



PROGRAMME FUNDED BY THE EU



"INOGATE Technical Secretariat & Integrated Programme in support of the Baku Initiative and the Eastern Partnership energy objectives" Project

**BUILDING PARTNERSHIPS FOR
ENERGY SECURITY**

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INO GATE Study Tour/Workshop

Energy Efficiency & Renewable Energy Sources

Windpark Bruck an der Leitha, Owner's view

Marcus Naderer
Verbund Renewable Power GmbH

Austria
May 15, 2013



Windpark Bruck an der Leitha



- 1. For many centuries wind power was an essential energy source in Europe.**
- 2. The wind turbines in Europe and in Austria produce electric energy very economically.**
- 3. Prices for energy from fossil and nuclear are rising fast.**

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Windpark Bruck an der Leitha



- 1. Windpark was constructed in 2000.**
- 2. Windpark was a citizen participation project.**
- 3. Financed for reasons of climate protection.**
- 4. Financed to reinforce the region's value added value.**

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Windpark Bruck an der Leitha



- 1. Basis for planning was formed by very good wind potential.**
- 2. Potential was shown by wind measurement carried out over a two-year period.**
- 3. Measurement produced high confidence level.**

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Windpark Bruck an der Leitha



- 1. Initiated by a group of dedicated individuals.**
- 2. Financial sources:**
 - **Loan (guarantees from founders)**
 - **Leasing**
 - **Guarantees (LC / LG)**
 - **Own sources of founders**
- 3. Lending period - 7-9 years**
- 4. Partners – EBRD, EIB**

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Windpark Bruck an der Leitha



- **8 000 000 € total investments**
- **5 wind turbines ENERCON E66/18.70**
- **Tower hub height – 65 m**
- **Rotor diameter – 70 m**
- **Total output – 9 000 kW**

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Windpark Bruck an der Leitha



- NPV - 2 560 000 €
- SIR - 1.32
- IRR - 23%
- SPBP - 4.8 yr



Windpark Bruck an der Leitha



- These five turbines produce more energy than all citizens of Bruck / Leitha consume.
- A viewing platform is attached to one turbine:
 - **360 degree view**
 - **60 meter height**

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Windpark Bruck an der Leitha



- **Annual yield: 17 000 000 kWh**
- **Reduction: 5.6 million litres/year of crude oil**
- **CO₂ reduction: ~15 000 ton/year**
- **Electricity for ~ 5 000 households**

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Windpark Bruck an der Leitha



- **Owner since 2009:**
Verbund Renewable Power GmbH
- **Contact:**

Mr. Marcus Naderer

Tel: +43 (0) 50313 52442

Tel: +43 (0) 50313 52470

www.verbund.com

Office@energiepark.at

www.energiepark.at

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Windpark Bruck an der Leitha Windenergieanlage 1



A4 (Ostautobahn) bis zur Ausfahrt Bruck an der Leitha-West
➔ GPS-Daten: 16.73/48.03



PROGRAMME FINANZIERTE DUREN DIE EU