## **ENERGY TRANSITION**

# A BOOST FOR LOCAL VIABILITY IN GERMANY

## ENERGY TRANSITION – ENGINE OF GROWTH IN EUROPE'S REGIONS

Dannemann, Benjamin Brussels, 8th October, 2014



## AEE – THE RENEWABLE ENERGIES AGENCY



Founded by the renewable organisations and the Federal Ministry of Environment in 2004

Financially supported by the organisations and companies of the renewable energies sector

Projects for the Federal Ministry for Economic Affairs and Energy and the Federal Ministry of Food and Agriculture



Team of the AEE

## **TOPICS**

AGENTUR FÜR ERNEUERBARE ENERGIEN unendlich-viel-energie.de

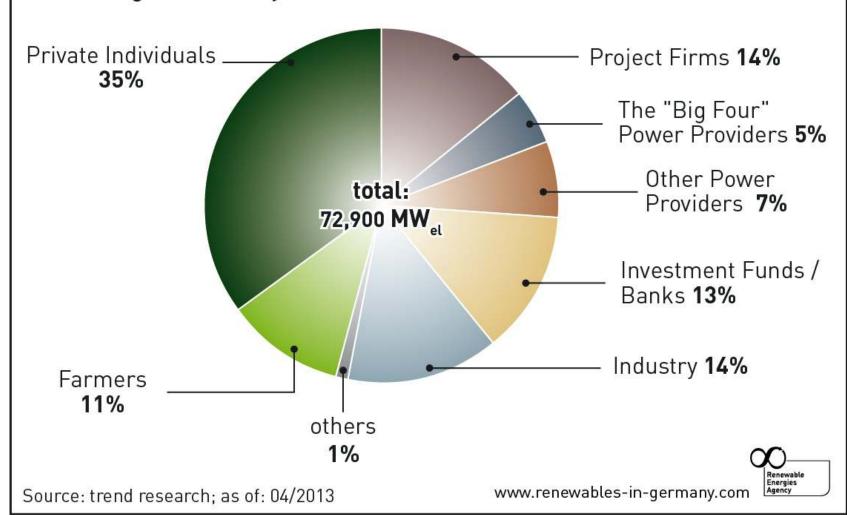
- 1 The status quo in Germany
- 2 Local viability
- 3 Best Practices

## THE STATUS QUO IN GERMANY



### Renewable Energy in the Hands of the People

Ownership distribution of installed RE capacity for power production 2012 throughout Germany.



## THE STATUS QUO IN GERMANY



## **Energy cooperatives in Germany: A success story** Over the last few years the number of energy cooperatives increased sharply. 1.000 888 800 600 600 398 400 239 101 136 200 86 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

Source: Klaus Novy Institut; as of: 1/2014



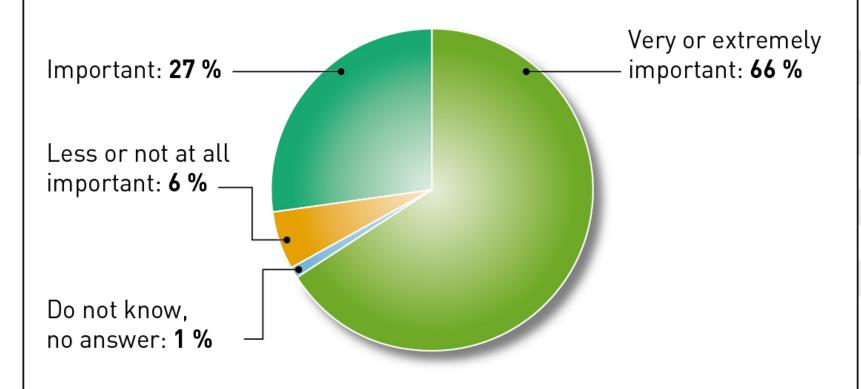






## 93 percent of Germans support the increased development of renewable energy

The use and development of renewable energy sources are ...

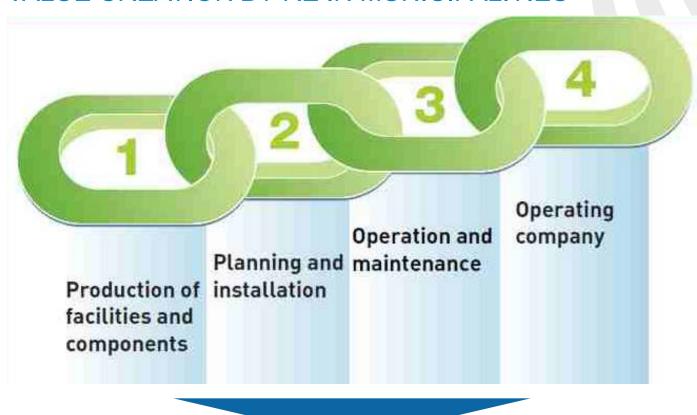


Source: Survey by TNS Emnid 2013, 1003 respondents on behalf of the Initiative Erneuerbare Energiewende Jetzt!; as of: 09/2013

