EnviCare® consultancy for process technology



■ Founded in 1996

Locations

- > Graz, Austria
- Ljubljana, Slovenia

Our skills

- Biotechnology
- Process engineering
- Agriculture
- Chemistry
- > CAD in 3D



Bernhard Mayr, PhD CEO Graz



Rok Mihelic, PhD Ljubljana



Samo Hocevar, PhD CEO Ljubljana



Erwin Offenbacher, BSc Graz

■ We provide professional expertise for engineering and supervision of

- advanced waste water treatment
- > membrane separation
- biogas technology
- biological waste treatment
- > landfill leachate and gas treatment

■ Our target markets

- Austria
- Slovenia
- Croatia
- Hungary
- > Serbia
- Bosnia-Herzegovina

Our success is based on ...

- Technological skills
- Experience
- Excellent customer service
- Close co-operation with professional partners from specialised consultancies and universities

Topics and References

- Communal wastewater treatment: MEMJET®: 1st Austrian membrane bioreactor in 2002
- Waste water reuse up to drinking water production
- > Energy independent waste water treatment: Knittelfeld, 70000 PE



Renewable energy from Biogas



- > Engineering was completed for more than 20 plants
- > Projects implemented in Austria, Slovenia and Hungary
- ➤ Investment volume: approx. € 55 million in total
- > 12 MW electrical power
- > 14 MW thermal power

Development: Our mid term Targets

- > Expansion into South-East Europe
 - EnviCare® d.o.o. is already active in Ljubljana/Slovenia
 - So far professional engineering is provided by large European or American consultancies
 - On the other hand international funds financing large infrastructural projects often face significant problems with redemption payments and are less willing to invest
 - And.... there is a tremendous amount of work to do!

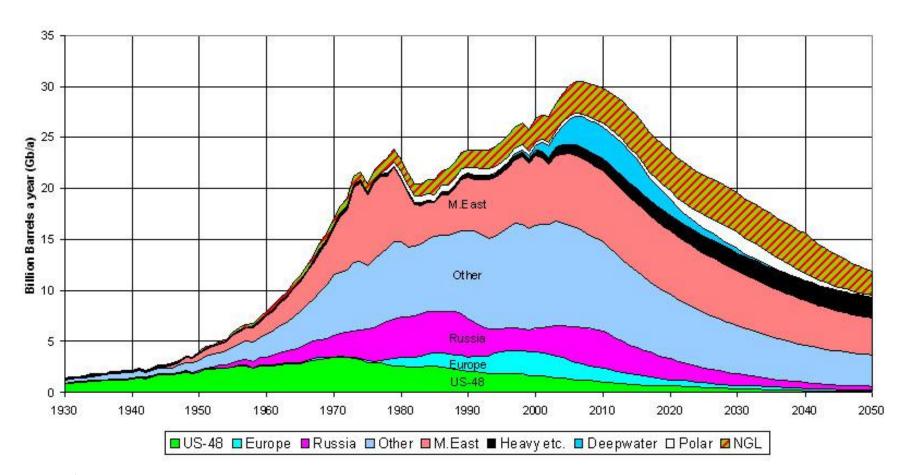


Development: Our mid term Targets

We intend to increase our engineering activities by employing highly skilled professionals locally and we provide tailor made solutions at an economic rate!

Research: Our mid term Targets – energy!

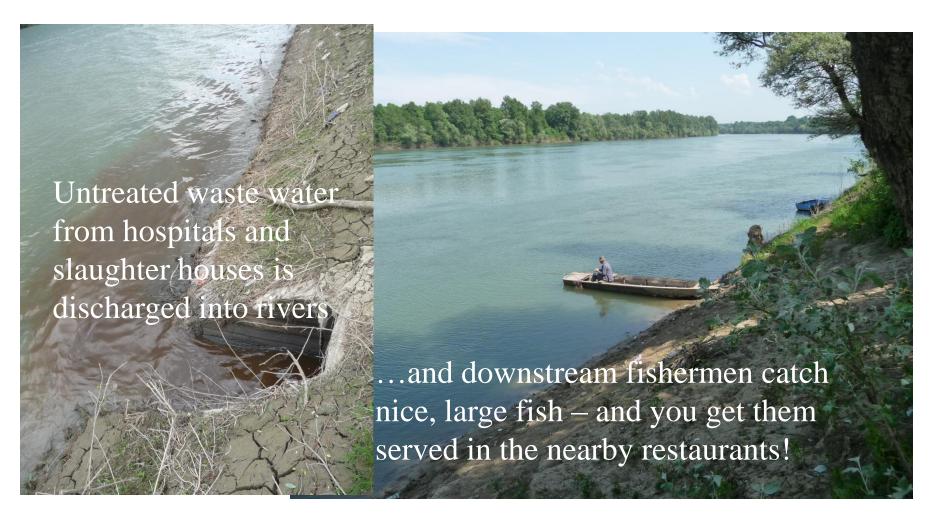
OIL AND GAS LIQUIDS 2004 Scenario



Research: Our mid term Targets – energy!

- > Energy independent waste water treatment
 - Today waste water treatment is energy consuming and it takes approx. 30 kWh/(PE*year)
 - We are working on implementing membrane powered anaerobic systems with zero energy consumption and an effluent quality ready for re-use
 - As a by-product we focus on extracting fertilizers such as Nitrogen and Phosphorus for agricultural reuse, especially as Phosphorus is already a depleting resource
- Improvement of anaerobic digestion
 - We are working on inventing a membrane based degassing system for the efficient reduction of by-products which slow down the digestion process
 - Depletion of Ammonia and Carbon-Dioxide will be achieved directly from the fermentation broth by means of membrane permeation
 - > Ammonia and Carbon-Dioxide can be recovered and further utilized

Why should you be interested in EnviCare®?



Thank you for your

Attention!

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