

**EU Strategy for the Danube Region (EUSDR)
PA 4 Steering Group Meeting – 9.6.2015 Budapest**



**EUSDR - Activities and Perspectives
of the Baden-Württemberg Ministry of the Environment,
Climate Protection and the Energy Sector**

Carmen Hawkins

Unit Europe and International Cooperation



Ministry of the Environment, Climate Protection and the Energy Sector Baden-Württemberg

= Member in 5 Steering Groups

- PA 2 Energy
- PA 4 Water Quality
- PA 5 Environmental Risks
- PA 6 Biodiversity, Landscapes, Quality of Air and Soils
- PA 8 Competitiveness (Transfer of Environmental Technologies)

A. Intentions and focus of activities

- Baden-Württemberg is playing an active role in the EU-Strategy for the Danube Region.
- Ministry of the Environment, Climate Protection and the Energy Sector wishes to enhance the **implementation of modern environmental technologies** in Danube Region.
- Modern, innovative technologies help to reduce **energy consumption and use of resources** and save money.
- Founder of **PA 8 Working Group Environmental Technologies and Energy Efficiency**

B. Activities

- **Exchange of experience and knowledge**

with governments, counties and municipalities in the Danube Region

The exchange of experience and knowledge can take place through mutual visits of delegations in Baden-Württemberg or discussions with experts

Goal: Support local authorities, prepare for the implementation of modern environmental technologies

- **Development of projects**

The main goal is to develop projects and organize project funding.

B. Activities:



- 2-weeks-visit of Ms. Gabriella Krempels Murányiné, Head of the Department Water Management, Hungarian Interior Ministry in Feb. 2013

<http://um.baden-wuerttemberg.de/de/ministerium/internationale-zusammenarbeit/eu-donauraumstrategie/hospitationen/>

- Different visits of delegations from Serbia and Bulgaria

<http://um.baden-wuerttemberg.de/de/ministerium/internationale-zusammenarbeit/eu-donauraumstrategie/informationsreisen/>





C. Presentation of Projects

1. Environmental Technology Network Danube Region (ETNDR)

Organizer of PA 8 Working Group

“Environmental Technologies and Energy Efficiency”

Project/network focusses now **on Waste Water Treatment and Sludge Management**

Goals

- Carrying out sustainable improvements to the environment in the Danube Region
- Increasing market opportunities for environmental technologies
- by connecting stakeholders (public institutions, research institutes and companies)



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Development and future of the Environmental Technology Network Danube Region (ETNDR)

Sustainability

Growth

Establishment

Beginning of 2017

Promotion of Environmental Technology in the Danube Region PROM-ET-DR, INTERREG DTP 2014-2020

October 2015

4. EUSDR Forum in Ulm; 4. Meeting WG EE&ET, PA 8, EUSDR

Middle of 2015

ETNDR Competence Atlas and ETNDR Website

May, 2015

50 Members BW; 54 Members DR, further confirmations; 4 Representatives in Austria, Bulgaria, Croatia, Serbia

January, 2015

Establishing Technology Partnership ETNDR Waste Water Treatment
3. Meeting Working Group EE&ET, PA 8, EUSDR; WS PROM-ET-DR Partner

October, 2014

Project related corporate travel to Split, Croatia; Participation on Joint Government Commission BW – DR-countries

September, 2014

ETNDR Forum in Bulgaria: „How to develop Waste-Water-Management in Bulgaria and Romania“; WS PROM-ET-DR Partner

June, 2014

41 Members BW; 33 Members DR; Presentations ETNDR in Baden-Württemberg and Danube Region

May, 2014

Grant from the Federal Ministry of Transport and Digital Infrastructure, Germany for preliminary INTERREG project PROM-ET-DR

May, 2014

IFAT München, ETNDR participation with own stand and Danube country presentations

March, 2014

Handover the leadership of the Working Group Environmental Technologies & Energy Efficiency EE&ET, PA 8, EUSDR

End of 2013

24 Members BW, 7 Members DR, further confirmations; 1. Representative in Bulgaria
DR-countries analysis. Events: WS Environmental Technology Network Danube Region, After Work Event Danube Region

April, 2013

ETNDR start as part on the implementation of the EU Strategy for the Danube Region EUSDR, PA 8 (Competitiveness and Cluster Development)



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1. Environmental Technology Network Danube Region (ETNDR)

Internet:

<http://um.baden-wuerttemberg.de/de/ministerium/internationale-zusammenarbeit/eu-donauraumstrategie/projekte/umwelttechniknetzwerk-donauraum/>

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C. Presentation of Projects



2. Integrated management of wastewater, biomass and energy in the municipalities of Stara Pazova and Indjija, Serbia

- Proposal of the **sustainable wastewater management concept**
 - Regional organic material flows such as bio-waste and agricultural residues are incorporated in the WWM concept, aiming on the generation of a regional added value (e.g. additional energy)
 - The selected region will serve as a pilot region → transferability to the other Serbian communities / other Danube regions communities
- Serbia applied for € 43.5 Million IPA funding for the project realisation

