

# 2022 TIPS REPORT



PROMOTION OF  
SUSTAINABLE  
RESOURCES  
DEVELOPMENT



# FOREWORD

During the previous year, Lithuania faced several challenges, including conflicts in neighbouring regions and soaring energy prices. However, even in these times, businesses and public sector organisations not only managed day-to-day issues but also made long-term investments. The Limited Partnership Promotion of Sustainable Resource Development (TIPS) remained a reliable partner for those seeking financial resources for investment projects.

Created by the Public Investment Development Agency (VIPA) UAB in collaboration with the European Energy Efficiency Fund (eeef), this investment platform aims to encourage investments that reduce energy consumption and increase energy efficiency, as well as promote the expansion of green energy sources. Consequently, its importance has been particularly significant as organisations seek to decrease their energy costs.

However, there were challenges, including a notable rise in the number of power generation projects in the country. This led to extended coordination times with electricity grid infrastructure management companies and delays in issuing permits. We are pleased that despite these challenges, 10 financing agreements, amounting to €9.4 million, were signed in 2022, indicating a continued interest in investments.





Additionally, the range of financed projects expanded, encompassing not only solar park installations but also initiatives that replaced gas heating with biofuels and included upgrades to heating systems in buildings. This particular type of project offers the potential for both rapid energy savings and reductions in greenhouse gas (GHG) emissions.

Another project, which has received funding, aims to modernise the street lighting infrastructure in a major city. This initiative will enhance energy efficiency and lead to cost savings for the municipality. The project is being executed through a public-private partnership, benefiting from the valuable experience of the VIPA team in previous projects.

“We are currently undergoing some organisational changes, as VIPA is merging with other similar organisations. Our aim is to enhance the appeal of the tools provided by TIPS. For instance, following the cooperation agreement signed with the national development institution 'Investment and Business Guarantees' (INVEGA) last autumn, small and medium-sized enterprises that have previously received a TIPS loan can now avail themselves of the loan interest reimbursement facility,” explains Kristina Vaskelienė, the Acting Director General of VIPA.

According to her, the TIPS team is continually seeking new and innovative projects that promote energy efficiency, reduce energy demand, decrease GHG emissions, and explore opportunities to expand investment areas and attract new investors. “It is evident that meeting the targets set by the EU Green Deal and the mandatory national GHG emission reduction objective requires us to go beyond conventional investments and explore innovative and sustainable solutions. We are excited to present such projects in next year's report,” concludes Kristina Vaskelienė.



# ABOUT PROJECTS

## UAB SOLARBANK I AND UAB SOLARBANK II

Funds were provided to Solarbank for development of a remote 3,35 MW renewable energy generating solar energy plant. Solarbank uses high-efficiency solar panels and maximizes energy generation while minimizing environmental impact. By this project green energy production was made available for several hundred household prosumers, allowing to reduce carbon emissions and create a more sustainable future for generations to come.

### SOLARBANK I

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>1,65</b>	MATURITY	<b>1 YEAR</b>
FINANCIAL CLOSE	<b>2022-03-10</b>	TIPS INVESTMENT SIZE (MEUR)	<b>0,7</b>	ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>

### SOLARBANK II

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>1,36</b>	MATURITY	<b>2 YEARS</b>
FINANCIAL CLOSE	<b>2022-01-24</b>	TIPS INVESTMENT SIZE (MEUR)	<b>1,1</b>	ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>

TOTAL PROJECT SIZE (€)	<b>3,01</b>
TIPS INVESTMENT SIZE (€)	<b>1,8</b>
OBSERVED TC02/PER YEAR EMISSION SAVINGS	<b>678,33</b>
ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>





## UAB SOLARBANK III

Another project with Solarbank for development of clean and sustainable energy to power local communities. Funds provided for remote 1,84 MW renewable energy generating solar energy plant. Solarbank uses high-efficiency solar panels and maximizes energy generation while minimizing environmental impact. By this project green energy production was made available for several hundred household prosumers, allowing to reduce carbon emissions and create a more sustainable future for generations to come.

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>1,97</b>	MATURITY	<b>2 YEARS</b>
FINANCIAL CLOSE	<b>2022-07-11</b>	TIPS INVESTMENT SIZE (MEUR)	<b>1,58</b>	OBSERVED TCO <sub>2</sub> /PER YEAR EMISSION SAVINGS	<b>319,79</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>





## AB PANEVĖŽIO STIKLAS

AB Panevėžio stiklas is the largest producer of clear glassware products in Lithuania and very important player in circular economy promotion, as it uses recycled glass debris in its production. By recycling glass debris, the energy is conserved, as recycled glass requires less energy to melt and shape into new products, landfill waste is reduced not requiring thousand years to decompose, and natural resources that would be taken for new glass production are saved. However even the recycled glass manufacturing process is energy intensive and emits greenhouse gases. So, in order to reduce carbon dioxide emissions and help mitigate climate change, funds for developing solar plants were provided. The project is planned to install a 782,06 kW solar power plant.

