

## Activity Brief

### Sustainable Transportation / RE Powered Charging Station

#### Monastir Municipality – Electric Car with Fast Charging Station for Municipality Daily Use

<b>Activity Name</b>	<b>Renewable Energy and Sustainable Transportation</b>
<b>Lead Partner</b>	NERC/RSS
<b>Supporting Partner(s) if applicable</b>	-
<b>Geographical Scope of Activity</b>	<b>Munastir Municipality – Electric Car with Fast Charging Station for Municipality Daily Use</b>
<b>Budget Line Item</b>	<b>4.1 Implement pilot projects</b>
<b>Budget Amount</b>	<b>JD 45,000</b>
<b>Start Date</b>	<b>Q4, 2018</b>
<b>End Date</b>	<b>Q1, 2019</b>

#### SECTION A: ACTIVITY DESCRIPTION

##### 1.1 Activity Summary

Monastir municipality runs around 35 cars and vehicles for their daily services and operations. The fleet consumes huge amount of fuel oil and gasoline 225,000 litre/year and 13,390 litre/year, respectively, contributing in 631 tons of CO<sub>2</sub> emissions.

MINARET project will introduce the electric cars and fast charging stations concept to the municipality in order to reduce the above-mentioned huge figures. A brand new electric car (zero fuel consumption) will be purchased for the benefit of the municipality for their daily trips/operations. However, MINARET thought about complete solution where a fully RE-powered fast charging station will be equipped to the municipality building so the electric car can be fastly charged once/twice a day (the car can drive 150 km on a single charge).

The charging station will be fully green powered by 10-20 kWp off-grid PV system with storage in order to secure twice a day fast charging for the electric car. This would be sufficient for 150-300 km driving.

##### 1.2 Approach to Ensure Community Participation

Utilizing electric cars and renewable energy technologies offers a great opportunity to significantly reduce municipalities' energy expenses at a time when many are facing budget difficulties. In this regard, the municipality should build its staff capacities and have training on how they can follow up and maintain the charging station. The results of introducing such a technology could be visible to the Municipality's citizens in order to garner continued community support. These results can be communicated to the citizens through awareness workshops, leaflets, brochures...etc. In addition,

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citizens are normally eager to see that their local authority is doing its best to preserve natural resources and leads by example showing the great benefit of utilizing such technologies. Where necessary, citizens or communities can be involved in municipality's actions related to the above-mentioned topics from the planning phase through participating in meetings, discussions and in taking the right decision.

#### **1.3 Gender Mainstreaming Approach & Plan**

A gender mainstreaming approach requires that gender equality issues be raised at each step in any project cycle. In most cases, women capacities related to new energy technologies and renewable energy issues are invisible and limited. We think that women need special support and assistance to build their skills and gain the needed knowhow on new energy technologies and renewable energy and its usage. Gender engagement especially women can be enhanced through the following:

- Ensure equal participation of women in project's meetings and discussions
- Ensure active participation in relevant awareness workshops
- Where possible, to participate in planning and implementation of energy technologies and renewable energy actions.

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##### 1.4 Activity Objectives & Expected Results

Activities	Objective	Input	Outputs/Measureable Results	Outcomes	Purpose/Impact
Electric car with fast charging station.	Deployment of resource efficiency & clean technology practices at the Municipality level and reducing energy/running cost and reducing accompanying CO2 emission. .	<ul style="list-style-type: none"> <li>- Electric car with fast charging station.</li> <li>- Equipment of the fully RE-powered charging station.</li> <li>- Financial resources</li> <li>- Municipality technical staff participation</li> <li>- Qualified contractors (installers of units)</li> <li>- MINARET project management and supervision of activity implementation</li> </ul>	<ul style="list-style-type: none"> <li>- Brand new Electric car.</li> <li>- Fast charging station powered by 20 KWp off-grid PV system with storage.</li> </ul>	50 tons of CO <sub>2</sub> emissions reduced.	<ul style="list-style-type: none"> <li>- Municipalities act as “lead by example” actors</li> <li>- Promotion of electric cars usage</li> <li>- Promotion of clean technology/RE</li> <li>- Enhancing community awareness on best practices for resource efficiency</li> <li>- Contribute to climate change mitigation actions</li> <li>- Achieving market transformation towards clean technologies</li> <li>- Promoting sustainable development concept at municipality &amp; communities levels</li> </ul>

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##### 1.5 Implementation Plan & Time-frame including gender mainstreaming & community participation

Task	Responsibility		Indicator	Tools & Means of Verification	2018						2019				2020			
	Organization	Person			7	8	9	10	11	12	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Updating data, if necessary	- RSS/NERC - Municipality Staff	- Eng. shaker Hammad	- Updated sizing if any.	- Updated summary paper/report														
2. Preparation of technical specification and tender documents	- RSS/NERC - Municipality Staff	- Eng. shaker Hammad - Municipality Focal point	- Technical specifications and tender conditions are prepared.	- Tender documents files														
3. Tender announcement, evaluation and awarding	- RSS/NERC - Municipality Staff	- Eng. shaker Hammad - Municipality Focal point	- Announcement in newspaper or other means - One contractor has been awarded	- Evaluation report - Awarding letter														
4. Implementation of the action	- Awarded contractors/installers	- Awarded contractor/installer	- 20 KWp off-grid charging station. - Brand new electric car.	- Progress reports														
5. Supervision and monitoring & evaluation	- RSS/NERC - Municipality technical Staff	- Eng. shaker Hammad - Municipality Focal point	- # of corrective actions or variation orders and notes	- Progress reports														

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##### 1.6 Communication Plan

- Coordination and communication with Municipality staff and country's focal point to ensure better management of the action implementation.
- Organize meetings; face-to-face, skype, phone calls... etc.
- Share progress reports and MOMs.

#### SECTION B: ACTIVITY BUDGET

The total budget of the action is broken down as follows:

Task	Budget /cost (JD)
1. Updating data, if necessary	1,000
2. Preparation of technical specification and tender documents	1,000
3. Tender announcement, evaluation and awarding	1,500
4. Implementation of the action	40,000
5. Supervision and monitoring & evaluation	1,500
<b>Total</b>	<b>45,000</b>