



A Polish-Norwegian Initiative: Facilitating the use of ETV to increase energy efficiency in water sector

The ETV4Water Project Introduction

Izabela Ratman-Kłosińska, ETV4Water Project Coordinator Environmental Technology Verification Body IETU

Training for water technologies test and certification bodies, research centres and laboratories Building capacity for high quality test data generation on innovative energy efficient technologies for water sector for the needs of ETV Aquateam COWI, 24.10.2017, Oslo, Norway

Norway grants

Project **Facilitating the use of ETV to improve Energy efficiency in water sector** has received funding from Norway Grants 2009-2014 in the frame of the Bilateral Cooperation Fund on the level of the Operational Programme PL04



• Title:

Facilitating the use of ETV to increase energy efficiency

in water sector

• Goal:

Promotion of environmental technology verification (ETV) as a tool facilitating market uptake of innovative technologies improving energy efficiency of municipal wastewater treatment plants.

Implementation:

Norway

grants

August-October 2017



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IETU

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The ETV4Water Project

Partners:





Funding source



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Norway

grants

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Partnerzy projektu:

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Why energy efficiency in water sector?

- Water facilities among the largest consumers of energy in a community and thus the largest contributors to the total GHG emissions
- Energy costs may account for about 25-30% of the operational costs of a wastewater treatment plant and even up to 80% of a water treatment plant
- **Global trends:** wastewater treatment plants as energy producers
- Challenges:
 - Climate change: water deficits, extreme events, water (re)use
 - Circular economy : **NUTRIENTS-ENERGY-WATER:** water facilities as managers of resources including energy , water and wastewater a valuable resource

INNOVATIONS CAN MAKE THE DIFFERENCE

Finansowanie projektu:



Norway

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23.10.2017



Why ETV?

Verified once accepted everywhere





Why ETV4Water?

Poland

- Member of the EU EV Pilot Programme
- Verification Body for water technologies
- Water sector seeks innovations in energy efficiency
- Catching up country in terms of innovation
- ISO 14034 proposed for adoption as national standard

Precursor of EU ETV Programme (NOVATECH Progamme)

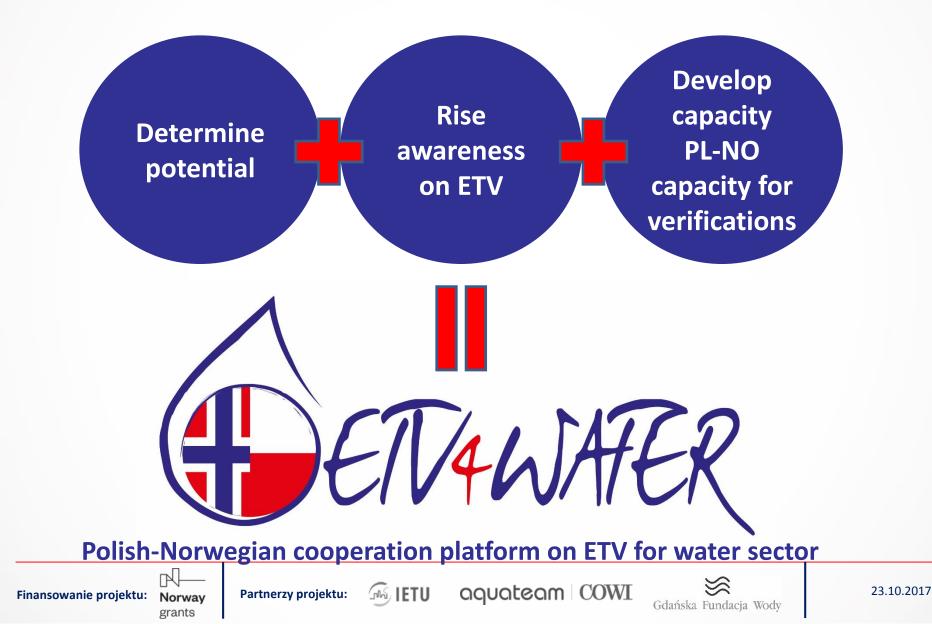
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- Testing bodies for innovative water technologies
- Experience in implementing innovations incl. public sector
- ISO 14034 adopted as a national standard