TYPE OF INVESTMENT

**SENIOR DEBT**

TOTAL PROJECT SIZE (MEUR)

**0,56**

MATURITY

**3 YEARS**

FINANCIAL CLOSE

**2022-07-01**

TIPS INVESTMENT SIZE (MEUR)

**0,45**

OBSERVED TCO<sub>2</sub>/PER YEAR EMISSION SAVINGS

**114,38**

ESTIMATED PERCENT YEAR EMISSION SAVINGS

**100**





# UAB MANO SAULĖ

UAB "Mano saulė" is developing two separate solar power plants:

Jurgeliškė II is the second phase of the Jurgeliškė project being developed in Švenčionys District. The 99.99 kW solar park is designed next to an existing solar park. The contracting works for the construction of the solar park have already been completed. The park is waiting to be connected to the electricity grid. The solar park is scheduled to be handed over to customers in September 2022. The solar park will provide energy to 14 prosumers.

Another park being developed by Mano saulė UAB is Minkeliai, located in Vilnius district. The park will have a capacity of 499.95 kW and is scheduled to start operation in April-May 2023. Contracts have already been signed with 77 prosumers.

The Jurgeliškių and Minkeliai solar parks will produce green energy for 30 years. In the first year of operation, it is expected that one kW of installed solar power plant will produce on average about 1054 kWh of electricity.

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>0,53</b>	MATURITY	<b>2 YEARS</b>
FINANCIAL CLOSE	<b>2022-08-19</b>	TIPS INVESTMENT SIZE (MEUR)	<b>0,4</b>	ESTIMATED TC02/PER YEAR EMISSION SAVINGS	<b>91,17</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>





## UAB MEGAPRAKAS

The capacity of the modules installed in the Nemajūnai solar park in Nemajūnai village, Lazdijai municipality, will be 999.54 kW. The second project of the developer Megaparkas is the South Lithuania Solar Park, located in Panarvės k., Lazdijai r. municipality, where the installed capacity of solar modules is 2999.7 kW.

It is estimated that in the first year of operation, one kW of installed solar power plant will produce on average about 1070 kWh of electricity. The solar parks are tentatively scheduled to start operation in December 2022. The solar parks will benefit 776 customers.

All the solar parks use solar modules with technology that ensures energy generation from both the front and the back of the module. This technology will result in a 5% to 15% increase in electricity generation.

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>3,2</b>	MATURITY	<b>1 YEAR</b>
FINANCIAL CLOSE	<b>2022-08-23</b>	TIPS INVESTMENT SIZE (MEUR)	<b>0,5</b>	ESTIMATED TCO2/PER YEAR EMISSION SAVINGS	<b>514,08</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>



## VŠĮ „LIETUVOS REABILITACIJOS IR SLAUGOS CENTRAS“

The Lithuanian Rehabilitation and Nursing Center is a non-profit institution providing long-term social care services for elderly and adults with disabilities since 2014. The center, located in Jonava district, operates as a social care home, providing accommodation, meals, household and personal hygiene, social work, health care, leisure and employment services. Around 260 residents and more than 80 employees of the center are enjoying improved living conditions after energy efficiency measures were installed.

Before the project, the rehabilitation center used natural gas for energy production and gas-fired boilers for heating. The price of natural gas is not constant and was increasing rapidly during the heating season, so the choice was made to replace gas with a renewable energy source and install a biofuel boiler. A loan of €220 000 was issued for the project.

The energy efficiency measures installed bring financial benefits and create comfortable living conditions for the inhabitants of the center. This project is not only important in terms of climate change mitigation or energy efficiency objectives, but also contributes to the improvement of social infrastructure.

Heating is supplied to the buildings of the center through underground pipelines installed in 1986. 415 MWh of energy was lost every year due to the deterioration of the pipelines. The modernization of the heat supply network minimizes energy losses. Replacing polluting gas boilers with a renewable energy biofuel boiler and replacing inefficient trunk pipelines reduced greenhouse gas emissions by 352 tons of CO<sub>2</sub> equivalent per year.

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>0,28</b>	MATURITY	<b>7 YEARS</b>
FINANCIAL CLOSE	<b>2022-08-18</b>	TIPS INVESTMENT SIZE (MEUR)	<b>0,22</b>	ESTIMATED TC02/PER YEAR EMISSION SAVINGS	<b>352</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>





## UAB BEVIELĖS TECHNOLOGIJOS

UAB "Bevielės technologijos" is developing two separate remote solar power plants:

- 1500 kW capacity - Kruonis solar park.
- 2600 kW capacity - Kukliai solar park.

