

OUTPUT FACTSHEET: STRATEGIES AND ACTION PLANS - ITALY

Project Title: REEF 2W—Increased renewable energy and energy efficiency by integrating, combining and empowering urban wastewater and organic waste management systems

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Output factsheet: Strategies and action plans

Project index number and acronym	REEF 2W
Lead partner	ENEA
Output number and title	OT2.2 regional Strategies
Responsible partner (PP name and number)	adelphi
Project website	https://www.interreg-central.eu/Content.Node/REEF-2W.html
Delivery date	28.01.2020

Summary description of the strategy/action plan (developed and/or implemented) Max. 2000

The REEF 2W strategy aims to establish organic waste as a source of renewable energy in the Italian REEF 2W pilot study region. The pilot is located in Emilia Romagna region that has already planned and launched energy strategy since 2008. Most of the targets of such plan were already reached, but environmental critical climate situation stress everybody to increase the targets of the new plan to more ambitious levels. The vision of the new regional energy plan continue to stimulate the production of energy from organic wastes not only from agricultural residues, but also involving the other organic biomasses available from wastewater treatment as well as from wastes to increase the energetic neutrality of the region and reduce the carbon dioxide emissions and the fine particles, and increase the RES used for heating and cooling industrial and urban buildings. The proposed REEF 2W strategy defines strategic actions in the area of the pilot plant able to facilitate the achievement of the regional targets. A strong exchange of information and experience has been conducted not only with the local authorities more linked with the pilot plant, but also with the regional environmental authority to develop an evaluation of the energy potentiality of all the treatment plants existing in the region (wastes and wastewater). Furthermore, based on the proposed REEF 2W strategy a memorandum of understanding was elaborated and signed by the local authority. This shall ensure further establishment of energetic use of wastewater also beyond the premises of the wastewater infrastructures even after the end of the REEF 2W project.

NUTS region(s) concerned by the strategy/action plan (relevant NUTS level)

The strategy concerns the Italy province of Northeast Italy (NUTS-2 Region: ITD59).

Expected impact and benefits of the strategy/action plan for the concerned territories and target groups

In the territory of the pilot plant the expected benefit will be the reduction of the energetic costs of the waste treatment, the possibility to have a neutral GHG emission plant and the possibility to increase the numbers of the employees. At a regional level the impact expected is the beginning of a new strategy for increasing especially where an already heat distribution system already exists the recovery of heat from thermal treatments or from wastewater.

Sustainability of the developed or implemented strategy/action plan and its transferability to other territories and stakeholders

The sustainability of the developed strategy will be ensured through the available memorandum of understanding with the local authorities. Although the recovery of energy from wastewater and other not actually heat used in the treatment plants in the region in this moment the potential of this renewable source will be evaluated only from a strategic view and to implement further action.

The transferability of the developed strategy to other Italian territories is also possible especially in northernmost areas of Italy where the advantage of heat from RES could be used for longer period of the year..

Lessons learned from the development/implementation process of the strategy/action plan and added value of transnational cooperation

The development of the strategy was a rather dynamic and interdisciplinary process than a straightforward and monodisciplinary one. An overview on the contents/aims of existing national and provincial (regional) energy strategies and funding schemes certainly is an important prerequisite. Furthermore, good knowledge concerning the perceptions, acceptations and even prejudices of the different stakeholder (groups) possibly involved in the energetic use of wastewater is crucial. It is in any case develop a cooperative action that involves with an objective information, the policy makers that should take the responsibility to push their territories toward a more sustainable development, involving in the same time also the civil society and the productive sector that sharing the views and ideas could help in the production and in the utilization of RES

References to relevant deliverables and web-links **If applicable, pictures or images to be provided as annex**

Relevant deliverables are:

- DT2.5.1 (Regional strategy)
- DT2.3.1 (Feasibility Study)