www.renewables-in-germany.de



#### VALUE CREATION BY RE IN MUNICIPALITIES



more than 16 billion Euro / year



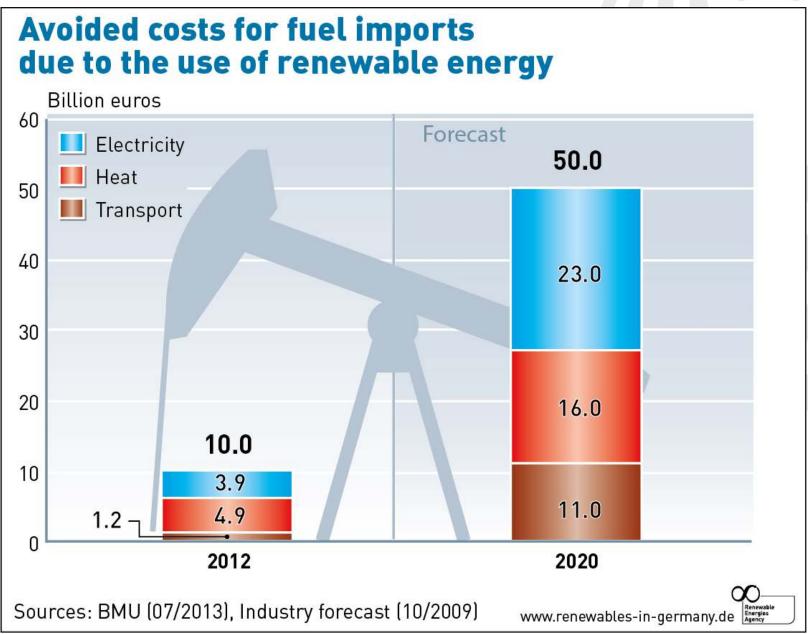
## Employment trends in the German renewable energy sector After years of continuous growth, 2012 showed a slight decline in jobs, mainly caused by the solar industry crisis. Due to positive developments in the wind Industry target

caused by the solar industry crisis. Due to positive developments in the wind and bio energy sector, the total number of jobs stagnated at approximately the previous year's level.

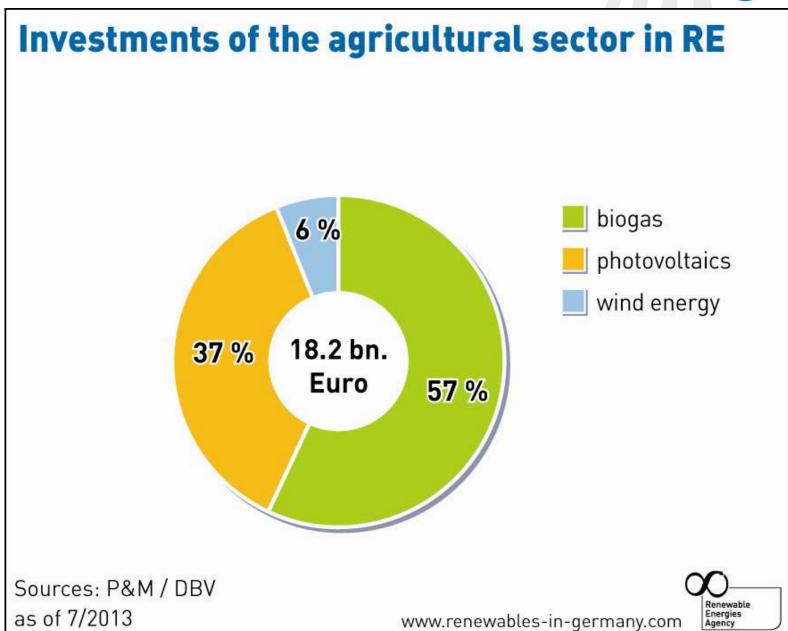
2020: 500.000







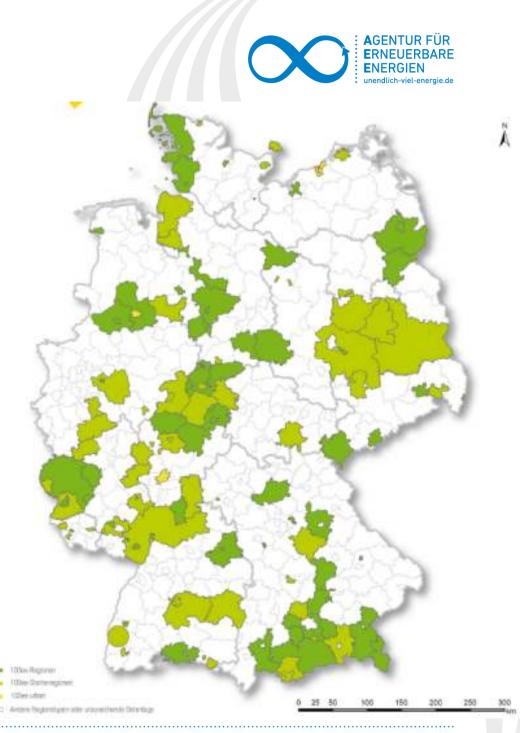




The federal government and the "Länder" (states) share legislative power. Federal States have legislative power concerning all planning activities.

