Introduction



District of Rhein-Hunsrück



- ■102.000 inhabitants thereof 8.088 foreigners (12 from Japan)
- Area: 991 km²









Architect Frank-Michael Uhle

Climate Protection Manager

District administration of the district of Rhein-Hunsrück

Ludwigstraße 3-5, 55469 Simmern, Germany

Phone: +49 6761 82611

Email: fm.uhle@rheinhunsrueck.de





Rural structured district

45% forest area 42% agriculture (110 agricultural enterprises with more than 100 ha, another 708 agricultural enterprises with less than 100 ha)







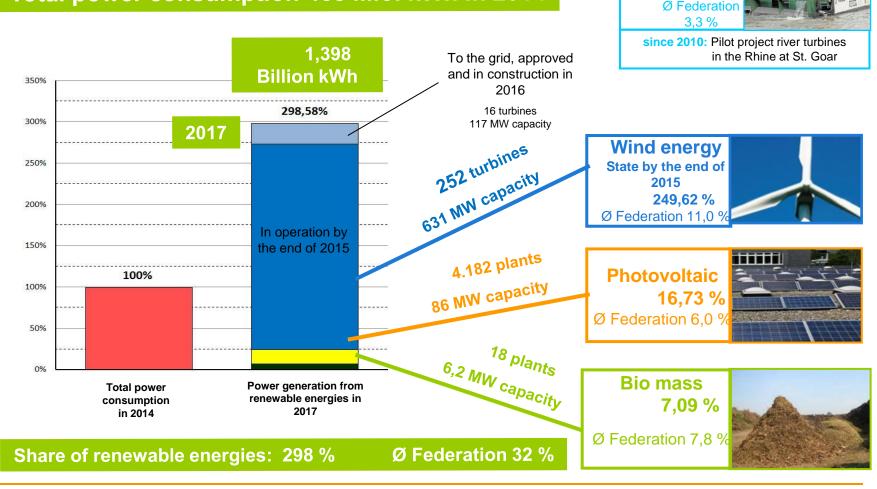
2 Million overnight-stays per year viticulture
Historical Heritage
UNESCO World Heritage

The share of renewable electricity in the district probably will be at 298 % by the end of 2017



informational: **Hydro power**

Total power consumption 468 Mio. kWh in 2014



14 bio mass local heat networks in operation Example: Material Flow Management



Public building complexes are merged to district heating networks and heated with **tree and shrub cuttings** (120 collecting points, central treatment place)

The first step: Fuel preparation in the central processing place

Annual savings

Fuel oil equivalent

680.000 Liters

Startscreen

High quality compost: approx. 50% of the total material

Fuel:

approx. 50% of the total material

The second step:

Thermal processing in the central heating station with burning capacity of 500 to 850 kW

Three biomass-heating networks in school centers:

22 school buildings, 8 sports halls, 1 town hall 2 indoor and 1 outdoor swimmingpools, 1 libary, 1 old people's home



Central heating station

Regional value creation and Public service Recognation of interfaces and use!



Step by step we convert 290 Million Euro annual energy import costs into regional jobs and value creation by way of energy efficiency and renewable energies!

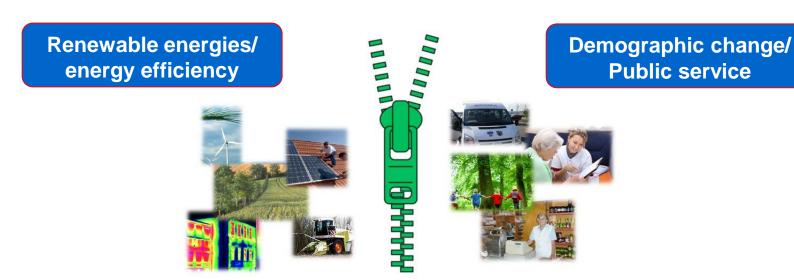
Total investment sum of all renewable energy plants

Sum in 2015

1.35 Billion €



- Rental income and taxes for the local communities
- Feed-in remuneration for local operators (private PV- plants and cooperatives)
 - Orders for the domestic craft and construction companies
- New Jobs through maintenance orders
- Development opportunities for local agriculturists and forest owners



Regional value creation press echo

District administration of the district of Rhein-Hunsrück







It is demonstrated by the province: With a lot of pragmatism and an inner conviction around 300 % of green energy are already produced in the district of Rhein-Hunsrück in 2015. Here the energy revolution is working as a giant program for the promotion of the economy.

