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PROSPECT2030

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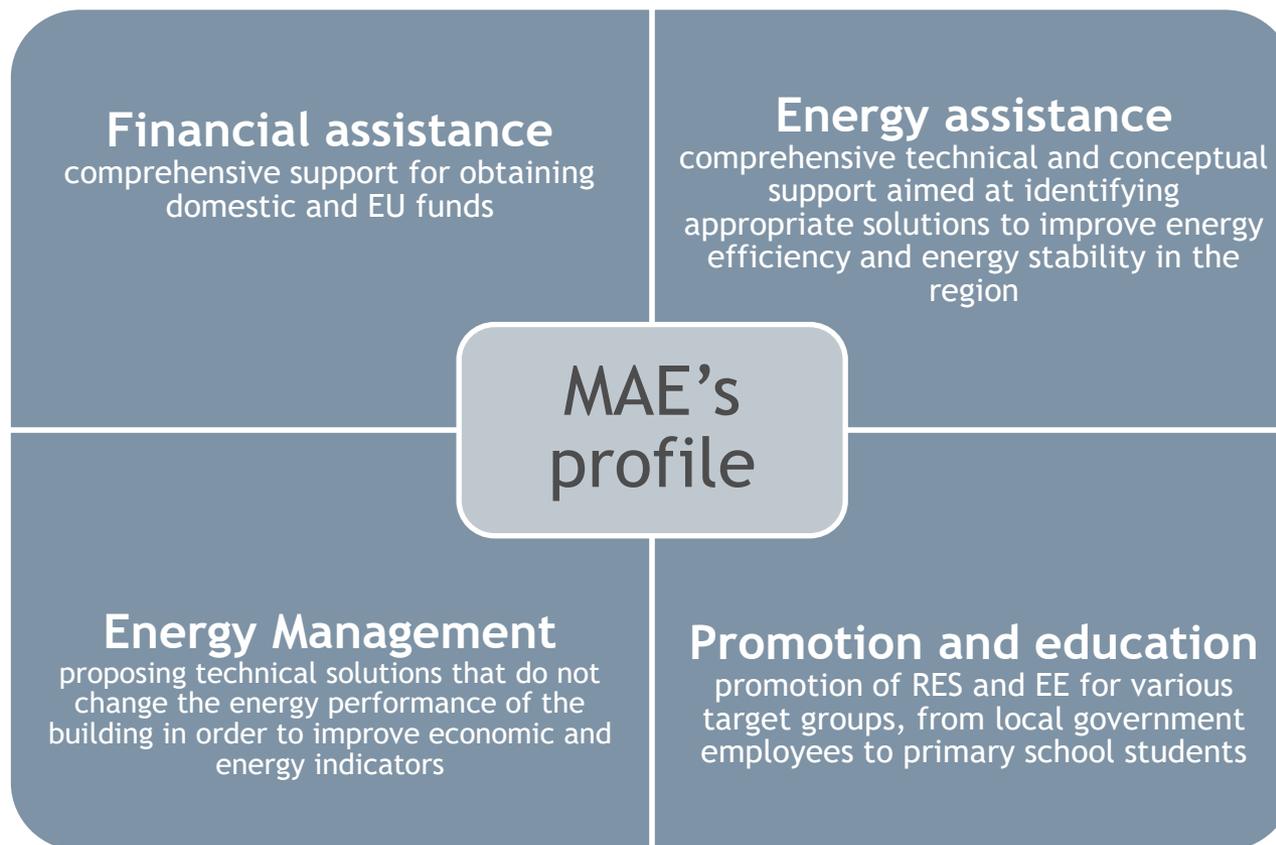
Peer to peer learning session
webinar | 15 December 2020



**Financial and technical support to Municipalities
regarding RES and EE project development**



PROSPECT2030 | MAE | Mateusz Kruk



MAE, in addition to the previously indicated elements, supports municipalities and SMEs, from energy analysis to implementation of a substantive project. As part of comprehensive cooperation, the following stages can be listed:

1. **Energy analysis** - development of an energy audit / local vision, which is the basis for further projects. At this stage, solutions improving energy efficiency are proposed. In the case of a wider scope of the undertaking, covering, for example, the entire municipality, we propose the development of strategic documents, i.e. the Low-Emission Economy Plan, aimed at introducing solutions throughout the municipality.



2. Financial consulting - On the basis of the first stage, optimal variants with the best energy and financial efficiency are presented. MAE presents to municipalities and SMEs the possibilities of financing the project. The entity selects the financing mechanism indicated by the MAE and in cooperation with it, MAE prepares all application documentation, in which it develops an economic analysis, an analysis of the institutional preparation of the entity and an extensive project implementation schedule. If the call for proposals requires it, documentation is prepared which constitutes the Description of the Subject of the Contract (technical documentation) in an open tender. MAE acts as the representative of the municipality during the recruitment process until funding is obtained.



3. Consulting in public procurement - After successfully obtaining financing, technical documentation is prepared (if the client wishes to design at the tender stage) or a description of the subject of the contract, which is the Functional and Utility Program, developed especially in projects that take place on the throughout the municipality, in the "Design and build" mode. MAE prepares complete tender documentation and oversees the technical aspects at the time of the tender award. The task of MAE is to indicate which devices or technologies are appropriate for implementation (especially in RES projects) and are compatible with the subject of the contract.



