

EUROPEAN ECONOMIC AREA FINANCIAL MECHANISM

2009 -2014

(E.E.A. F.M. 2009-2014)

GR02 PROGRAM

"INTERGRATED MARINE AND FRESHWATER MANAGEMENT"



PROJECT MANAGER

**SPECIAL COORDINATION SERVICE OF ENVIRONMENTAL ACTION (EYSPED)
OF THE MINISTRY OF ENVIRONMENT, ENERGY AND CLIMATE CHANGE (MOE)**

PROJECT : "SUPPLY OF PORTABLE DESALINATION UNIT FOR OIA VILLAGE",
budget 812.000,00 € (total public expenditure)

The GR02 program, funds the project "**Supply of portable desalination unit for Oia village**" with **698.800,00 Euro** (excluding VAT). The project is co-funded by 85% from the EEA Grants, the period 2009-2014 and 15% by National resources.

The European Economic Area (EEA) was established in 1994, upon entry into force of an agreement (EEA Agreement) between the three EFTA member states (Iceland, Liechtenstein and Norway – hereinafter the Donor Countries) and the European Union Member States. This agreement, besides free movement of goods, services, people and capital within the EEA members, covers cooperation in areas such as research, development, education, social policy, environment, etc.

The EEA Grants for the period 2009 to 2014 is a valuable development tool, besides the National Strategic Reference Framework – NSRF, which offers considerable potential and a variety of benefits to our country in various fields of great social and economic interest.

The main objectives of the EEA Grants 2009-2014 are :

- To reduce economic and social disparities in the European Economic Area and
- The reinforcement of the relationship between the Donor Countries and Greece.

In November 2011, Greece has signed a Memorandum of Understanding (MoU) with the donor countries for projects in five (5) Section Programs. Under the "Environmental Protection and Management" priority Section, has been agreed the implementation of the project "Integrated Marine and Freshwater Management". The Program's total public expenditure amounts to 11.188.000 €, with co-financing rate of 85% from EEA Grants. The project manager has been appointed the Special Coordination Service of Environmental Action (EYSPED) of the Ministry Of Environment, Energy And Climate Change (MOE). The Program aims to contribute to the good environmental status of European marine and inland water resources.

Strategic objective of the Program is to improve, monitor and ensure the proper and sustainable management of our country's freshwater and marine resources, with a series of actions that will result in an increase of the available quantities of good quality water (surface and groundwater), protecting biodiversity and adopting practices which achieve the sustainable use and management of the economically and environmentally valuable water resources.

The program for "Integrated Marine and Freshwater Management" and its actions will contribute to awareness effort, to strengthen the principles of sustainable development, the creation of jobs, but also to support social cohesion in areas facing severe environmental problems and economic difficulties.

- Approved project for "Municipal Company of Water Supply and Sewerage of Thira, (D.E.Y.A. Thiras)"

The approved project has the title of "***SUPPLY OF PORTABLE DESALINATION UNIT FOR OIA VILLAGE***" and includes the supply and installation of a portable desalination unit for Oia village (Santorini island) with a total capacity of 900 m³/day fresh water. The unit will be installed and operate alongside with existing desalination units, utilizing existing sea-water feed installations as well as brine (salt water) disposal facilities.

- Date of notice

September 29, 2015

- Project Tendering date

On Thursday 17th of December 2016, at 10:00 a.m., in Fira at the offices of DEYATH.

- Date of contract

February 17, 2016

- Completion of project

June 8, 2016

The project is installed in the area of the existing desalination plants of D.E.Y.A. Thiras. in IA, where a billboard is installed, with all the information about the financing agency in accordance with the legislation in force.

Aim of project

The supply of the plant is aimed to replace the existing No1 RO plant with higher production capacity. The No1 RO plant is placed in the building of the desalination units in Ia. The existing desalination unit due to age (over 20 years) shows frequent breakdowns, has high energy consumption and it cannot meet the higher summer demand for drinking water.

The aim of the Commission is to end the shortage of fresh water during the summer period for the municipal community of OIA, and at the same time to improve the quality of drinking water. Additionally, one of the main objectives of the Commission is to protect the water resources and the environment in the region of IA, as the unit is fed by seawater and not from the aquifer, which displays signs of salt water intrusion phenomena, throughout the island.

This project is an absolute necessity to ensure the continuous supply of fresh water for the community of OIA. It should be noted that in recent years because of the rapid growth of tourism on the island, and particularly in IA during the summer months, we are facing very serious problems to meet the fresh water demand. To meet the continually increasing

fresh water demand of OIA we are obliged to transfer by vehicles the additional quantities of fresh water from desalination facilities from Fira. This solution causes not only a financial strain on Municipal Water Company but also environmental and traffic problems on the island. Additionally, the design of the under supply desalination unit is based on environmentally friendly technologies. In particular, the following measures have been taken to minimize the required electric energy:

1. Use energy recovery system with efficiency of 90% and an energy recovery from wasted brine which exceeds 40% of the energy consumed.
2. Use of inverters in all low pressure pumps.
3. Use the solar system, with minimum power of 5 kW, to supply with electricity the secondary units in use such as:
 - Lighting of the outside area
 - Lighting, ventilation and air-conditioning of the desalination unit
 - Power supply of PLC and automation system of the plant, providing remote control even when there is a shutdown of the main electricity supply
4. Use of high-efficiency pumps with a view to reduce the energy required.
5. Reverse osmosis membranes with minimum energy consumption.

-Expected results

The expected results are to provide high-quality fresh water, to meet the high demand of fresh water during the touristic summer period in the Community of Ia. Additionally, the new desalination plant upgrades the old Plant' s capacity from 350 m³/day to 900 m³/day, to meet the growing demand of fresh water.

Output indicator:

Fresh water is supplied in accordance with the requirements of Directive 98/83/EC for 4.500 inhabitants per day or more than 500,000 inhabitants annually. In addition, the main objective of the Program is the protection of the water resources and environment in area of municipal community of Ia.

It should be noted that the proposed intervention is included in the management plan of the region of South Aegean and is specifically indicated in the table with the existing and planned desalination plants for the water resources in the district of Aegean Islands as it has been posted on the site of the Special Secretariat of the Water Resources of MINISTRY OF ENVIRONMENT AND ENERGY.

For more information concerning the construction and operation of the project, any interested person may apply to the offices of the technical service of the D.E.Y.A. Thiras in Fira.Thiras.

Competent Employee: Mainas Nicholaos.

Contact details: D.E.Y.A. Thiras

Phone: 22860-25393/4 Fax: 22860-25898

Press conference :

http://www.neasantorinis.gr/topikes_eidiseis/4143/BINTEO_I_SYNENTHEYXI_TYPOY_STIN_DEYA_THIRAS_GI_A_TIN_NEA_AFALATOSI_TIS_OIAS.htm

Posts :

http://atlantea.news/diagonismos_gia_promitheia_foritis_monadas_afalatosis_gia_tin_oia/

http://atlantea.news/nea_monada_afalatosis_thalassinou_nerou_stin_oia/

<http://santonews.com/nea-afalatosi-stin-ia.html>

http://www.neasantorinis.gr/topikes_eidiseis/4124/Nea_monada_afalatosis_stin_Oia.htm

http://www.neasantorinis.gr/topikes_eidiseis/4136