Projekt ETV4Water





Accomplishments

Deteremine Potential

Report "Pathways for improving energy efficiency at municipal WWTP

Workshop with Polish WWTPs to determine innovation needs

List of parameters relevant for improving energy efficiency of WWTPs

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Rise awareness on ETV

Workshops on ETV for technology providers and users at POLEKO SYSTEM Fair in Poznań, Poland

Workshops in Norway

Brochure about ETV for technology providers and purchasers

Analysis on the use of ETV statements in public procurement in Poland

Develop capacity

Identified candidate testing bodies Dedicated trainings for testing bodies in Poland and Norway

Protocol for testing technologies for the needs of ETV

ETV Body IETU and Aquateam COWI as contact points for PL-NO ETV cooperation platform

Polish-Norwegian Cooperation Platform on ETV for water sector

Finansowanie projektu:



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Finansowanie projektu:

Anticipated results/benefits in a short time perspective

- a Polish-Norwegian platform (capacity, competences) established for business use of ETV in the implementation of innovations for water sector that will:
 - increase the trust of Polish and Norwegian investors in innovative energy efficient water technologies
 - give credibility to developers of innovative energy efficient technologies for water sector
 - help technology users to benefit from innovation and select technologies meeting their needs
 - reduce financial and technological risk for investors and purchasers from water sector (especially public) investing in new technologies
 - facilitate and accelerate the diffusion of Polish and Norwegian innovative water technologies on national, EU and international markets

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- facilitated involvement of SMEs in building a low-carbon economy
- increased awareness of WWTP on energy efficiency improvement options

IETU

- recognised user needs in the area of energy efficiency at WWTP
- direct contact to and ability to win leads

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• gaining new ideas and partners for future R&D&I projects

Partnerzy projektu:



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Gdańska Fundacja W



Finansowanie projektu:

Norway

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Anticipated results/benefits

in a long time perspective

- Facilitated bilateral cooperation on the development, implementation and transfer of innovative water technologies of high potential to compete on global markets
- Cooperation foundations for the new perspective of the Norwegian Funds
- Social and environmental benefits due to improved energy management and in consequence reduced environmental degradation

GNG

Partnerzy projektu:

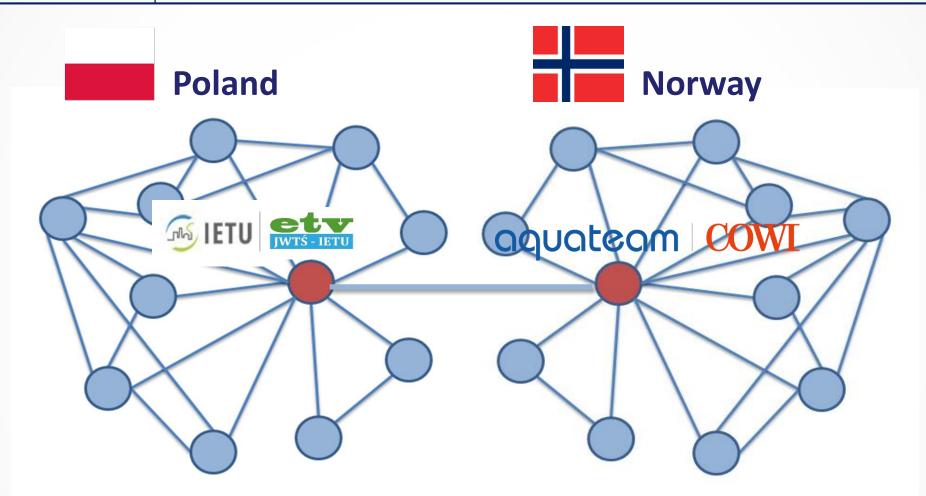
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Cooperation network



Network of competent test bodies for test data generation on the performance of water technologies for the needs of ETV

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Contacts





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Zapraszamy do współpracy / Vi inviterer deg til å samarbeide

Finansowanie projektu:

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