4. Technical supervision - As part of comprehensive consultancy, after selecting the Contractor, in the next step, in order to achieve the best possible implementation, MAE may be selected in a tender to act as investor's supervision over the project. As part of this supervision, it will be responsible for the implementation of the project, from the detailed design to the final acceptance of works. MAE has qualified supervision inspectors in all industries related to EE and renewable energy (inspectors of the industry: general construction, sanitary, electricity)



5. Promotional and educational activities - The last element, often falling within the scope of projects increasing EE and using RES, are promotional and educational activities. As part of these activities, MAE organizes meetings with residents of municipalities and school students, conducts campaigns in the local press and prepares promotional materials in order to disseminate the project as widely as possible.



6. Project finalization - All the mentioned activities are concluded at the time of financial and energy settlement of the project. As part of these activities, MAE provides substantive support in order to obtain reimbursement of costs incurred in the project, as well as prepares documentation indicated by the operator of the mechanism confirming the achievement of the energy effect (most often it is an ex-post energy audit). In addition to the final settlement, MAE supports municipalities in obtaining partial payments in tranches.



MAE's competences allow for obtaining subsidies for all kinds of entities for improving the energy efficiency of buildings or for modernization of buildings.

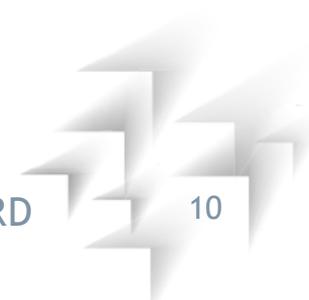
Most often, our expertise in this area is directed to:

- Municipalities;
- SMEs;
- Medical entities;
- Schools;
- Churches/Sanctuaries.



Financial mechanisms used by MAE:

- ❑ Regional Operational Program of the Mazovian Voivodeship for:
 - ❑ Municipalities (thermal modernization of public buildings, thermal modernization of private buildings, replacement of heating devices, revitalization of public facilities, installation of renewable energy devices in public and private buildings) - up to 80% co-financing of eligible costs
 - ❑ Poviats (thermal modernization of public buildings, including installation of renewable energy sources) - up to 80% co-financing of eligible costs
 - ❑ Public entities, i.e. hospitals, church legal entities, museums (thermomodernization of buildings with installation of renewable energy sources) - up to 80% co-financing of eligible costs



- ❑ NFOŚiGW (National Fund for Environmental Protection and Water Management) for:
 - ❑ Municipalities (modernization of public lighting - loan of 100% of eligible costs)
 - ❑ Church legal entities, museums, hospitals, cultural buildings (thermal modernization of buildings with the installation of renewable energy sources and building management system) - up to 95% co-financing of eligible costs
- ❑ WFOŚiGW (Provincial Fund for Environmental Protection and Water Management) for:
 - ❑ Municipalities (modernization of buildings of the Voluntary Fire Brigades) - up to 90% of the eligible costs
- ❑ Norwegian Funds and the European Economic Area Financial Mechanism for:
 - ❑ Municipalities (thermal modernization of public buildings together with educational activities and exchange of experiences between Partners (PL / NOR))
- ❑ PFRON for:
 - ❑ Medical Centers (construction of elevators and related construction works) - up to 30% of eligible costs



Proposed and applied measures to improve the technical condition of the buildings:

1. Energy audit / Energy performance - presentation of possibilities and conditions in order to introduce improvements, e.g. modernization of a heat source.

2. Functional and Utility Program - presentation of the general principles of project implementation (indication the method of carrying out the action along with parameters of materials, devices required for the Implementation:

- e.g. modernization of the central heating system by replacing an ineffective boiler with a gas boiler with LPG -> indication of minimum parameters such as rated power, efficiency, heating power at given temperature settings, energy class, gas tank capacity and its location in the field.



3. Construction / detailed design - a full design with the complete specifics of the project, along with full drawing documentation showing how to install the device or perform thermal modernization activities:
 - > e.g. heat source replacement project with selected fittings, devices (attached catalog cards) as well as a site plan and conceptual drawings.

4. Bill of quantities - usually attached to the construction / detailed design, a list of works that must be performed as part of the project, along with the presented values and the method of their calculation:
 - > e.g. installation of pipelines made of polyethylene pipes with a nominal diameter of 32 mm.

5. Investor cost estimate for construction works - a calculation of the costs of the implementation of the project specified in the construction / detailed design, prepared on the basis of the bill of quantities, broken down into the cost of labor and use of the fixed asset.



Methods of financing energy modernization of buildings:

- ❑ Subsidies from national funds (RPO WM, NFOŚiGW, WFOŚiGW);
- ❑ Loan from domestic funds (NFOŚiGW, WFOŚiGW);
- ❑ Energy loan (Mazovian Loan Fund);
- ❑ Thermomodernization bonus (Bank Gospodarstwa Krajowego and other commercial banks);
- ❑ EPC;
- ❑ Public-Private Partnership (PPP).





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