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Ingenuity for life

Wildpolsried – home of the power pioneers

Dalibor Marković – Visit Report

Wildpolsried – home of the power pioneers
Where is this Village?

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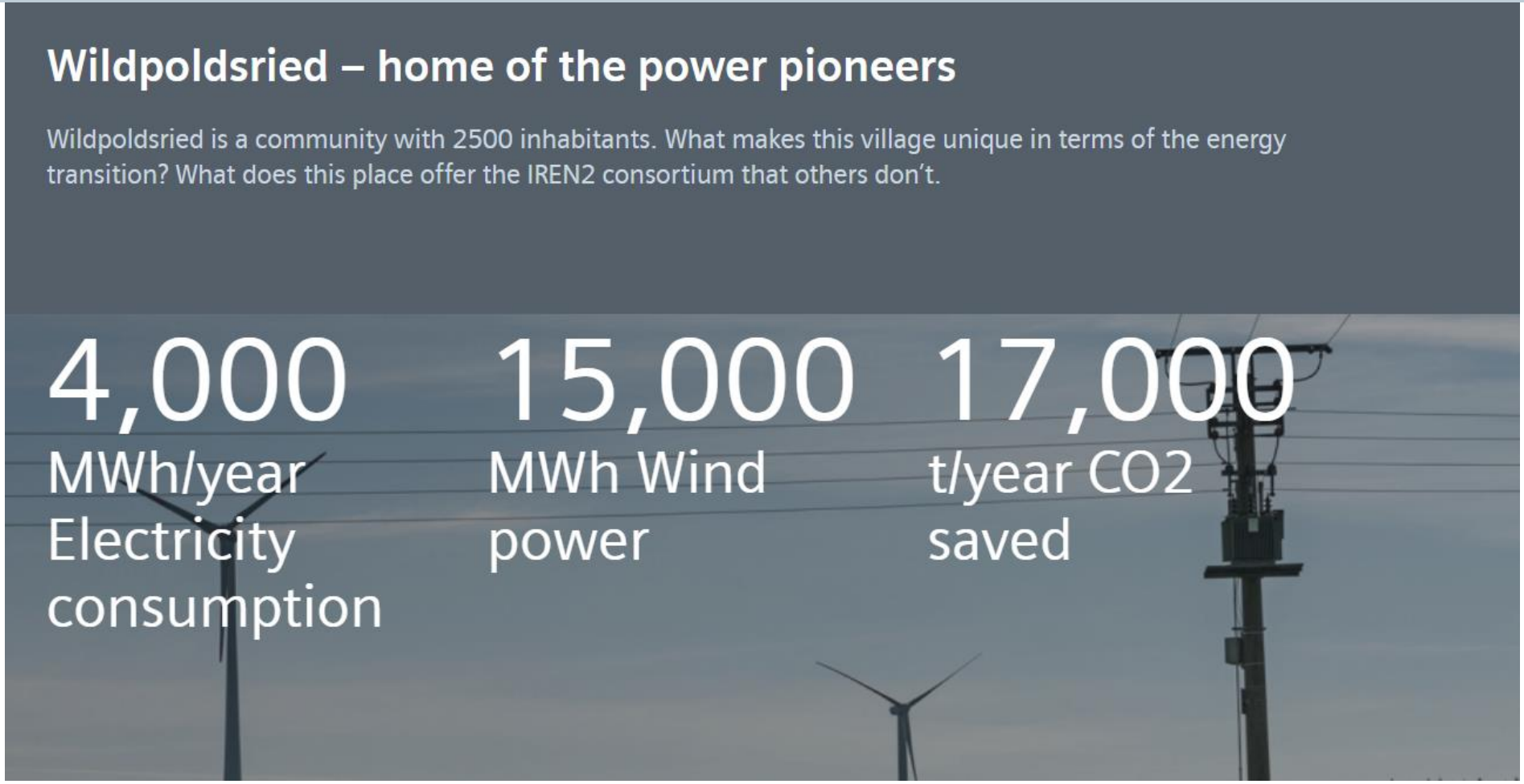
Wildpolsried – home of the power pioneers
Where is this Village?



http://iren2.ifht.rwth-aachen.de/

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About project!

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- Started in late 1990's – Vision to be energy sutainable till 2020.
- Goal made in 2012.
- 2014 started IREN 2 project
- 2016 Operating topological power plant
- Goal for 2020 – each house Power Plant
- New internal Standard from 2016: Energie+ houses only

IREN2 is the first microgrid test of its kind outside of the laboratory

CONSORTIUM

AÜW AllgäuNetz Der Leitungsverbund SIEMENS RWTH AACHEN UNIVERSITY IDKOM Hochschule Kempten University of Applied Sciences

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Data goes online!