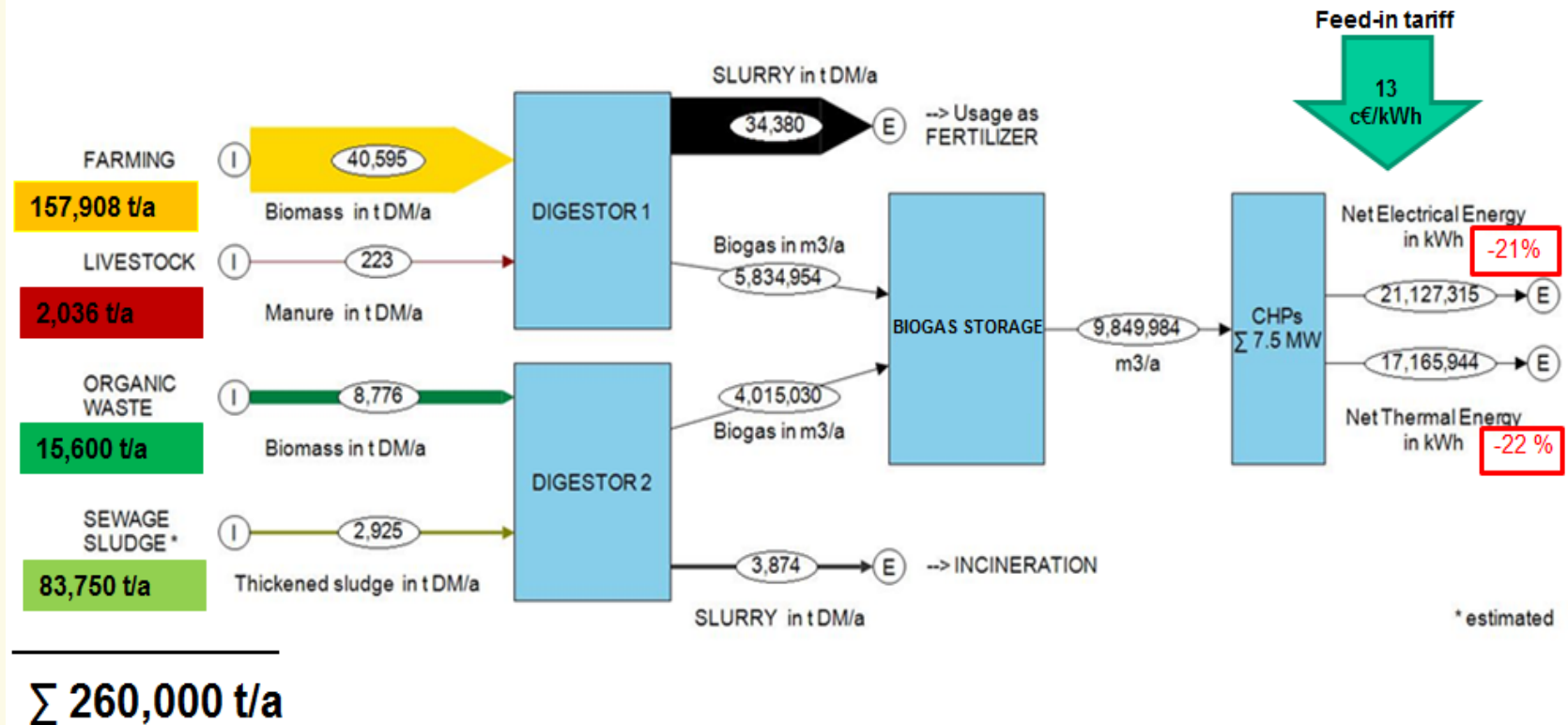


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Possible Scenario: Energy and Material Flows

115,000 Inhabitants



© Universität Stuttgart, ISWA



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- Baden-Württemberg funded two follow-up projects in Serbia carried out by the University of Stuttgart, ISWA:
 - **“Support for planning and conduction of a wastewater measurement campaign”** which aimed at the determination of precise pollutants loads for subsequent WWTP planning phase in Stara Pazova.
 - **“Impact of Wastewater Discharges on Water Quality”** - Danube River water quality samples and sediments were collected upstream and downstream (wastewater discharge) and analysed in cooperation with the University of Novi Sad with regard to standard parameters, heavy metals and micro-pollutants.