- By Ralf Köpke

Quelle: E&M annual magazin of 2012

Public services via renewable energies at the example of the local congregation Mastershausen







Private Wind- and Solar parks on communal owned areas

14 Wind turbines (step by step since 2007)

Therefore the community gets a rent as well as a percentage earnings share, which depends on the wind income

Rental incomes from the wind energy for the local congregation: approx. 300.000 € per annum, contract period 20 years

> Photovoltaic systems on terrain with 2 MW capacity commissioning in December 2010

The plant will become property of the local congregation after 25 years

Rental incomes for the local congregation: 630.000 € uniquely payment in October 2010

Public services via renewable energies at the example of the local congregation Mastershausen

District administration of the district of Rhein-Hunsrück













The local congregation is using its rental income from the Wind and Solar park for:

- Expansion of local streets 570.000 €
- Vitalization program for old buildings in the village center 50.000 € per year
- Support for local clubs annual 15.000 € for 10 clubs in total
 - Reconstruction of the old school into a retirement home with a meeting room 1.500.000€
- New construction of a training room for the music club 50.000 €
- New construction of a youth hall 60.000 €
 - New construction of a library 17.000 €
- New construction of a Kindergarten, own contribution 160.000 €
 - Renewal of the playground 40.000 €
- Creation of a natural recreation area 151.000 €
 - New construction of a premium hiking trail 30.000€
- DSL-connection, own contribution 101.000 €
- New construction of a viewing tower 37.000 €
 - Support for the neighbor communities

...and much more...

The road to success: LHN in the villages



Combined LHN: Villages Külz and Neuerkirch 2015

Mayor (retired) Aloys Schneider and Volker Wichter

and Volker Wichter

Approx. 142 buildings in 2 villages 80% ratio (total 757 citizens)

Planned: 2 wood chip-boilers, 1.420 m² solar thermal field

Start of construction Operational

Spring 2015, Summer 2016

Target:

Climate Protection - Volunteering Villages for Energy Saving, completely renewable heat- und power supply (by wind power/Storage- and/or PV/Storage-Combination

Builder-owner:

Energieversorgung der Region Simmern (ERS) at in-house operation VG-Werke Simmern

