

# BEST PRACTICE IN POLAND – ENERGY EFFICIENT CITIES

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## BASIC INFORMATION

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### **Title of the Best Practice**

Ekowawer 100 kWp solar power plant supporting a system of heat pumps producing heat and cold for own purposes of storage and office halls

**Energy efficiency measures implemented in the building:** use of RES - installed PV panels

### **Location:**

**City:** Warsaw

**Region:** Mazovia Region

**Country:** Poland

### **GoogleMaps link**

<https://www.google.pl/maps/place/Plastoma/@52.1941335,21.1401492,20.39z/data=!4m5!3m4!1s0x471ed2e6548b7d4b:0x9114dc9c62c53fad!8m2!3d52.1941867!4d21.1403544>

<https://www.google.pl/maps/place/Kol-Dental+Sp.+z+o.o.+Sp.k./@52.1942996,21.140672,17.31z/data=!4m5!3m4!1s0x471ed2e6e572ed35:0x4d3ed8dd5a53d9d7!8m2!3d52.194321!4d21.142487>

### **Partner involved:**

- Plastoma Michał Żydek  
Cylichowska 13/15 Street, 04-769 Warsaw  
Role in the action: The Project Organizer (Representative)

**Implementation year:** 2012-2013

**Photo:**



*Source: Plastoma Michał Żydek*

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## SYSTEM CHARACTERISTICS

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### **Brief Description:**

The objective of the project is the installation of PLASTOMA 100 kWp Photovoltaic System in Warsaw. The purpose this system is to produce electricity from renewable energy sources in order to reduce the operating costs of PLASTOMA storage building. The installation consists of 250 Wp photovoltaic modules.

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## FINANCIAL SOURCES AND FINANCING DETAILS

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**Total investment value:** 326 620 EUR

**Sources of financing:** internal funds, commercial banks

**Electricity savings (MWh/year):** 90,00956 MWh/year

**Or fuel savings (kg or m3 or kWh or GJ):** -

**Cost savings:** 8 400,69 EUR

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## PROJECT IMPLEMENTATION BENEFITS

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Increasing energy efficiency

Reduction of emissions, respectively:

CO<sub>2</sub> – 90032,30 kg/year

SO<sub>2</sub> – 69,57 kg/year

NO<sub>2</sub> – 18402,68 kg/year

CO – 204,62 kg/year

Dust – 245,54 kg/year

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## ADDITIONAL INFORMATION

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System efficiency is 37%, so the volume of limited energy was determined at 243 269,08 kWh/year.