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# BACKGROUND INFORMATION

## Partner country

Republic of North Macedonia

## Contracting authority

Municipality of Resen

Square Car Samoil no.20

7310 Resen

## Country background

The cross-border cooperation programme Greece – North Macedonia supports regional cooperation between Greece and North Macedonia. The Programme's overall objective is to enhance territorial cohesion by improving living standards and employment opportunities holding respect to the environment and by using the natural resources for the upgrading of the tourism products.

The project „Integration of Green Transport in Cities - Green Inter-e-Mobility “ is supported by the cross-border programme “Interreg IPA Cross-border Cooperation Programme Greece- Republic of North Macedonia 2014-2020".

EE is a key priority within the EU Strategy, and this translates into common EU policies for the Member States, including those addressing energy-efficiency. To accelerate the achievement of strategic targets, an integrated approach is needed with coordination between EU/national/regional/local energy policies.

Replacing the current transport modes with more energy-efficient ones, within a regional intelligent transportation system, will support the efficient realization of both the tourist promotion of the area, the sportsmen and student’s daily transportation. The new system will also promote the environmental conservation of the area and the protection of its natural beauty. Moreover, due to the heavy winter periods, residents in this region, and especially elderly, disabled, distant-residents, face great difficulties in their daily transport. This project faces this challenge and facilitates residents in these Municipalities (MUNIs) with the on-demand use of utility electric vehicles (e-vehicles). Furthermore, the solar availability in the region, which is indicated for high performance of energy supply through photovoltaic (PV) panels, could be exploited for replacing the conventional energy used by current transport, with renewable energy. The project is compatible with the broad EU energy policy context such as Climate-Energy packages, Energy Union and decarbonisation of transport, since it creates synergies between Renewable Energy Sources and transport users.

## Current situation in the sector

The overall project’s objective is to design and apply an energy-efficient, regional intelligent transportation system with innovative solar-energy charging-stations for e-vehicles in all four Municipalities.

The main project outputs include the promotion of the environmental conservation of the area (through an integrated solution for reducing the carbon footprint of road facilities and transport) and the protection of its natural beauty, the enhancement of the tourist stream towards the cross-border area and of the cross-border cultural and sports relations, through the establishment of the transnational Bitola-Florina tourist route, and the facilitation of sportsmen and students in their daily transport and residents (elderly, disabled, distant-residents) in their daily on-demand transport in all four Municipalities, while the optimal route scheduling and realization of their transport by e-vehicles will greatly decrease their transportation expenses through a 20-year horizon.

Through the Cross-Border approach, including the partner’s cooperation during the development and operation phases, the Municipalities will benefit by the mutual exchange of know-how and experiences among the cross-border actors and end-users of the e-vehicles. Moreover, the public, through the partners’ joint awareness initiatives for green mobility, and by making use of this new innovative technology, will come closer to environmental actions and ideas. Also, the establishment of the cross-border electric minibus route between Florina and Bitola will be combined with other sport and tourist activities and strengthen the relations between the two countries’ population.

The project’s added value is the environmental conservation of the cross-border area, the region’s touristic promotion through transnational actions, the enhancement of the cross-border relations and the facilitation of the area’s residents in their daily transport, through the use of innovative technologies towards green transportation.

With this project Municipality of Resen will influence in development of the infrastructure for using solar energy for charging e- vehicles, also with promotional activities and the pilot installations there will be development of the market for e vehicles and solar charging stations

Policy uptake and community engagement. The direct involvement of partners in the project who have a multiplier role will ensure wide dissemination-awareness raising of the relevant target groups.

