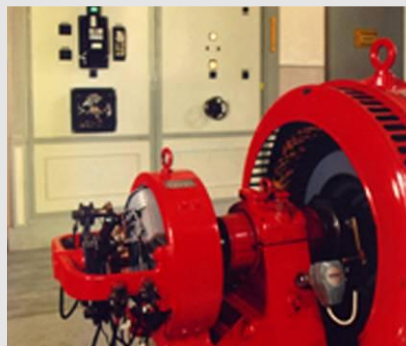


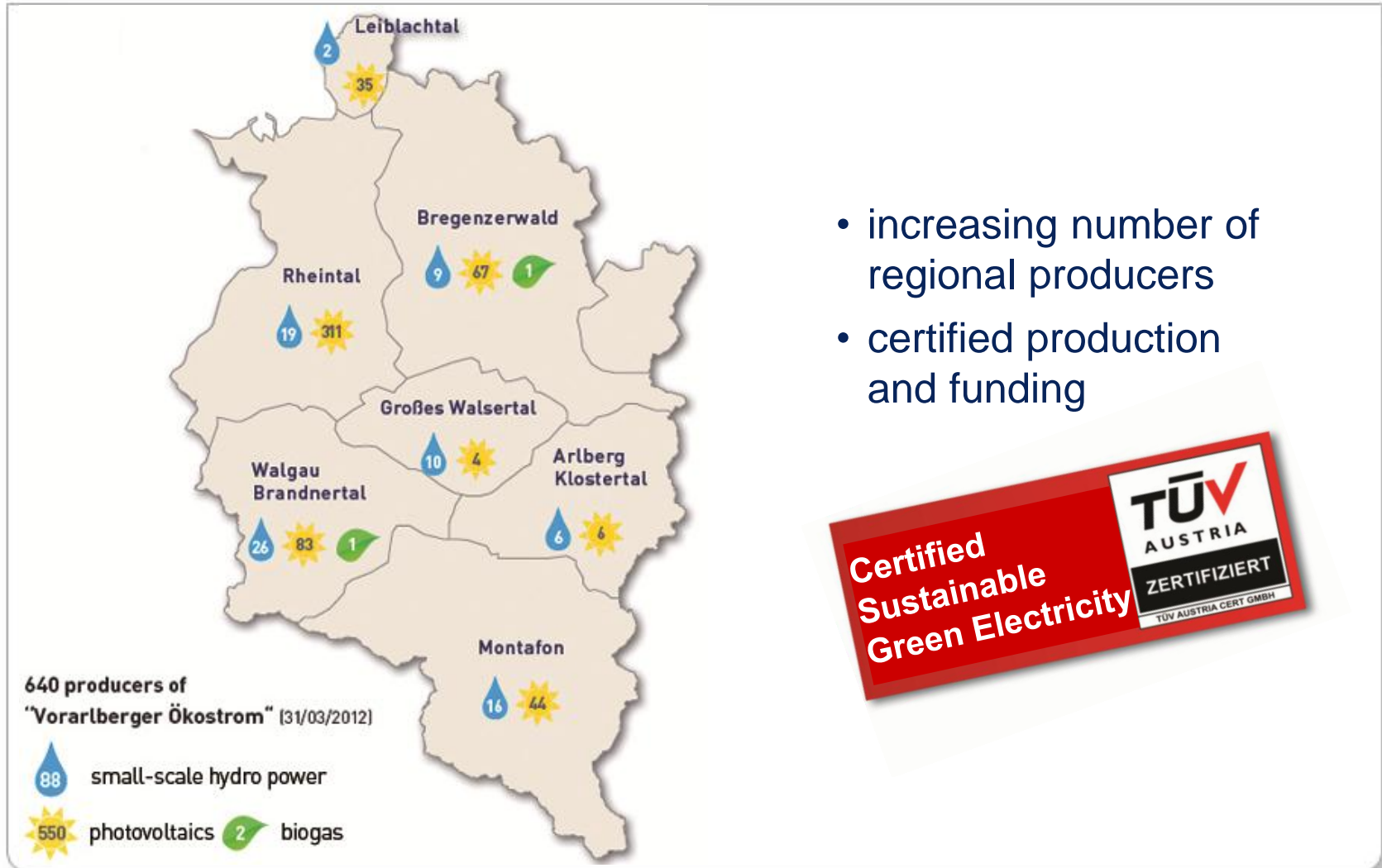
## **VKW Ökostrom – a Regional Supplier of Green Electricity**

Supplying and supporting of green electricity produced in the region  
Cooperation with the „Öko Strombörse Vorarlberg“

