



Project co-financed by the European
Regional Development Fund



EnerNETMob project

*Mediterranean Interregional Electromobility Networks
for intermodal and interurban low carbon transport systems*

CALL FOR TENDERS

Technical expertise in electro mobility studies



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1. Customer

Competitiveness cluster Capenergies

2. Representatives of contracting authority

Mrs Anne-Marie Perez, Director of Capenergies

3. Tender's object

Technical expertise in electro mobility studies to assist CAPENERGIES with the elaboration of European deliverables in the framework of Interreg Med EnerNETmob project studying phase.

4. Context

4.1 Capenergies, energy transition cluster

The Capenergies competitiveness cluster brings together a network of 530 members and nearly 1,500 energy-related partners, including major industrial groups, companies, research and educational organizations and financial organizations. The Capenergies network constitutes a solid ecosystem, vector of economic development and competitiveness of low carbon energy sectors in Provence-Alpes-Côte d'Azur, Corsica, Guadeloupe, Reunion Island.

More information : www.capenergies.fr

4.2 ENERNETMOB, a European project

Capenergies actively contributes to the management of several European projects activities including **EnerNETmob** funded by the [Interreg MED](#) programme.

The EnerNETmob project aims at answering the priority axis 2 of the Interreg MED programme “Fostering low-carbon strategies and energy efficiency in specific MED territories: cities, islands and remote areas”, specially contributing to the Specific Objective 2.3 “to increase capacity to use existing low carbon transport systems and multimodal connection”. The Interreg MED programme is a transnational European Cooperation Programme for the Mediterranean area. It is co-financed by the ERDF (European Regional Development Fund), an instrument of the EU regional policy and of its new programming period.



EnerNETMob aims to draft, test and improve parallel “Sustainable Electromobility Plans” according to common standards and low carbon policies, in order to set an “Interregional Electromobility Network” crossing cities of all the Interreg MED area. The project promotes sharing mobility and land-sea intermodality using electric transport systems, by implementing interurban and interregional pilot networks of Electric Vehicles Supply Equipment (EVSE) also co-powered by Renewable Energy Sources.

It will develop electromobility solutions and will test pilot actions to overcome medium-trip limitations and to coordinate future investments on electric transport.

After a preliminary study phase, 12 partner countries, including France represented by Capenergies, will implement a demonstration site starting in the second half of 2019 on 3 thematic areas:

- Intermodal sea-road electromobility connections between urban seaports;
- Public services/measures for sharing electromobility affecting intermodal and/or interurban connections;
- Electric freight transport solutions for local city logistic services.

Sea/Land intermodal movements between ports, islands and coasts	Shared electromobility services in urban settings	Electromobility in service of urban logistics
Albanian Institute of Transport (Albania) County of Primorje and Gorski Kotar (Croatia) Port of Bar Holding company (Montenegro) Region of Thessaly (Greece)	Regional Development Agency of Northern Primorska Ltd. Nova Gorica (Slovenia) International Centre for Numerical Methods in Engineering (Spain) Free Municipal Consortium of Ragusa (Italy) Ministry of Transport, Communications and Works (Cyprus) Region of Peloponnese (Greece)	Energy and Environment Agency of Arrábida (Spain) Authority for Transport in Malta (Malta) Capenergies (France) University of Palermo (Italy)

More information: <https://enernetmob.interreg-med.eu/>

5. Description of work

5.1 Objectives

One or more experts in electro mobility are needed to assist CAPENERGIES with the elaboration of local studies and European deliverables in the framework of Interreg Med Enernetmob project studying phase, which is the preliminary work to define the pilot site to be implemented by Capenergies in the Bouches-du-Rhône territory.

EnerNETMob project aims at the creation of a pilot “*Mediterranean Interregional Electromobility Network*”, constituted by pilot regional “*Small-Scale Infrastructure Networks*” connecting cities, rural areas and intermodal terminals at transnational as well as at interurban level.