## Related programmes and other donor activities

There is a strong background in the cooperation between all the partners, since they have all signed Memorandum of Understanding during previous projects. Therefore, the Green Inter-e-mobility project is the implementation of their commitment to cooperate and apply synergetic actions.. Also there is existing experience of successful cooperation between all the partners in the energy efficiency and transportation fields. The region offer a great number of touristic attractions and therefore, an intelligent network of electric mini-buses will bring added-value to these attractions. Additionally, the cross-border interconnection of these touristic sites will be enhanced by a regular cross-border route of a “touristic electric mini-bus”. Such an electric mini-bus interconnection can facilitate tourists sportsmen and the local population to identify many common characteristics between the two regions.

The Green Inter-e-mobility project directly addresses the topics of the Work programme “10. Secure, Clean and Efficient Energy”. More specifically, the project is compatible with the broad EU and national energy policy context such as Climate-Energy packages and it contributes to the following expected impacts:

• The EU power network will be capable of integrating large share of renewable exceeding 50% by 2030, in particular variable energy sources.

• Creation of synergies with transport users (e.g. services to the grid with smart charging) / support the decarbonisation of transport.

Additionally, the project contributes to the regional and local strategy on efficient transport of students, public servants and disabled people.

A number of donors have supported environmental and energy sector in relation to improvement of the Energy Efficiency and reduction of GHG emissions by the donors, including the EU, World Bank Group, the Swiss Agency for Development and Cooperation and the UNDP.

# OBJECTIVE, PURPOSE & EXPECTED RESULTS

## Overall objective

The overall objective of the project of which this contract will be a part is as follows:

The main project's objective is to design and apply an energy-efficient, regional intelligent transportation system-ITS which will support the efficient realization of both the tourist promotion of the cross-border area, the student’s daily transport and the facilitation of residents in their daily transport. Specific objectives are:

(a)The added value of the area's touristic sites through the e-minibuses routes.

(b)The enhancement of the cross-border cultural relations through the route connecting Bitola-Florina.

(c)An optimal route scheduling in coordination with the design & implementation of PV charging stations for minibuses.-Programme’s object. : Improving cross-border road access & mobility with targeted interventions of small scale infrastructure

(d)The realization of the ITS that will facilitate both tourists, residents’ (elderly, disabled, distant-residents) and students’ daily transportation. Especially for accessibility of disabled people, a utility e-vehicle and a relative smart phone application is predicted.-Progr.obj. : ICT systems & equipment to improve check point services & facilities

(e)The decarbonisation of transport and the support to the electricity grid.-Progr.obj.: Integrated solutions for reducing the carbon footprint of road facilities & transport in cross-border area

(f)Cooperation between partners during the optimal route studies, development & operation phases.

(g)Public awareness about the integration of e-vehicles fuelled by the sun in cities, and communication & dissemination of the project results to national, regional & local authorities to promote green transport.-Progr.obj.: Small scale investments in energy efficiency, in check point facilities & public buildings of cross-border area, including joint awareness initiatives for energy efficiency

## Purpose

The purpose of this contract is as follows:

Municipality of Resen as a contracting authority has to conclude an Contract for services with selected contractor for supervising construction works for construction of PV charging station for electrical vehicles for Resen Municipality.

Construction works consist of following:

* Electrical installations – construction (installation of aluminum profiles , installation of monocrystal photovoltaic panels with power of 330W)
* Electrical installations – inverters and distribution cabinets (installation of three-phase Grid Connected inverter, DC distribution cabinet, AC distribution cabinet, Device for reading the values of the inverter (monitoring system)- DATA LOGGER, installation of a charging station for electrical cars)
* Electrical installations – solar and installation conductor (mounting conductors, mounting single core cable type and similar)
* Other electrical equipment

The purpose of this contract is to secure supervision on quality and proper installation and execution of construction and electrical installations (listed above), which are contracted with other contractor as executor of construction works (according to approved Main Design prepared by KMG EOL KVAZAR DOOEL, SKOPJE with technical number 09-337/2, December 2020 year. (<http://resen.gov.mk/nvitation-to-tender-for-construction-of-photovoltaic-charging-station-for-the-electric-vehicles-for-resen-municipality/>).

