

Description of best practice

Best practice	
Title	Collection and use of urban wood waste
Picture	
Domain	Waste collection, treatment and disposal activities; materials recovery, recycling
Source of wood	wood residues from the public areas, playgrounds, green areas, barks, chips, branches, etc.
Location	Sfantu Gheorghe, Covasna, Romania
Implementers	Tega S.A
Actual status	Running
Approach	<p>TEGA operates in urban public services area and initiated large campaign for wood residue collection in cities/villages in Covasna County. TEGA uses wood chips as fuel in its heating plant and provide heating for its workshops, offices. The capacity of the heat boiler is 200 kWt.</p> <p>The idea was to collect wood residues from green areas. Collected wood residues are chopped and crushed and can be delivered for energy production. Types of collected waste wood: i.e. forest sanitation, gardening cuttings and cleaning operations. The types of biomass used are wood residues (barks, chips, branches).</p>
Main results	TEGA company promotes and invests in acceleration of the entire biomass chain. The company members participate in collection, chipping activities and produce more than 500 m ³ woodchips. They use this biomass material and valorize at the company. Moreover, training sessions on bioenergy issues, active involvement in local projects such as at waste collection actions TEGA company was actively involved.

Lessons learned	<p>Energy problems are so acute, that it is no longer possible to satisfy the local's constantly growing needs. This growth of energy demand must be increasingly satisfied by diversified energy sources, including sustainable and renewable resources. Biomass is a renewable energy option that can be practical and safe, can strengthen the circular economy, and can help ease the urgent strain on our planet's ecosystem.</p>
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Code	<p>BP_RO_01</p>

Best practice assessment

Region	Centru Development Region / Romania Covasna county
Time scale	2010 -
Mobilization Potential	500 m3 comparing to normal practice, affected area is 3400 km2
Kind of wood concerned	Wood residuals, branches, barks, chips, old wreaths, christmas trees, etc
Sustainability Potential	Very positive
Impact on environment & biodiversity	TEGA S.A. focused on the economic sustainability of the initiatives based on the circular economic model.
Ease of implementation	Easy
Economic impact	257 employees, Turnover 1 mil. €
Job effect	20 new jobs
Income effect	The activity of the company is more sustainable by reducing the energy expenses
Specific knowledge needed	Biomass management, energy engeneering
Costs of implementation	Approx. 40.000 €
Technical readiness level	Applicable
Key information for adoption	Urban wood waste to energy