY BASEMENT FOR THE GREAT TRANSFORMATION

- District heating and cooling is one of the central parts of the transformation.
- District heating and cooling is linked to communal level.
- District heating and cooling is more democratic than wind- and solar parks.
- There can be difficulties if enterprises are very powerful.
- Strict regulation can be an instrument to safeguard democracy in the grids.

THANK YOU VERY MUCH !