The “*Small-Scale Infrastructure Network*” consists of pilot modular systems of “*Electric Vehicle Supply Equipment*” (EVSE), which are connected to the public electric grid and in some cases are also co-powered by RES.

An amount of 13 local “**EVSE Networks**”, as single modules of the overall “*Mediterranean Interregional Electromobility Network*”, are placed in different nodes of the partner regions in order to



allow longer interurban/interregional displacements by Battery Electric Vehicles (BEVs).

Each “EVSE network” will be managed independently by its owner Authority, and at meantime it will be interfaced and interconnected with other infrastructures of “Mediterranean Interregional Electromobility Network”, according to the Directive 2014/94/UE.

Therefore, for each local “EVSE Networks”, every appointed partner will draft:

- a *Structural Knowledge Framework*, with the analysis of the local context;
- a *Sustainable Electro-Mobility Plan*, with preliminary design of the EVSE infrastructures /services.

Then, during the second half of 2019, EnerNETMob partners will test abovementioned networks with **3 pilot actions**:

- *Pilot 1 - Intermodal Sea-Road Electromobility Networks*, linking islands and coastal regions;
- *Pilot 2 - Sharing Electromobility Services*, such as e-car pooling, e-car sharing, e-bike sharing;
- *Pilot 3 -City Logistic Electromobility Services*, for the last mile freight transport connections in urban and rural areas.

5.2 Definition of work

The technical assistance is needed by Capenergies to draft Structural Knowledge Framework at the project’s level, with the particular analysis of the local context in Bouches-du-Rhône; and to draft Sustainable Electro-Mobility Plan, with preliminary design of the EVSE infrastructures/services.

Therefore, the tender is divided into 2 main lots:

LOT 1: COORDINATION OF THE ACTIVITY “STRUCTURAL KNOWLEDGE FRAMEWORK” OF THE ENERNETMOB PROJECT

3 expected activities:

- a) Carrying out the local analysis of the Bouches-du-Rhône electro mobility and energy supply state of the art;
- b) Collecting and analyzing the other 12 local studies performed by each partner of the project in their own territory;
- c) Elaborating a general report based on the collection and summarization of studies.

In compliance with the global studying strategy of the Enernetmob project, and under the authority of the leading partner, Capenergies is responsible for elaborating the “Structural Knowledge Framework” affecting the local analysis of regions to be involved in the pilot actions. The objective is to define efficient transport/regional planning of local “Small-Scale Infrastructure Network” for electro mobility which will be implemented in the involved partner territories.

The partners of Enernetmob project have to draft the current state of the art of transport supply and demand in all the involved Countries/Regions, focusing on interurban displacements and on electro-mobility integration with intermodal terminals.

Where possible, the local framework analysis will also affect energy supply and demand analysis of local grids, focusing on RES supply systems. After a first template draft edited by CAPENERGIES, each partner involved will conduct its own local studies. The



external expert chosen by Capenergies will then proceed to the analysis and conclusion of the results.

The Activity will affect the analysis of the coherence of transport/energy planning tools adopted at local/regional/national level and will define the benchmarks at EU level based on the contribution of each partner.

The purpose is to compare the structural framework of the territories where pilot activities will be implemented, in order to develop a benchmark for the next planning guidelines and technical standards to be adopted for the implementation of the Mediterranean Interregional Electromobility Network and connected Small-Scale Infrastructure Networks.

Analyzing data, assets, opportunities and challenges facing territories will lead to a land use scheme and action plan for electro mobility deployment that is more efficient and responsive to the public because it has been built focusing on the region's unique character.