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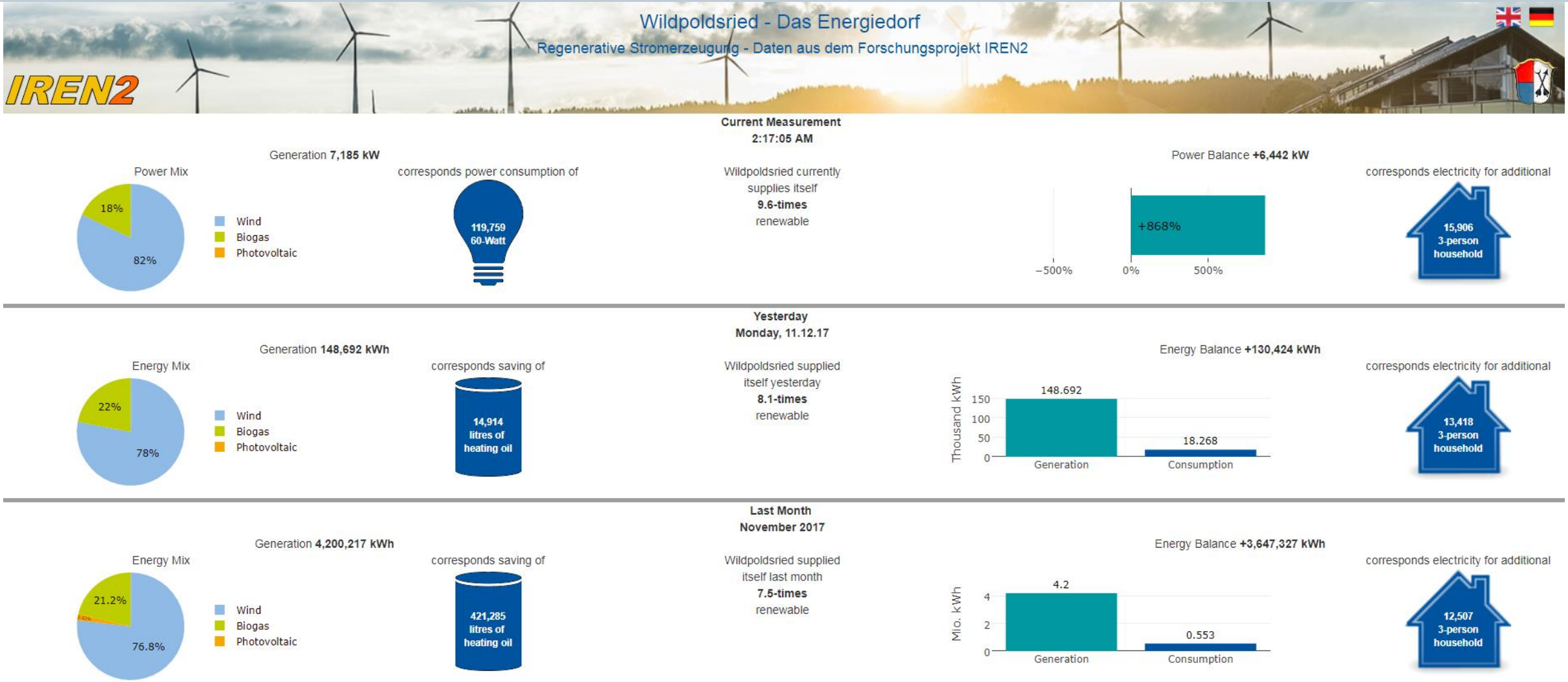

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What is installed?

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What is installed?

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Biogas plant

Control technology

Diesel generator 90kVA

The CHP of the citizens

Battery storage 240kVA

Photovoltaic systems of inhabitants

Wind turbines

Transformer station IRENE

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Additionals! Village district heating system

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- In function from 2005, several extensions
- Heating for 51 building till 2014.
- Driven by biomass
- Managed by Dorfentwicklungs GmbH
- Located in the basement of the village Hal
    - Business House
    - Church
    - Hotel KULTIVIERT (Village hal, Caffe...)
    - Kindergarden
    - School
    - Sportshall
    - more than 90 flats
    - .....