The main task of selected contractor under this call for tenders will be:

* supervision on supplied equipment
* supervision on electrical installations and charging station
* supervising the test period of installed PV system

All services should be implemented and recorded in accordance with national legislation for construction electrical installation (Building Law and other legislation governing the field of interest).

## Results to be achieved by the contractor

The contractor should achieve following results:

- Supervised on construction works and electrical installations,

- Supervising the implementation of national legislation governing the field of interest).

- Prepared and approved all needed documents for supervision, regulated with national law.

- Regular communication and cooperation with executor of works and Municipality of Resen

- All other works (in frame of the contract) which will arise during the contract implementation.

# ASSUMPTIONS & RISKS

## Assumptions underlying the project

• Good cooperation between all parties involved in the project

• Constant and timely support from the Project team;

## Risks

• Low level of communication among the project stakeholders

• Failure to comply with the respective deadlines for completion and launching of the tender procedures;

# SCOPE OF THE WORK

## General

### Description of the assignment

Municipality of Resen in the frame of the project intends to hire contractor for implementation of services for supervision on electrical and construction works in accordance with the Law on construction and other positive national legislation.

The contractor should be obligated to supervise quality of supplied equipment and materials and proper installation of electrical equipment (charging station, inverters, cannels and similar).

All services under this contract should be implemented in accordance with positive national legislation.

The Contractor should secure availability of key experts and personnel as well as site supervision of the works.

Contractor should have regular communication with contracting authority (municipality of Resen and the selected contractor – executor of civil works.

All communication with contracting authority and contractor- executor of construction work should be in written (using mail and post services for distribution of the material).

### Geographical area to be covered

Republic of North Macedonia, Municipality of Resen

### Target groups

Local population, small tourism businesses, local authorities, domestic and foreign tourists, visitors and guests.

## Specific work

Under the direct supervision of the project coordinator and in cooperation with the Municipality of Resen staff (Sector for urbanism, communal affairs, local economic development and cross border cooperation and other project experts) the contractor will be responsible to carry out the following activities:

1. **To put into operation the contractor - selected executor of construction works**

According to national law, the selected supervisor should undertake all needed actions to put into operation the contractor - selected executor of construction works. With this action the construction works will be considered started.

1. **To secure site availability of key experts and personnel**

The assigned key experts should be available on the site during the period of execution of the contract. The main tasks of the experts should be supervising the quality, standards , and proper electrical installations.

1. **To record clear and on-time evidence during the contract implementation**

The records and all evidence should be prepared, recorded and distributed to contractor - selected executor of construction works and contracting authority, in accordance with positive national legislation.

1. **To issue a document for Quality performance and closing remarks**

On the end of the execution of construction works, the supervisor have to issues a document as a prove of Quality performance and if there are same closing remarks. The supervisor has to confirm that all works are implemented according to approved Main Design for the works.

## Project management

### Responsible body

The Contracting Authority for the contract is Municipality of Resen

### Management structure

The Contracting Authority is unit of local self-government. Its competences are implemented in line with Local self-government law as well as other legislation. The Contracting Authority is consisting of decision makers and administration. There are two bodies of decision maker: Mayor and Council of Resen Municipality. Two bodies are elected, by the population, on local municipal elections, which are organized every four years. The Council of municipality is consisting of 15 members. One member is appointed as President of the municipal Council. The project ″Integration of Green Transport in Cities (Green Inter e- mobility) ″ is a partner project implemented by 6 (six) partners in Republic of Greece and Republic of North Macedonia, financed by INTERREG IPA Cross Border Programe Greece - R of North Macedonia 2014-2020. The Mayor of Resen municipality with Decision appointed project team which is obligated to implement all project activities. The Project team has 8(eight) members (one project manager and one financial manager). During the project implementation, all needed decisions shall be signed by the Mayor as authorized person for project implementation.