The objectives of Local Framework Analysis are to:

- Locate and size the current electro mobility infrastructures (as charging infrastructures) and their territorial distribution;
- put forward strategic starting points and proposals for the implementation of electro mobility demonstrator in the involved partner territories linked with the current state of the art of the sector;

With this purpose, the "Partner report" has been structured in the following **suggested** chapters:

1. Land use analysis of local system and their connections
2. Socio-Economic Framework
3. Transport Framework
 - 3.1 Transport Supply (including electro mobility focus)
 - 3.2 Transport Demand (including electro mobility focus)
4. Energy Framework
5. Analysis of ongoing plans
 - 5.1 Land use and regional plans
 - 5.2 Mobility plans
 - 5.3 Energy and environmental plans
6. SWOT analysis
7. Conclusions

Regarding the study at the Bouches-du-Rhône scale, the expert must foresee in its offer a minimum of exchanges with the work of the Energy Transition service dedicated to sustainable mobility of the Sud region and the work of Polytech Marseille. Capenergies will organize sessions meeting with these two territorial partners to collaborate on this thematic.

LOT 2: CONTRIBUTION TO THE ACTIVITY “SUSTAINABLE ELECTRO-MOBILITY PLANNING” (SEMP) OF THE ENERNETMOB PROJECT

In parallel of the activity above, each partner of the Enernetmob project has to elaborate action plans of sustainable electro-mobility plans and preliminary designs of EV charging and transport infrastructures.

The technical assistance is needed to construct 2 expected activities:

a) Electric Transport Action Plan (Bouches-du-Rhône scale)

Below it is reported a suggested index of possible chapters and contents for the Action Plan:

- General electro mobility strategy with time outlook of at least 10 years, following the so-called “Logical Framework Approach” and including:
 - General objectives
 - Specific objectives
 - Results
 - Actions/Measures/Investments
 - Economic resources
 - Indicators
- Location and sizing plan of the charging infrastructures and their territorial distribution. The plan has to define 3 scenarios (1-2 years, 5 years and 10 years) and the related financial and planning instruments to be activated for the following EV infrastructures:
 - Public charging points on public soil/places (public parking, intermodal terminals, public roads, public buildings, etc.);
 - Fuel stations (new construction, upgrading of existing stations, stations on urban areas, stations on TEN-T core and comprehensive networks);
 - Private charging points that are accessible to public (e.g. charging points in shopping malls, in cinemas, commercial buildings, etc.);
 - Private charging points in not accessible areas (e.g. residential and private office buildings, etc.).
- Minimum requirements and technical standards of charging infrastructures (following the BAT and Technical standards reported in deliverable 3.3.2);
- Minimum interoperability and ICT provisions to access to electric recharging services, specifying any integration with the sustainable mobility systems that are existing or planned at regional and local level;
- Parking plans and complementary sustainable mobility services (e.g. car sharing, city logistics, limited traffic zones, reserved lanes for EVs, etc.).

b) Preliminary Designs of EV charging and transport infrastructures (Bouches-du-Rhône scale)

Preliminary design needs minimum contents requested by local legal references on public procurements and on urban planning, in order to reach all the technical and administrative authorizations by competent Authorities operating in the local context.

Below it is reported a suggested index of possible contents requested for the approval and authorization of preliminary plan:

- General report
- Technical reports
- Topographic surveys
- Urban planning evaluations
- Environmental pre-feasibility study

- Landscape assessment
- Project drawings (from 1:5.000 to 1:100 scales, indicatively)
- Energy and Structural calculations
- Cost-Benefit analysis
- Calculations of technical installations (recharging points, connection to the grid etc.)
- Price Analysis, estimative metric computation and economic framework
- Descriptive and performance specifications

5.3 Points of vigilance

1) Non-disclosure agreement

The activities described above are logically interconnected with deliverables already produced by the Enernetmob project studying group in order to set common indicators and guidelines to be followed by each partner.

- EU Policy and Regulation Framework of electro mobility
- National Policy and Regulation Framework of electro mobility
- Guidelines to develop “Sustainable Electro-Mobility Plans”
- Guidelines to develop BATs and Technical standards

These documents will be available to the chosen expert(s), and must be taken into account for the elaboration of work but remain confidential for the project purposes.

