

**Interreg**

CENTRAL EUROPE



European Union  
European Regional  
Development Fund

**PROSPECT2030**

TAKING  
**COOPERATION**  
FORWARD



PPL

MS Teams | 4.02.2021



## Virtual Power Plant in Wawer District



PROSPECT2030 | Mazovia Energy Agency | Krzysztof Płuciennik

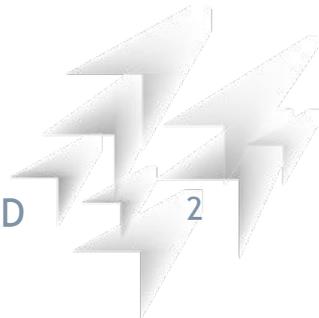
# PLAN OF THE PRESENTATION

Background  
and main  
objectives

Implementatio  
n of the energy  
metering

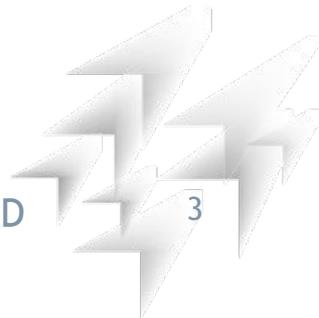
Our Virtual  
Power Plant  
now

Implementatio  
n of the energy  
management



# BACKGROUND AND MAIN OBJECTIVES

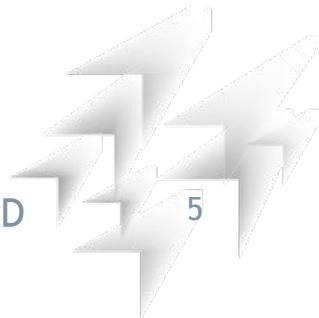
## Warsaw, Mazovian Voivodeship



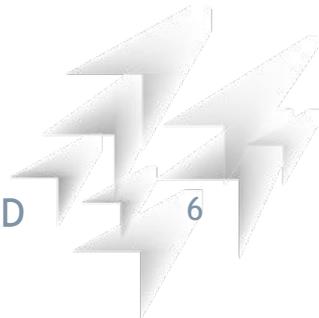
- There is 2,68 GWp of power installed in sun-powered energy sources in Poland. In the next 10 years it is possible, that this number will be doubled.
- In the last 5 years, there was a 10 TWh growth in RES production.
- Vast majority of domestic energy production made by photovoltaic panels are not measured or managed.



- Market analysis of suppliers of energy monitoring solutions.
- **Smart metering system** and virtual power plant in Wawer district - pilot.
- License to expand and create new systems like VPP in Wawer district.
- Energy production and consumption database.
- **Energy management.**
- Replicability.



- Carrying out the pilot of the electricity monitoring system for the local-government selected facilities.
- Developing standards and schemes.
- Creating Mazovian Centre Of Energy Management (MCZE) as an organizational structure within the Mazovia Energy Agency.
- Support for solutions to improve energy efficiency based on RES.



## Progress of the project:

- Mazovia Energy Agency has conducted a market analysis of suppliers of energy monitoring solutions.
- In March this year there will be conducted a pilot of the energy monitoring system in the Wawer district.
- After pilot we will have a license to provide services within the VPP in Mazovia.
- Our platform is a repository of energy data, as well as a system which operates so-called ViridisCoin.
- We're looking into integrating energy storage solutions into VPP.
- We are organising a promotion and educational meetings about VPP in Wawer and green energy.





Miernik

## System pomiarowy

Home / Ekran miernika

Export

Filtry

Napięcie

**226 V 65HZ**  
**12 A**



Bieżąca moc

**800 W**

Historia mocy



Łącznie VIRIDISCOIN

**12,897 VC**

Ostatni miesiąc ▼ 1.44%



Łączna produkcja

**12 897 kW**

Poprzedni miesiąc ▼ 0.43%



### Ogólny podgląd efektywności

Porównanie produkcji energii w poszczególnych miesiącach.

Rok



### Wartość bloku

Wartość monety VIRIDS w oparciu o blok.



Wpłaty

**1 000 020 zł**

▲ 54% poprzedni miesiąc



Sprzedaż

**1,24 zł**

▼ 33% poprzedni miesiąc

### Łączna produkcja

Procentowa wartość za dany miesiąc.

**12 897 kW**

Ten miesiąc 32%

Poprzedni miesiąc 50%

### Tabela komunikacji

Komunikacja licznika z serwerem[=

<https://www.viridiscoin.com/>



TAKING COOPERATION FORWARD

- The tele-technical and IoT systems in energy management.
- Electricity monitoring system and energy management solutions can be offered within MCZE.
- MCZE will be able to offer an energy balancing service for local-government units.
- The energy management system will bring not only tangible economic benefits but also improve energy efficiency.



Thank you for your attention.

<https://mae.com.pl/>

