

Good Practice template

To submit a good practice, you must register on the Interreg Europe website. You can submit your good practice through your user dashboard (good practices).

Contact person

A contact person should be indicated for each good practice submitted to the programme. Once published, this person can be contacted by members of the Interreg Europe community to get further information on the practice.

Per default, the contact person is the author of the practice. The details below are therefore completed automatically from your profile.

Your details	First name Sînziana
	Last name Olcean
	Email sinziana.olcean@adrvest.ro
	Phone number 0040256491923

Do you want to indicate a different contact person for this good practice? No

Only members of the Interreg Europe Community can be indicated as contact person for a good practice.

In case 'yes' is selected, the following section appears:

Email of the contact person: _____

Please note that you, as the author of the good practice, will remain responsible for editing this practice if needed.

Are you involved in an Interreg Europe project? Yes

If you are involved in more than one project, please choose the project for which you are submitting this good practice.
See our list of [approved projects](#).

In case 'yes' is selected, the following section appears: CEI BOOST

Please select the project acronym:

Drop-down list of Interreg Europe approved projects

Organisation in charge of the good practice

If your organisation is not the one in charge of the good practice, you can indicate the relevant organisation in this section of the form. Your contact details will still be linked to the submitted good practice.

Is your organisation the main institution in charge of this good practice? No

In case 'yes' is selected, you can review your organisation's details. In case 'no' is selected, you can select an existing organisation or add a new organisation.

Aquatim

Good practice general information

If you are submitting a good practice as part of an Interreg Europe project, the thematic objective and sub-topic are chosen for you.

If you are not part of an Interreg Europe project, please remember to choose the most relevant thematic objective and sub-topic for your good practice.

Thematic objective of the practice:	In case the good practice is not part of an Interreg Europe project, selection of one of the 24 specific objectives
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Implementation level of the practice:	Select National/Regional/Local
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Country	Romania
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Region	West Region
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City	Timisoara
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Upload your own (in compliance with the copyright rules) or select one from the pool of pre-defined images. Recommended dimensions: 440 x 450 pixels, 1MB.

Practice image



Title of the practice	Aquatim – Mud energy recovery project
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Good practice detailed information

The questions below in italic are optional.

Short summary of the practice: This short text works as a preview for the good practice and it will appear at card level. [160 characters]
Conversion of organic substances contained in sludge into synthesis gas generating electricity

Please provide information on the practice itself. In particular:

- What is the problem addressed and the context which triggered the introduction of the practice?
- How does the practice reach its objectives and how it is implemented?
- Who are the main stakeholders and beneficiaries of the practice?

[1500 characters]

Water infrastructure and sewerage, coming from domestic, commercial and industrial sources are increasing problems for the citizens of West Region in the last years. A local, but also national problem is the removal of surplus biological sludge, as Timisoara has a unitary sewerage system, meaning that industrial and rainwater are collected together.

But sludge can have negative effects on human health, with toxic substances that can be present in soil, plant crops, animals. So, Aquatim SA, the regional operator of public utility services, water supply and sewerage, in the area of Timiș county is implementing a circular economy project. At the beginning of 2022 the project of building a new treatment plant, using the funds of Large Infrastructure Operational Program (ERDF, Cohesion Funds and own co-financing) has been signed. This super generator will shift from the current process of cleaning the organic substance contained in sludge towards an eco-friendly solution, using the pyrolysis process. The proposed technology is TWO (Thermal Waste Oxidation), consisting of a first step of pyrolysis of dry sludge to 80% dry matter by heating to a temperature of 280-320°C, in the absence of oxygen, with the generation of a synthesis gas. In the second stage, the gas is burned and the resulting heat is used to dry the sludge and generate electricity.

The beneficiaries are around 539,000 inhabitants, of which 95% benefit from a centralized water supply and 74% from sewage.

Timescale (start/end date): Feb. 2022 – end 2024 / ongoing

Resources needed: Please specify the number of funding/financial resources used and/or the human resources required to set up and to run the practice. [300 characters]
Total value – 10.35 MEUR, excluding VAT

Evidence of success (results achieved):	<p>Why is this practice considered as good? Please provide factual evidence that demonstrates its success or failure (e.g., measurable outputs/results). [500 characters]</p> <p>A lot of energy is used for drying the mud during the current process of cleaning the organic substance from the sludge and the daily disposed dried mud quantity is around 100 tons. The drying process costs are high, and disposal started to be difficult in West Region.</p> <p>The thermal energy is used to reduce the volume of the substance which will be reduced from 100 t/day to 12 t/day and so evacuation and transport costs will be greatly reduced.</p>
Potential for learning or transfer:	<p>Please explain why you consider this practice (or some aspects of this practice) as being potentially interesting for other regions to learn from. This can be done e.g., through information on key success factors for a transfer or on, factors that can hamper a transfer. Information on transfer(s) that already took place can also be provided (if possible, specify the country, the region – NUTS 2 – and organisation to which the practice was transferred)</p> <p>[Technical: A good practice be edited throughout a project lifetime (e.g., to add information on the transfers that have occurred)] [1000 characters]</p> <p>The learning potential is clear and know-how can be transferred to other municipalities interested in environmentally friendly solutions for sludge recovery and secure funding for the initiative.</p> <p>Additional energy for the heating of technological spaces and production of electricity (~300 Kwh) system will be produced. The energy recovery system for sludge will be sized for an amount of 1.16 tones of dry matter sludge per hour, which is about 91 tones of dehydrated sludge (at a minimum of 28% dry matter) per day. At the end of the project the plant will operate without fuel input and will comply with all the requirements of the legislation in force both at national and European level.</p>
External website (optional):	<p>Link to where further information on the good practice can be found</p> <p>https://poim.aquatim.ro/aquatim-isi-propune-valorificarea-energetica-a-namolului-de-la-statiile-de-epurare/</p>
Tags related to your practice (optional):	<p>Select from existing keywords</p>
Documents (optional):	<p>Add documents to support your good practice</p>
Video (optional):	<p>https://youtu.be/wvE87SFhU-k?si=xGZKmjkrGTSPygn5</p> <p>https://youtu.be/XsrkhuR8ITQ</p>
Images (optional):	