All material and studies elaborating by the expert in the Enernetmob project framework are confidential; to be exclusively used 100% for the project purposes; and must not be used for any commercial or advertising purposes.

The chosen expert(s) will sign a non-disclosure agreement during the negotiation phase of the contrat(s).

2) Necessary periods of exchanges, feedbacks and validation

All activities must comply with the quality indicators required by the Work Package leader and the coordinator of the project. Periods of validation, exchanges and feedback with Capenergies on one hand, each partner if needed and the Technical committee of the project on the other hand, must be taking into account in the proposed retro planning and are required throughout the length of the collaboration.

3) Imperative use of template and layout of the Enernetmob project

Regarding the layout of each document, the expert(s) will use the template provided by the EnernetMob project, complying with the Interreg Med programme imperatives.

6. Deliveries expected

6.1 Lot N° 1: Structural Knowledge Framework

The expert will produce 2 separated deliverables:

- 1 document presenting the Bouches-du-Rhône case in French and in English;



- 1 general report gathering the collection of 13 studies, comprising the Bouches-du-Rhône case, (all in English) and presenting an analysis at the transnational level, in English language.

The general report has to be submitted on **July 31, 2019** as the final deadline to the Interreg Med programme. Capenergies has already advised the consortium of the project to finalize their first version of local study for **June 19, 2019** in order to allow a period of exchanges and feedbacks on their work when needed, and additional time for the external expert to elaborate the general report based on the compilation of studies.

6.2 Lot N° 2: Sustainable Electro-Mobility Planning

The expert will produce 2 separated deliverables:

- Electric Transport Action Plan : 1 document presenting the Bouches-du-Rhône case in English;
- Preliminary Designs of EV charging and transport infrastructures: 1 document presenting the Bouches-du-Rhône case in English;

The general report on Sustainable Electro-mobility planning has to be submitted on July 31, 2019 as the final deadline to the Interreg Med programme. Therefore, Capenergies has to send the first version of these documents to the activity leader on **June 19, 2019**, in order to allow a period of exchanges and feedbacks with the expert(s) chosen. The delivery of work will end no later than July 31, 2019, after ensuring the quality of the deliverables by the activity leader.

6.3 Organization chart of delivery

The designated service provider(s) will be in direct contact with the Europe International business manager representing Capenergies within the European project consortium. The Europe International business manager Capenergies will transmit for validation to each partner, workpackage leader and the project coordinator the deliverables to record the achievement of the objectives.

The Europe International business manager Capenergies will also rely on the coordinator of the Eترنتmob project to obtain from European project partners the raw material needed, based on the elements targeted with the service provider(s).

7. Consultation regulation

7.1 Applicable documents

- Present specifications available online
<https://www.laprovencemarchespublics.com:443/4958>



7.2 Offer content

This consultation is broken down into **2 lots, comprising 4 main deliverables**: Capenergies reserves the right to order all or part of the services to one or more different experts.

Expected answer elements:

- Brief presentation of the company,
- An explanatory note on the understanding of the need,
- The details of the services offered for each lots deliverables,
- References and examples of similar mission,
- Internal and external resources mobilized,
- Retroplanning,
- Prices.

As an indication, the target budget allocated to each action should ideally not exceed:

- Lot 1 Structural Knowledge Framework : 20 000€
- Lot 2 Sustainable Electro-Mobility Planning : 30 000€

The comparison of offers will be made on the following basis:

- 60% understanding of the need and quality of the offer,
- 40% price.

7.3 Applying modalities

Applications will be submitted in electronic format before **Thursday May, 9, 2019, 18:00 pm (CET time)**.

Should you have any inquiries about this consultation, **Héloïse Delseny, Interreg Med projects Manager for Capenergies**, will offer time slots for conference call from Wednesday April 24, 2019 to the deadline to submit applications. Please reserve a time slot directly by email to: heloise.delseny@capenergies.fr