Dr. Karl Dörler, VKW-Ökostrom GmbH  
ENERBUILD Final Meeting 23/04/2012



# VKW Ökostrom – Certified by TUV Austria



- increasing number of regional producers
- certified production and funding



# The Benefit of „Vorarlberger Ökostrom“

## Customers get 100% green electricity

produced in small-scale hydroelectric power stations, photovoltaic systems and biogas plants in Vorarlberg.\*



### Vorarlberger Ökostrom

- 100% renewable energy
- no CO<sub>2</sub> emissions
- no nuclear energy

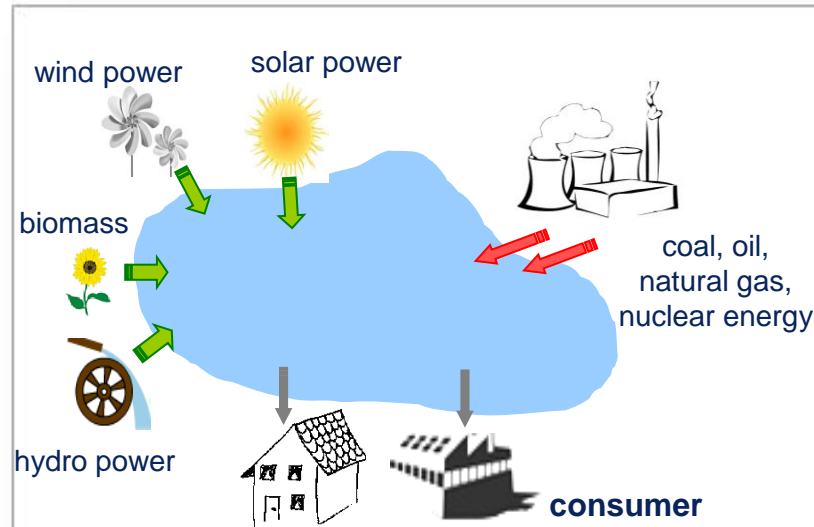
## Customers support the construction of new green electricity generating stations in Vorarlberg.

More than 400 new green electricity generating stations were funded by VKW Ökostrom.

## Customers show their commitment to protect our environment.

\* 10% of “Vorarlberger Ökostrom“ is produced in small renewable energy facilities in other regions of Austria.

# Green Electricity = „green“ Procurement



## The Power Grid – a “Lake of Electricity“

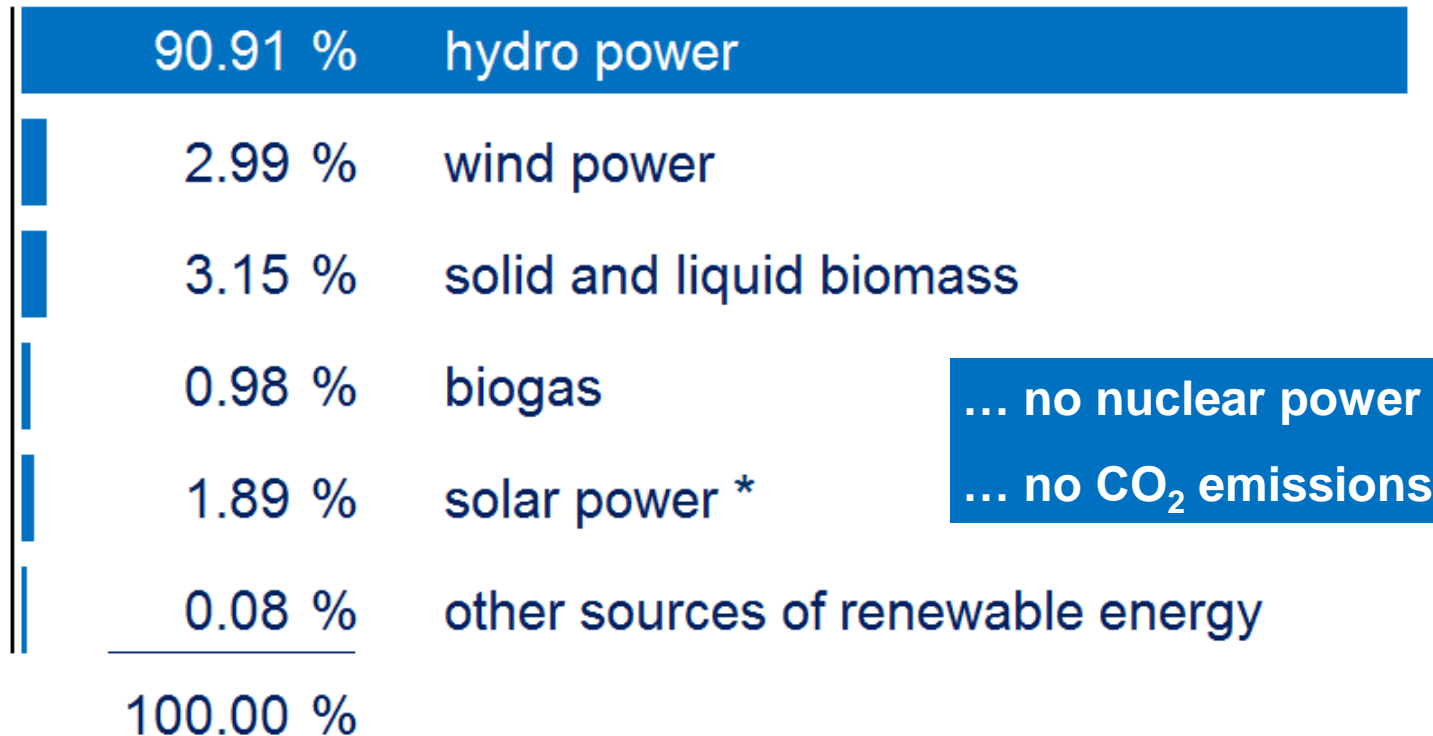
The power grid is like a lake, which contains a mix of electricity produced from various energy sources.