### Facilities to be provided by the contracting authority and/or other parties

The Contracting Authority will provide all available information and will fully co-operate with the contractor in order to achieve the best results. Technical information and access to the existing records, any useful information and/or documentation which may be relevant to the performance of the Contract will be provided upon request.

# LOGISTICS AND TIMING

## Location

Municipality of Resen , Republic of North Macedonia

## Start date & period of implementation of tasks

The intended start date is 30.09.2021 and the period of implementation of the contract will be 3(three) months from this date. Please see Articles 19.1 and 19.2 of the special conditions for the actual start date and period of implementation.

# REQUIREMENTS

## Staff

Note that civil servants and other staff of the public administration of the partner country, or of international/regional organisations based in the country, shall only be approved to work as experts if well justified. The justification should be submitted with the tender and shall include information on the added value the expert will bring as well as proof that the expert is seconded or on personal leave.

### Key experts

The scope of the work for this service requires a team of skilled professionals with previous experience in supervising of construction and electrical installations or similar projects. Tenderer is expected to have the ability to have a team of experts, so that the expected deliverable can be achieved in a quality and timely fashion. All team members shall possess excellent technical skills in order to successfully implement the assignment. The team of key experts shall respond to the requirements of the following key area of expertise. The team delivering the service should have included, as a minimum, the following profiles:

* + - 1. **Team leader / Supervising engineer – Electrical engineer:**
	+ At least Authorisation B for supervising engineer – **Electrical engineer**, issued by Chamber of Certified Architects and Certified Engineers.
	+ At least 3 years’ experience in the field of supervising electrical installations and works , with a complexity similar to this Contract
	+ Record of at least 1(one) relevant completed project connected with supervising electrical installations , electrical installations on commercial, private or public buildings or similar, with a complexity similar to this Contract

**Evidence to be provided**: CV, Diplomas, certificates, List of minimum 1(one) finished relevant project, including budget, contracts authority and implementation period.

1. **Supervising engineer – Civil engineer :**
	* At least Authorisation B for supervising engineer – civil engineer, issued by Chamber of Certified Architects and Certified Engineers.
	* At least 3 years’ experience in the field of supervising civil works, with a complexity similar to this Contract
	* Record of at least 1(one) relevant completed project connected with supervising civil works( construction/reconstruction of commercial, private or public buildings ) or similar, with a complexity similar to this Contract

**Evidence to be provided**: CV, Diplomas, certificates, List of minimum 1(one) finished relevant project, including budget, contracts authority and implementation period.

### Other experts, support staff & backstopping

CVs for experts other than the key experts should not be submitted in the tender but the tenderer will have to demonstrate in their offer that they have access to experts with the required profiles. The contractor shall select and hire other experts as required according to the needs. The selection procedures used by the contractor to select these other experts shall be transparent, and shall be based on pre-defined criteria, including professional qualifications, language skills and work experience.

The costs for backstopping and support staff, as needed, are considered to be included in the tenderer's financial offer.

## Office accommodation

Office accommodation for each expert working on the contract is to be provided by the contractor.

## Facilities to be provided by the contractor

N/A

## Equipment

**No** equipment is to be purchased on behalf of the contracting authority / partner country as part of this service contract or transferred to the contracting authority / partner country at the end of this contract. Any equipment related to this contract which is to be acquired by the partner country must be purchased by means of a separate supply tender procedure.

# REPORTS

## Reporting requirements

The contractor will submit the Final report in English in 1(one) original.

The final report must be provided along with the corresponding invoice.

## Submission and approval of reports

The report referred to above must be submitted to the project manager identified in the contract. The project manager is responsible for approving the reports.

# MONITORING AND EVALUATION

## Definition of indicators

All activities for monitoring and evaluation, which will be a part of this Contract will be realized according to the planned time and measures of progress towards expected results.

## Special requirements

The activities by the contractor must comply with the rules lay down in the Communication and Visibility Manual for EU External Actions published by the European Commission. <https://ec.europa.eu/international-partnerships/comm-visibility-requirements_en>