Neuerkirch

Source: Rhein-Hunsrück-Zeitung, 20.09.2016

Overview by: ERS Simmern

Photo: energy acency rhineland palatinate/Sonja Schwarz

The largest solarthermal supported in Rhineland-Palatinate has been l















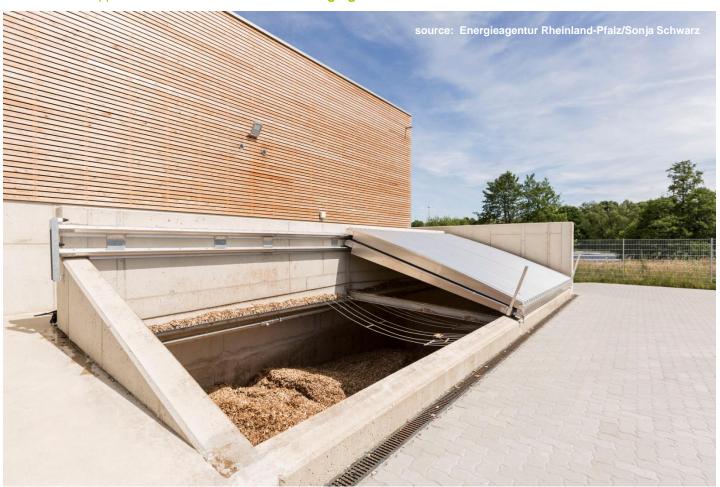






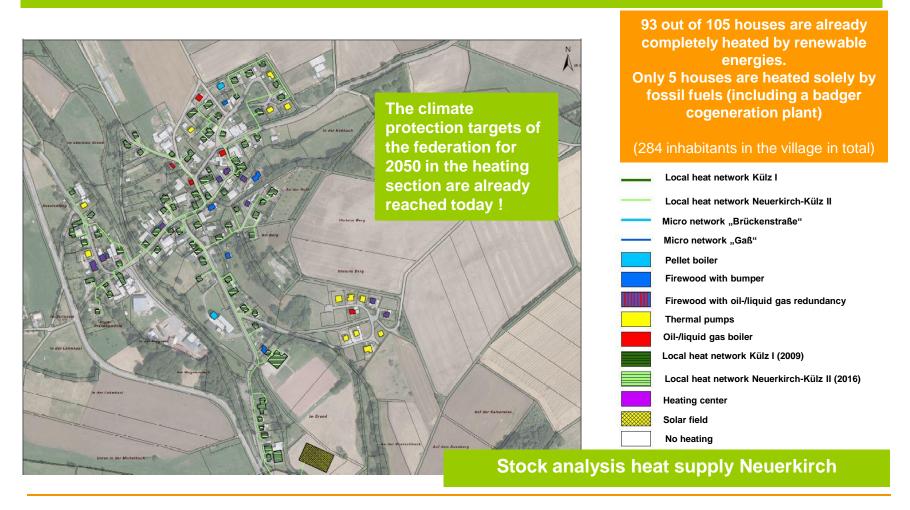








The local congregations are supporting the changeover to renewable heat supply through grants of 4.000 € per household gained from the rental income for the turbines







The two local congregations of Külz and Neuerkirch have jointly implemented the largest district-heating network in Rhineland-Palatinate.

This represents the current high point of the rapid expansion of the citizens' heat in our district (the 15th network is under construction).

In addition, the local congregations offer their citizens numerous offers in the sense of the provision of life in order to make the places fit for the future.

"The income from wind farms has helped us realize our sustainable village development concepts for our citizens!!"

Volker Wichter, Mayor of Neuerkirch





The two local congregations of Külz and Neuerkirch have jointly implemented the largest district-heating network in Rhineland-Palatinate.

This represents the current high point of the rapid expansion of the citizens' heat in our district (the 15th network is under construction).

In addition, the local congregations offer their citizens numerous offers in the sense of the provision of life in order to make the places fit for the future.

"The income from wind farms has helped us realize our sustainable village development concepts for our citizens!!"

Public services via renewable energies at the example of the local congregation Mörsdorf





Elf Anlagen...

- ... erzeugen jährlich durchschnittlich 74 Millionen Kilowattstunden Strom
- ... decken den Bedarf von 62.000 Menschen in ihren Häusern und Wohnungen
- ... reduzieren den Kohlendioxidausstoß um jährlich 56.000 Tonnen

(Eleven turbines...

- ...produce an annual average of 74 Million kWh electricity
- ...satisfy the needs of 62.000 people in their houses and apartments
- ...reduce the emission of carbon dioxide up to 56.000 tons per year)



11 wind turbines with a capacity of 2.4 MW since 2015

Therefore the community is getting a rental income as well as a percentage earnings share depending on the wind income

Rental income from the wind energy for the local congregation:

approx. 205.000 € in 2016, plus 1.850 € from the solidarity pact of the former municipality of Treis-Karden

Rheinland-Pfalz bekennt sich zur Energiewende: Ziel ist es, bis zum Jahr 2030 den Strombedarf bilanziell vollständig mit erneuerbaren Energien zu decken.

Der Windpark trägt maßgeblich zur kommunalen Wertschöpfung bei: Für die Flächen der Windkraftanlagen im kommunalen Eigentum fließen Pachtzahlungen in die Gemeindekasse. Für alle Anlagen bleibt zudem ein großer Teil der Gev in Mörsdorf. Mit dem Bau der Infras beauftragt ABO Wind soweit möglic Unternehmen. Über den Solidarpak Verbandsgemeinde Treis-Karden sin Ortsgemeinden an den Einnahmen deren Flächen keine Windkraftanlag werden können.

Source: Abo-Wind, exhibition in the coffee shop of the museum Mörsdorf

Public services via renewable energies at the example of the local congregation Mörsdorf

District administration of the district of Rhein-Hunsrück



"Without the income from our wind turbines and the support of the operator Abo-Wind the bridge would have stayed a dream"

Marcus Kirchhoff, Mayor of Mörsdorf on the occasion of the opening at the 3rd of October 2015





The three "Bridge dreamers" Marcus Kirchhoff, Hans-Peter Platten and Ingo Börsch









Golden Gate und Geierlay

urzurlaube sind sexy, sagen die Tourismusexperten, die sich am Mittwoch in Bingen getroffen haben. Mal

People used to take trips to London, Pisa or Venice, but now they are also coming to Mörsdorf!

licher Anlehnung an Asterix, kleine mürrische Dorf wird nicht müde, Gäste zu empfangen und sich damit den großen Reisezielen dieser Welt zu erwehren als wären es die umliegenden Römerlager Kleinbonum.

