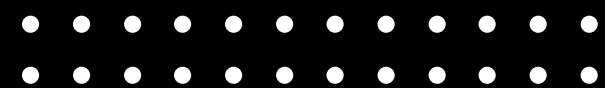


Nova Odesa city
territorial community

INSTALLATION OF A SOLAR POWER PLANT IN THE CITY OF NOVA ODESA

Total power: 500kW



1. GENERAL INFORMATION ABOUT THE PROJECT

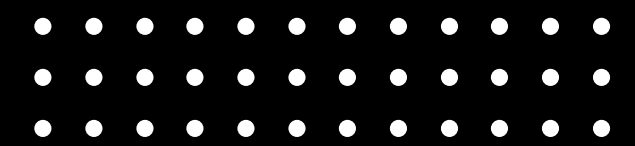
**Title: Construction of a Solar
Power Plant (SPP) at the Main
Water Intake Facility**

**Location: Nova Odesa, 22
Dachna Street**

Capacity: 500 kW

**Client: Nova Odesa City
Territorial Community**



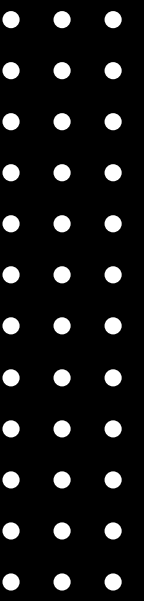


2. PROJECT GOALS

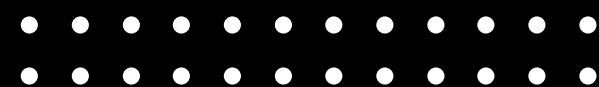
- Ensure energy independence of the water intake facility
 - Reduce electricity costs
- Enhance environmental sustainability and reduce CO₂ emissions
- Provide stable water supply during emergencies

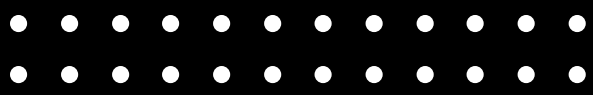


3. RELEVANCE OF IMPLEMENTATION

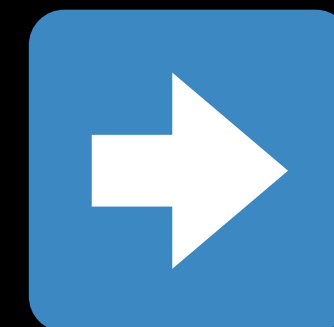


- Frequent power outages
- High cost of energy resources
- The water intake supplies drinking water to thousands of residents
- Need for an autonomous and backup power source





TECHNICAL SPECIFICATIONS OF THE SPP





- Capacity: 500 kW
- System type: Ground-mounted, fixed structure
 - Estimated area: up to 1 hectare
- Number of panels: ~1,100 units (450–500 W each)
- Inverters: Three-phase with monitoring system
 - Recommended battery storage:
 - Capacity: 500–800 kWh
 - Inverter power: 100–200 kW
 - Type: Lithium iron phosphate (LiFePO_4)
- Intermediary energy transfer: Use of buffer batteries for energy balancing during peak consumption hours
- Technical conditions: To be obtained by the client from Mykolaivoblenergo in accordance with the current procedure for grid connection



5. EXPECTED RESULTS

- Up to 100% electricity coverage of the water intake needs during sunny periods
- Annual savings of up to UAH 3 million
 - Reduction of CO₂ emissions
- Contribution to the community's green transformation
- Backup power supply during outages or emergencies



6. ESTIMATED PROJECT BUDGET

Category
Estimated Cost (UAH)

Design & planning
500,000 – 700,000

Equipment
8,000,000 – 9,500,000

Installation & commissioning
1,500,000 – 2,000,000

Monitoring & control systems
200,000

Battery storage (500–800 kWh)
6,000,000 – 12,000,000


Other (security, landscaping)
300,000 – 400,000

Total
UAH 16 – 24 million



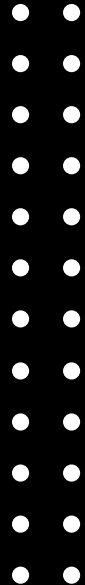
7. FUNDING SOURCES



-  State energy efficiency programs
- International donors (EU4Energy, GIZ, NEFCO, E5P)
 - Local budget / co-financing
 - Green loans from banks



8. IMPLEMENTATION TIMELINE

- Preparation, documentation, tenders — up to 8 months
 - Installation and commissioning — up to 7 months
 - Total duration: ~15 months
- 

9. Contacts

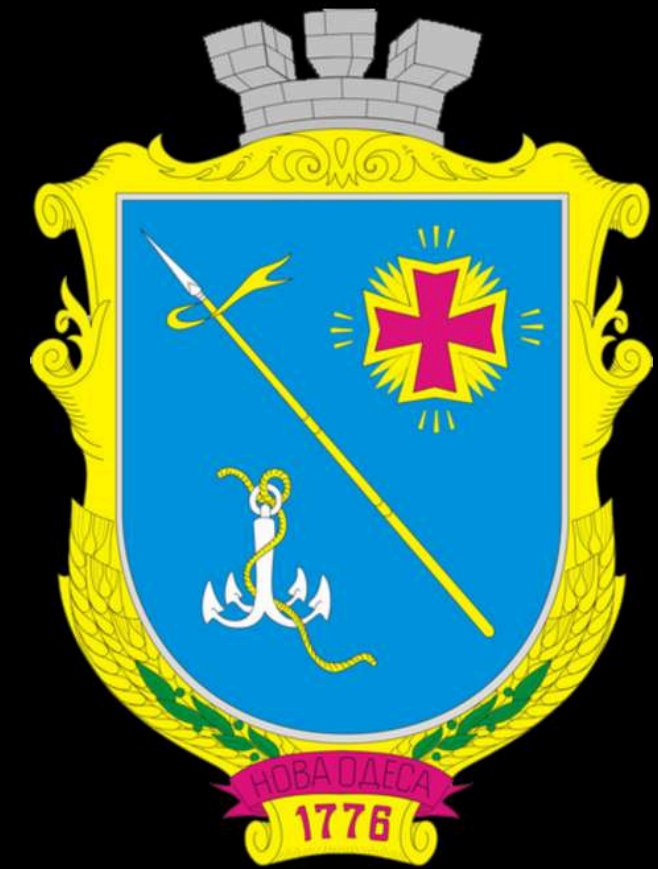
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**Committed to building strong and
effective cooperation!**