However, local authorities are independent in their decisions on how to organize local services such as energy supply or waste treatment and local planning decisions and building codes.

This makes local governments key actors in Germany's Energy Transformation.





## THE COMMUNITIES ARE THE STAGE FOR THE ENERGY SHIFT. MUNICIPALITIES PLAY A KEY ROLE ON DIFFERENT LEVELS:

As property owners they install RE.

**As planning authority** they ensure the implementation.

**As a consumer** they support green energy.

As an advising instance they provide information.

**As energy supplier** they run power plants.

They act as an **inspiring example**.



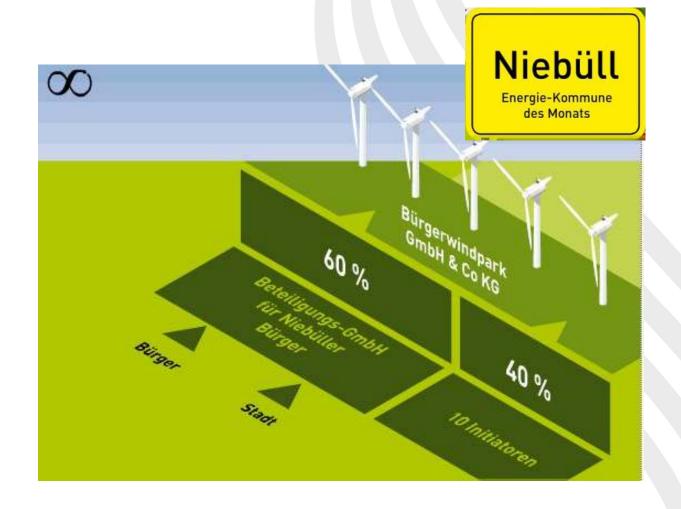
#### **NIEBÜLL**

9.300 inhabitants

850 citizens participate in a windfarm

3 million euros directly invested

Credits come from local banks





#### **SCHLALACH**

16 windmills generate multiple of the energy consumtion of the inhabitants

Leases of 300.000 euros per year

The pooling of the area brought together the interests of 120 landowners





#### **LICHTENAU**

Electricity from a windfarm is sold Directly to the residents

The price of 19,5 cent per kWh (plus Value-added tax) is very cheap

The price is guaranteed for 10 years





#### **ENERGY COOPERATIVE ODENWALD**

1.400 participants in der Genossenschaft with stakes between 100 to 5.000 Euro

Investitionen of 25 million Euro

The cooperative is selling electricity with a price of 25,2 cent per kWh





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#### **ENERGY COOPERATIVE SCHLÖBEN**

An agricultural cooperative is producing biogas and sells electricity

Municipality, cooperative and citizens built a district heating

The citizens founded an energy cooperative that connected the households for free







#### SCHWÄBISCH HALL

The energy supplier Stadtwerke Schwäbisch Hall are community owned.

The Stadtwerke Schäbisch Hall are investing into RE projects such as wind parks and district heating with biogas.

Therefore the Stadtwerke work together with farmers, private persons and the rural district.



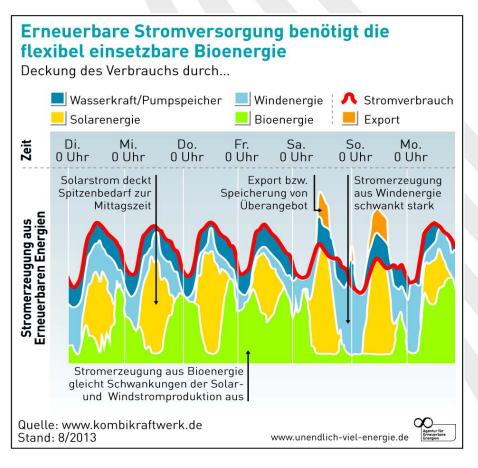




#### **PELLWORM**

The island Pellworm is running a regional combined power plant







#### **DOLLNSTEIN**

Municipality installed a smart district heating
The system works with 30° C in summer and with 80° C in winter
2 stores (15.000 und 27.000 l) and stores in all houses