The bridge is kind of the Golden Gate Bridge of the Hunsrück

Source: Rhein-Hunsrück-Newsletter from the 27th of November 2015

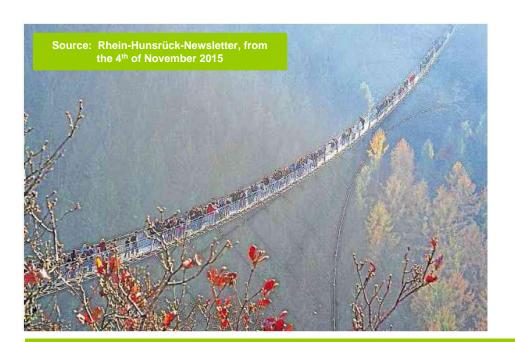
Public services via renewable energies at the example of the local congregation Mörsdorf

District administration of the district of Rhein-Hunsrück



"Without the income from our wind turbines and the support of the operator Abo-Wind the bridge would have stayed a dream"

Marcus Kirchhoff, Mayor of Mörsdorf on the occasion of the opening at the 3rd of October 201





The three "Bridge dreamers" Marcus Kirchhoff, Hans-Peter Platten und Ingo Börsch

The people of Kastellaun are counting more tourists

In the first half of 2015 more guests were coming

ist dies, verglichen mit den Zahlen aus dem ersten Halbjahr 2014, klar zu erkennen.

So kamen im ersten Halbjahr 2015 durch den Aufenthalt von 11 394 Gästen 33 206 Übernachtungen zustande. Dies bedeutet einen Zuwachs von 8,3 Prozent bei den Gästezahlen und 33,4 Prozent bei den Übernachtungen.

Die Erhöhung der Gäste- und Übernachtungszahlen ist zum Teil auf die seit dem 1. Juli 2014 neu zur Verhanderemeinde Vestellenn

Source: Rhein-Hunsrück-Newsletter, from the 25th of November 2015



tistik der Verbandsgemeinde Kastellaun berücksichtigt. Davon abgesehen haben die zahlreichen Traumschleifen Saar-Hunsrück und die im Frühjahr eröffnete Verlängerung des Saar-Hunsrück-Steiges von Idar-Oberstein über Kastellaun nach Boppard, den Wandertourismus im Hunsrück drastisch in Schwung erbracht.

In der Verbandsgemeinde Kastellaun geht man davon aus, dass durch die Eröffnung Deutschlands dangster Hängeseibrücke im Mörsdorf die Gäste- und Übernachtungszahlen weiter steig ansteigen werden. Die positive Entwicklung zeigt, dass sich die Verbandsgemeinde Kastellaun als Feriendestimation im Hunsrück och tunischten zu einer starken Tourismussegoio entwickelt

Weitere Infos: Tourist-Information Ferienregion Kastellaun, Marktstraße 16, Telefon 06762/401873 oder 401698, E-Mail info@kastellaun.com, www.kastellaun.com

The "Geierlay" is the number 85 of the most favorite destinations of foreign tourists

- four places ahead of the "Hofbräuhaus" of Munich Source: German central for tourism (DZT), Survey among 40.000 participants

Public services via renewable energies at the example of the local congregation Mörsdorf



The former place of "Summer freshness" had been revived







Public services via renewable energies The value creation is helping the communities to deleverage



60 out of 137 communities are gaining rental incomes from the wind energy

Rhein-Hunsrück has got the exceedingly fewest

Statistic: The budget situation in the district, its municipalities and communities is the most solid nationwide

Debts of overall community budget in 2015 (Selection)

Sum (in Mio. Euro)		Change	Per captia
District of Rhein-Hunsrück	60,7	+ 3,4 %	594
District of Cochem-Zell	117,9	- 3,7 %	1896
District of Bernkastel-Wittli	ch 273,3	+ 2,9 %	2455
District of Rhein-Lahn	228,8	- 5,7 %	1879
District of Mayen-Koblenz	477,7	-2,9 %	2264
District of Birkenfeld	323,6	+5,9 %	4021
District of Bad Kreuznach	357,6	-3,0 %	2759
City of Koblenz	412,6	- 4,7 %	3698
District of Mainz-Bingen	185,5	-8,6 %	905
•			
Rhineland-Palatinate	12 596,3	+ 0,9 %	3132





In the 19th century people emigrated to America, because the Hunsrück could not feed them any more.

Source: Rhein-Hunsrück-Newsletter, from the 22nd of August 2016