

Making sustainability tangible – the Sustainability Report of VA TECH



VA TECH.



SUSTAINABLE SOLUTIONS.



FOR A BETTER LIFE.

sustainable solutions. for a better life.
www.vatech.at

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 July 18, 2003

Innovative and sustainable technologies for the eco-efficient procurement of society



⇐ Turbines and generators to produce 100,000 GWh of electricity from renewable energy sources for 100 m people



⇐ High voltage transmission plants supplying power to 400 m people



⇐ Plants to supply water for 200 m people, wastewater treatment for 130 m people



⇐ Support for our customers with infrastructure solutions to reduce the energy demand

Metallurgical plants to produce 150 m tons of steel. This corresponds to the annual demand of the EU.

⇒



VA TECH products and services

**sustainability = innovative technologies and solutions
= customer benefit**



1. Focus on increased efficiency
We ensure that limited resources are used efficiently.

= higher efficiency
lower use of resources
lower use of energy



2. Focus on reduced emissions
We offer clean solutions.

= less CO₂ (10 USD/tCO₂)
reduced environmental expenditure



3. Focus on the plant life cycle
We extend the service life of industrial plants.

= direct cost savings

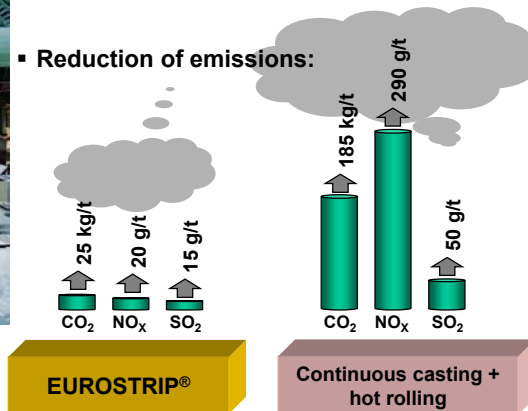
EUROSTRIP®

Comparison of EUROSTRIP® to conventional strip production¹⁾



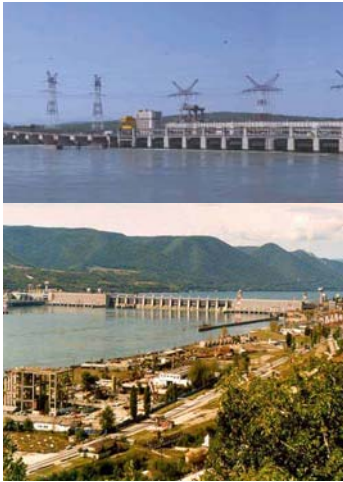
▪ Energy savings of 75%

▪ Reduction of emissions:



¹⁾ cold charging of slabs

Power plant upgrading and modernisation



- No additional investment in buildings/dams
- Improved efficiency
- Reduced maintenance costs, increased life cycle
- No CO₂ emissions
(No investments in fossil power generation)

“Iron Gates” (Romania)

- Project “Iron Gate I”: Output increase of 12% (additional 132 MW)
- Project “Iron Gates II”: Output increase of 16% (additional 36 MW)

Transmission control - Transformer technology

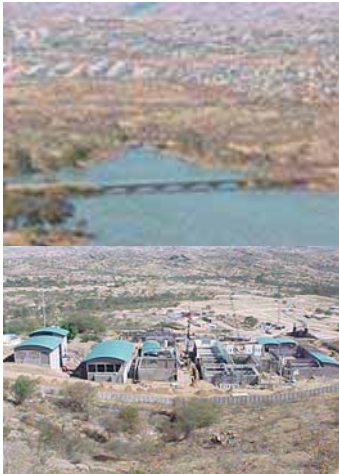


672 MVA/550kV Phase shifting transformer

Phase shifter to improve operational efficiency

- Minimising transmission losses (in complex networks down 50% possible)
- Increased network efficiency and asset utilisation
- Active power flow control
- Improvement of security of supply and power quality
- World class expertise in transformer technology

Drinking water preparation



Windhoek/Namibia

- World-wide unique plant for drinking water treatment from communal waste water
- Capacity of 21,000 m³/day
- Pilot project Windhoek/Namibia (200,000 inhabitants) with excellent water quality
- Water quality: significantly better than all WHO limits
- Cheaper than drinking water recovery from sea water
- Contract for long-term operations

Energy optimisation in buildings



Building utilities require energy. The optimisation of this consumption represents a major challenge. A task in which results can only be maximised by an holistic approach to all energy related factors.



Kaiserhof/Bad Gastein

- 1.250 kW of heating power mainly from renewable energy
- Reduction of the CO₂ emission by 86%
- 68% of the total energy requirement obtained through the use of heat recovery and thermal water

**Sustainability at VA TECH:
Creating a mission – VA TECH Group Workshop January 2002**



- 500 executives and employees work at a mission of the Group
- Milestone of a new corporate culture



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**From vision to reality
VA TECH Group Workshop – January 2003**



33 Group locations present solutions and measures to realise the mission in January 2003



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Start of sustainability reporting 2001 Challenges



- Decentralised Group structure (more than 150 companies)
- Establishing a standardised reporting
- Creating the structural framework conditions
- Formulating the basic policies
- Benchmarks: varying interpretation of sustainability and its reporting

Operative measures on sustainability 2002



- Implementation of a sustainability board as an advisory body of the Managing Board
- Formulation of targets and measures per division
- Deepening awareness at the locations and involving the sites in seeking “best practice solutions“
- Sustainability Report 2002 on the basis of the directive of the Global Reporting Initiative
- Co-operation with “Transparency International“



Sustainability report as part of ongoing development process

- Illustration of the development process
- Report based on the Global Reporting Initiative
- Communication tool towards all stakeholders
- Publication of sustainable technologies and solutions

Our basic attitude must not be dominated by the question “What will happen?” but rather by the question “What should we do in order to make the world a little better?”

Sir Karl Popper