By providing funds to Bevielės Technologijos for development of two remote solar parks of total 4,1 MW, twenty three municipalities owned schools and kindergartens and a University got the possibilities to use clean renewable energy and so to add to sustainable future. Also by this project green energy production was made available to several tens of household prosumers, allowing to reduce carbon emissions, save costs and create a more sustainable electricity generation

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>2,87</b>	MATURITY	<b>1 YEAR</b>
FINANCIAL CLOSE	<b>2022-11-22</b>	TIPS INVESTMENT SIZE (MEUR)	<b>1,35</b>	ESTIMATED TC02./PER YEAR EMISSION SAVINGS	<b>589,87</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>



# UAB VENTEOS

Kaunas Region Municipality's existing public lighting is one of the biggest consumers in Municipalities electricity bills. Therefore Municipality prioritized upgrading it's street lighting in order to reduce it's energy consumption and CO2 emissions as well as to save costs for public budget. PPP Agreement was signed between Venteos and Municipality with the main purpose of this PPP Agreement to ensure quality street lighting on the streets of Municipality (including public spaces) by increasing energy efficiency of lighting system and to improve current lighting system technical status, by implementing modern and efficient lighting and lighting control systems. By this agreement, 10 204 units of LED luminaries in more than 90 locations in Kaunas region will be modernized, allowing each year to decrease annual electricity consumption for modernized public lighting from 3 777 200 kWh to 941 079 kWh.

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>3,74</b>	MATURITY	<b>10 YEARS</b>
FINANCIAL CLOSE	<b>2022-12-28</b>	TIPS INVESTMENT SIZE (MEUR)	<b>2,96</b>	ESTIMATED TC02/PER YEAR EMISSION SAVINGS	<b>425,42</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>75,1</b>





# UAB LATORA

UAB Latora develops 200 kW solar power plant. It is planning to rent solar plant for prosumers. Preliminary contracts have been signed by remote prosumers.

Planned investment to the project is 251 600 EUR w/o VAT. The park will be built in Vilnius district on the land of UAB Latora.

Construction of solar power park has not been started yet. Legal permit to construct solar power plant has been issued on 9th of May 2023. The plan is to start construction in July 2023.

Project of solar power park will achieve ~13,455 tCO<sub>2</sub>e/MWh CO<sub>2</sub> savings. Client is planning to use high standard ViaSolis Bifacial PRIME 545 Glass/Glass modules. Modules are produced in Lithuania by LLC Viasolis. PV systems not only provide companies with low cost energy but also reduce the global greenhouse gas emissions.

TYPE OF INVESTMENT	<b>SENIOR DEBT</b>	TOTAL PROJECT SIZE (MEUR)	<b>0,25</b>	MATURITY	<b>8 YEARS</b>
FINANCIAL CLOSE	<b>2022-12-30</b>	TIPS INVESTMENT SIZE (MEUR)	<b>0,2</b>	ESTIMATED TC02/PER YEAR EMISSION SAVINGS	<b>14,13</b>
				ESTIMATED PERCENT YEAR EMISSION SAVINGS	<b>100</b>

# FIGURES



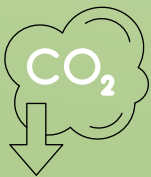
## DISTRICT OF LITHUANIA

VILNIUS REGION

17%

LAZDIJAI,  
KAUNAS,  
PANEVĖŽYS,  
KAIŠIADORIAI  
AND JONAVA REGIONS

83%



## TOTAL CAPACITY WILL BE INSTALLED, CO2 SAVINGS

**13,03** MW/YEAR

**1112,50**

OBSERVED TC02/PER YEAR EMISSION SAVINGS

**1986,67**

ESTIMATED TC02/PER YEAR EMISSION SAVINGS



## PROJECT TYPES

ENERGY EFFICIENCY

20%

80%

SOLAR POWER PLANTS



# S&E ASSESSMENT

## A

**PROCEED WITH INVESTMENT FROM S&E ANGLE**

### **ALL FINANCED PROJECTS MET S&E REQUIREMENTS:**

Customers have chosen suppliers in projects that strictly comply with the environmental requirements for the equipment to ensure that the manufacturing processes comply with EU regulations, solar modules producers with the highest sustainability standards, equipment with EU compliance certificates. Most of the projects uses environmentally friendly or easily recyclable materials - solar modules - which will be transferred to waste management companies for recycling. Some of the equipment used in the projects is manufactured in Lithuania. Together with our clients, we aim to ensure the highest possible level of order in the implementation of projects. Clients ensure waste management during the project implementation period and safe disposal of solar modules during the project time and after the end of batteries life.

No violations of labor law have been detected, strict compliance with the applicable legislation of the Republic of Lithuania, regulations and internal rules of procedure. There were no no accidents, no cases of bribery.

## B

**ADDITIONAL REQUIREMENTS;  
CORRECTIVE MEASURES**

N/A

## C

**NOT ACCEPTABLE  
INITIALLY**

N/A

## D

**NOT ACCEPTABLE  
AT ALL**

N/A