2. Integrated management of wastewater, biomass and energy in the municipalities of Stara Pazova and Indjija, Serbia

Further information:

<http://um.baden-wuerttemberg.de/en/international-cooperation/the-eu-strategy-for-the-danube-region/projects/analysis-of-wastewater-biomass-and-energy-management/>

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C. Presentation of Projects



3. Training module for the waste water sector in Croatia

- Modern sewage treatments need suitably trained and skilled personnel.
- **Training and Competence Center (TCC) Danubius** in Ulm developed a six-weeks-modular course including all necessary documents (lectures, exercises and test, information leaflets) in Croatian.
- funded by the Ministry of the Environment, Climate Protection and the Energy Sector Baden-Württemberg (approx. € 80,000)

3. Training module for the waste water sector in Croatia

- Training course is available in Croatian for neighboring countries (with similar language) and for translation into other languages

- Further Information:

<http://um.baden-wuerttemberg.de/en/international-cooperation/the-eu-strategy-for-the-danubregion/projects/training-module-for-the-water-sector/>

- Contact:

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C. Presentation of Projects



4. Sewage sludge incinerator in Eger (HU)

- Project arose from a cooperation of Environmental Technologies Platform B-W (Plattform Umwelttechnik e.V.) and hungarian entrepreneur Ferenc Morvai, Biomorv.
- Sewage sludge incinerator burns wet sludge right at the spot of the waste water treatment plant and produces heat and electricity.
- Waste gas and all other processes of the plant were examined by joint institutes of Universities of Stuttgart and Budapest to control the environmental impact of all processes.



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Baden-Württemberg funded two sub-projects:

The examination and the optimization of the plant with regard to compliance with EU standards. This will help the project towards achieving market maturity.

The projects are carried out by the University of Stuttgart, ISWA (Institute for Sanitary Engineering, Water Quality and Solid Waste Management) at the University of Stuttgart in cooperation with the University of Budapest.

- Further Information:

<http://um.baden-wuerttemberg.de/de/ministerium/internationale-zusammenarbeit/eu-donauraumstrategie/projekte/klaerschlammbrennungsanlage-eger/>

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D. Project Funding

- State Ministry Baden-Württemberg

EUSDR-Fonds € 400,000 p.a.

For all 11 Priority Areas of EUSDR

Environmental Technologies, Renewable Energies and Energy Efficiency is one of the key aspects of the funds

In general 2 ET-projects are funded each year

Ministry of the Environment, Climate Protection and the Energy
BW will support applications

D. Project Funding

- Ministry of the Environment, Climate Protection and the Energy
BW generally has no funding

Exeptions: in 2014 three projects (€ 186,000) were funded (Eger (HU), TCC Danubius (HR), Stara Pazova (SRB))

E. INTERREG V b Danube Region Project Idea from BW

1. Promotion of Environmental Technologies in the Danube Region (PROM-ET-DR)

The main objectives: Transfer, Development and Implementation of Innovative Waste Water Treatment and Sludge Management in the Danube Region (WWT&SM-DR).

Project Partners:

8 partners from Austria, Bulgaria, Croatia, Germany, Hungary, Romania, Serbia and Slovakia.

Lead Partner: Umwelttechnik BW with the ETNDR, Baden-Württemberg.

Partnerships includes business support center, cluster, energy research institute, water institute.

E. INTERREG V b Danube Region Project Idea from BW

1. Promotion of Environmental Technologies in the Danube Region (PROM-ET-DR)

Partner Search (outside Germany):

Hungary: university with focus on WWT&SM

Slovakia: county council, municipality or water association

Romania: county council, municipality, politically operating organization or some suitable NGO.

Contact:

Rumjana Hilpert, ETNDR

E. INTEREG V b – Project Idea

2. Development of Strategies and Tools for Sustainable Water Management in the Danube Catchment²

- For ecological and chemical water quality it is of particular importance nutrients input from raw and treated wastewater, pollution originating from storm water (organic pollution, nutrients, organic and inorganic trace substances), land use and the river basin development.
- Preliminary aim is to develop monitoring strategies as well as holistic chemical and ecological assessment methods for the Danube region.
- Confirmed partners: TU Vienna, Institute for biological research – University of Belgrade, SME Festo Didactic Baden- Württemberg
- the opinion by the PA 4 is vital for decision makers
- Interested partners are welcomed to contact
Ms. Jovana Husemann, University of Stuttgart, ISWA



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E. INTERREG V b Danube Region Project Idea from BW

3. Development of regionalisation models for estimating design discharges used for water resources management tasks at the Lower Danube Region (South-Eastern Europe)

Lead partner: National Institute for Hydrology and Water Management Romania

Partners in Baden-Württemberg: KIT Karlsruhe, Wald and Corbe

Goal: To find partners in Croatia, Hungary, Serbia, Slovakia and Slovenia

Contact: Stanka Savova, Tel. +49 7229 / 1876-170,
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E. INTERREG V b Danube Reg Project Idea from BW

4. OpWaT – Optimum Wastewater Treatment

To improve elimination of organic pollutants during wastewater treatment in industrial and/or municipal facilities respecting cost efficiency.

Partners: Research institute (DE, coord., analytics), SME (DE, online -analyser), Municipal WWTP, research institutes (SLO, RS)

Associated Partners: Municipal WWTP (DE)

Stakeholder: International waterworks association (IAWD), authorities (DE, AT), evtl. ICPDR

E. INTERREG V b Danube Region Project Idea from BW

Partner Search (outside Germany):

- Industrial and municipal WWTPs
- Wastewater / engineering experts (Uni or SME)
- Communication of outcome and results (Uni or SME)
- Training / Transfer of best practice (Uni)
- Water related authorities

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Thank you for your attention!

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