Energy Balance of VKW Ökostrom 2011	Guarantees of Origin	
	kWh	%
hydro power	39.774.153	90,911%
wind power	1.308.061	2,990%
biomass solid	1.368.623	3,128%
biomass liquid	7.698	0,018%
biomass gaseous	428.718	0,980%
solar power	827.105	1,891%
landfill gas	15.802	0,036%
sewage gas	11.976	0,027%
geothermal energy	711	0,002%
waste with biogenic share	7.349	0,017%
<b>Total</b>	<b>43.750.196</b>	<b>100,000%</b>

## Electricity Labelling with Guarantees of Origin

Suppliers of green electricity have to prove that the whole amount of electricity they deliver is produced in green electricity power stations. The electricity labelling is the result of an energy balance with guarantees of origin for each kilowatt hour. Guarantees of origin are issued by independent authorities or bodies.

# Electricity Labelling / Fuel Mix in 2011



\* 96% of the electricity from solar power comes from offtake contracts with producers in Vorarlberg

# Protection of Environment by Avoiding Emissions and Radioactivity

### European Fuel Mix



1.5 Tonnes of CO<sub>2</sub>  
per 3,500 kilowatt  
hours  
of consumption

### “Vorarlberger Ökostrom“



100% local  
renewable energies  
no CO<sub>2</sub> emissions  
no radioactivity

- hydro power and other renewable energy sources
- coal, natural gas and oil
- nuclear power

An average household avoids 1.5 tonnes of CO<sub>2</sub> by using green electricity.

# Buying “Vorarlberger Ökostrom” – A Personal Contribution to Energy Transformation



**“Vorarlberger Ökostrom” induces only EUR 2.45 additional costs per month and household.\***

**Customers of “Vorarlberger Ökostrom” support green electricity producers financially:**

- Feed-in tariffs paid by VKW Ökostrom are higher than market prices.
- Investment grants paid by VKW Ökostrom enable the construction of new green electricity production sites in Vorarlberg.

\* average consumption 3.500 kWh per year

# Cooperation VKW-Ökostrom – “Öko Strombörse Vorarlberg“



## Targets of cooperation

- VKW Ökostrom and AEEV, the Association of Renewable Energy Vorarlberg, are willing to make a significant contribution to the project Energy Autonomy of Vorarlberg by making local green electricity generation more attractive.
- VKW Ökostrom and AEEV are offering a variety of green electricity products for customers and funding programmes for private and communal producers of green electricity.
- Working together regarding marketing and sales of green electricity products should strengthen the local green electricity generation.



# Cooperation VKW-Ökostrom – “Öko Strombörse Vorarlberg“



## Consistent messages

- VKW Ökostrom is delivering 100% green electricity, bought directly from regional producers, and is supporting the local green electricity generation through offtake contracts with higher feed-in tariffs and grants.
- The “Öko Strombörse Vorarlberg“ is a support scheme managed by AEEV, where customers can co-determine which green electricity facilities are funded with their money.

## Combined product „Vorarlberger ÖkostromPLUS“

- “Vorarlberger Ökostrom“ delivered by VKW Ökostrom.
- “ÖKOPLUS“-funding agreement with “Öko Strombörse Vorarlberg“.

## Full transparency regarding sources of electricity and funding programmes

# Confidence in Green Electricity is Created by Transparency

The production of „Vorarlberger  
Ökostrom“ is transparent  
for its customers.



Customers can experience it  
themselves by visiting  
generating stations.