



Capturing renewable energy resources

Examples of investment in renewables, selected from 473 energy efficiency and renewable energy investment projects with a combined value of 189 million Euro, which were financed using **Sustainable Energy Finance Facilities (SEFFs)**

Renewable energy

- **Bio energy: biomass, biogas, biodiesel, bioethanol**
- **Wind energy,**
- **Solar collectors (thermal) and solar panels (photovoltaic)**
- **Hydroelectricity (dams, rivers) and wave energy**
- **Geothermal energy.**

RoSEFF was used to finance some of these renewable energy resources, and other SEFFs have financed some of the others.



River Someșul Rece, Cluj



Three Pharm of Târgu Mureș is an importer and distributor of medical devices and supplies for hospitals and healthcare facilities. In 2014, the company bought several old small or micro hydro power plants from Hidroelectrica, and decided to use a

credit of more than half a million Euro from UniCredit Bank towards the cost of their refurbishment. Șomeșul Rece Micro Hydropower Plant, featured three small Brates turbines dating from 1988 which have now been replaced with a single **Kaplan 0.3 MW unit.**

The investment was supported with two EU-financed studies by Tractebel Engineering - an Environmental Impact Assessment Report which was approved by EBRD, and a Rational



Energy Utilisation Plan which explains the eligibility, technical and financial aspects of the investment to be financed using the RoSEFF.

Sighișoara, Mureș



Carnicomp, who prepares and sells a wide range of pork, beef and poultry products from its own network of shops, invested in sustainable energy by **installing four solar**

collectors with vacuum tubes for hot water preparation and by replacing a specialist boiler for meat products. The investments combined to bring natural gas savings of about 46%.



The full cost was financed with a RoSEFF credit from **BRD Groupe Société Générale** and the company qualified for a 15% grant from EU.

Cosmești, Galați



Pitran - a baker – replaced two old LPG-fired baking ovens with a single, new, energy-efficient wood-fired oven - a Polin TV Drago 200 – which features an innovative tube bundle structure that maximizes heat recovery

from flue gases.

As a result of the investment, baking capacity rose by **39%**. LPG consumption was eliminated, and - as wood is a carbon neutral energy source – CO₂ emissions were reduced to zero.

The oven was financed with the help of a **RoSEFF credit of 25,000 Euro from BCR.** This investment repaid itself from energy cost savings less than a year.

Vama, Suceava

Saucolemn is a wood processing company with a 'from the tree to product' approach, meaning forestry, transportation, primary timber processing, steaming and drying, producing panels of solid beech and oak and manufacturing staircases and risers, stratified wooden doors and windows with double glazing as well as solid wood tables and chairs for households and gardens.

Tractebel Engineering provided EU-financed (free) technical consultancy through RoSEFF to help Saucolemn choose a **biomass cogeneration**



system that uses wood-waste from the manufacturing processes to create heat and power for its operational needs.

Saucolemn settled on a system that produces 82% in the form of heat for wood steaming and drying and other 18% is electricity for Saucolemn's own needs, with surplus power being sold through the grid.

This 'carbon neutral' solution costing 915,673 Euro was 85% financed using a RoSEFF credit from **Banca Transilvania.**

River Arieș, Alba



hydro power station on the Arieș River, upstream of Câmpeni. The two million Euro investment is expected to feed 8,129 MWh of renewable electricity into the power grid every year.

Uzinsider Contractor (UGC), an engineering company, used a **RoSEFF credit** of 900,000 Euro from **Banca Transilvania** towards financing of a **small**



Bruiu, Sibiu

Agrora selected two sustainable energy measures from the RoSEFF List of Eligible Measures and Equipment (LEME), an **energy-efficient tractor** (John Deere 6150M) and a Westech **solar hot water system** with vacuum tube collectors.



As a result, the investor received a 15% EU Grant on the value of a **RoSEFF credit** of around 56,000 Euro from **Banca Transilvania**.

... and Biogas? Wind? Photovoltaic?

These technologies were not financed using RoSEFF, but have been financed using other SEFFs



ENERGY EFFICIENCY FINANCE FACILITY

EEFF, another of EBRD's Sustainable Energy

Financing Facilities in Romania was used to finance several rooftop **photovoltaic** investments, such as this PV installation



pictured being installed at SC Phoenix Y of Baicoi, **Prahova** the producer of 'Gusto' corn puffs.

EEFF also financed this biogas investment by **Comalat of Nanov**, Teleorman County, Romania – a producer of drinking milk, sour cream, cheese and yoghurt.

The company used a combination of this **biogas** plant and energy efficiency



measures to cut its GHG emissions by 57%.



MidSEFF – EBRD's Mid-sized Sustainable Energy Finance Facility for **Turkey** financed investments in renewable energy, waste-to-energy and industrial energy efficiency.

MidSEFF extended credits of more than 223 million Euro through local partner banks to help finance 15 **wind energy** investments with a total installed capacity of 387 MW.

Sustainable Energy Finance Facilities

RoSEFF was one of the European Bank for Reconstruction and Development's many SEFFs which finance energy efficiency and renewable energy opportunities in several countries. For details please visit www.ebrdseff.com.

There have been three SEFFs in Romania, which helped finance 473 energy efficiency and renewable energy projects by extending 136 million Euro in credits through EBRD's partner banks for investments totalling 189 million Euro:

- EEFF - energy efficiency for large and small private sector companies
- MFFEE - energy efficiency for municipalities; and
- RoSEFF - energy efficiency and renewable energy for small and medium-sized enterprises

Key characteristics of the SEFFs in Romania:

- Financing of up to 1 million Euro (RoSEFF), 2.5 million Euro (EEFF) or 5 million Euro (MFFEE)
- EU grants ranging from 10% to 20%
- Free (EU-financed) technical consultancy from Tractebel Engineering
- Very fast administrative procedures



Finanțat de Uniunea Europeană

Conținutul este responsabilitatea exclusivă a Consorțiului RoSEFF și nu reflectă punctul de vedere al UE sau BERD