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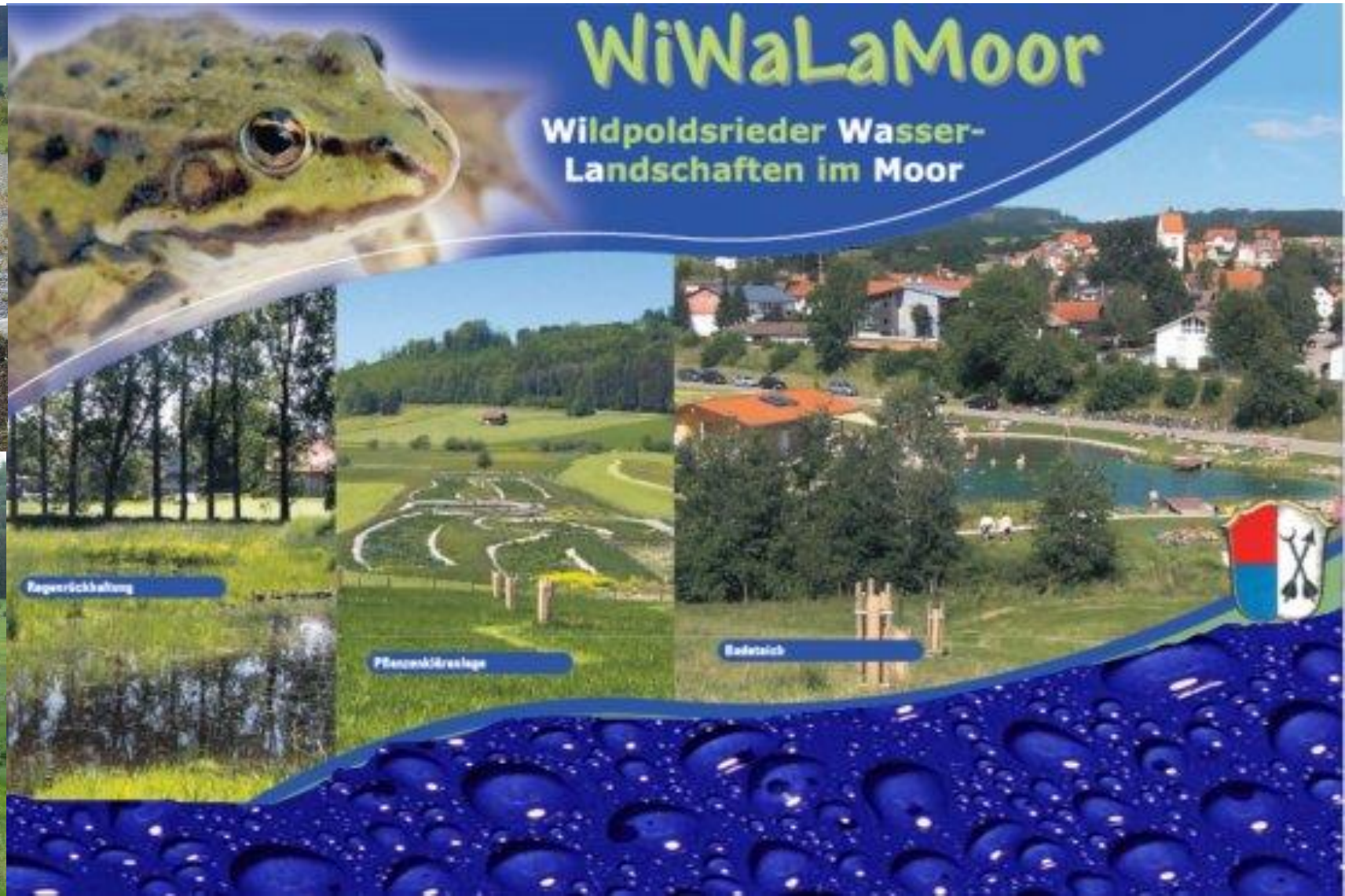
Additionals! WiwaLaMoor – Natural Waste Water Treatment Plant




BÄCKEREI
Giro
STADTMÜLLER


Kunststoffe
Kunststoffe
Styropor
Kartonagen
Mischpapier
Schrott
2530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Wildpoldsried:
the smart energy village
How a distributed energy supply works – economically and safely.
IRENE project
IREN2 project
AÜW
IDKOM

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Conclusion!

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- Island grid operation – disconnected from main grid

Use as a topological power plant

Stable, economically optimized grid

IREN2 is globally relevant

The research work involved in IREN2 shows that microgrids and topological power plants can be achieved with a calculable outlay. They have a wide range of potential applications.

Dalibor Marković

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The citizens of Wildpoldsried

Since the 1990s, Wildpoldsried has been involved in sustainable energy systems. During this time, Wildpoldsried evolved from a simple community in the Allgäu to an internationally renowned energy village. This is thanks in part to the Siemens projects IRENE and IREN2.
None of this would have been possible without the citizens of Wildpoldsried. From the beginning, all of them have been driving this development.
Here, Mayor Arno Zengerle, energy producer Wendelin Einsiedler, and energy pioneer Günter Mögele introduce their village.