



RDP Projects Database (PIKSE)

Postcard Template (MS Word 2003)
Version 2a – September 2010

Project Title: Electronic water abstraction of irrigation with the use of rechargeable carts for saving irrigation water in Municipality of Velventos

'At a glance'

Notes

Project Theme:

Choose an item:

Competitiveness of Agriculture and Forestry

Please select **only one theme** per project using the **drop-down menu**. Click once on the grey <text box> for options.

Sub-theme:

Restructuring, developing physical potential and promoting innovation

Please enter **one sub-theme** into the grey <text box>. Please ensure that the sub-theme corresponds to the Project Theme above – see **Annex 2** of the Guidance Note

Keywords:

Water

Waste water

monitoring

modernisation

nature conservation

Please select **up to 5 keywords** per project from **Annex 3** of the Guidance Note and insert into the grey <text fields> as appropriate.

Country/Region:

Greece - Region of West Macedonia - Velvento, Kozani

Please insert the **name of the RDP territory** where the **project is located**

Final Beneficiary Type(s):

Choose an item: .Public / local authorities

Choose an item: .Public / local authorities

Please insert **up to two final beneficiary types** using the **drop-down menu**. Click once on the grey <text box> for options.

Project Cost:

Choose an item: > €500 000

Please select **one of the cost ranges** from the **drop-down menu**

RDP Measure(s):

321

Please **insert the RDP measure code** into the grey <text boxes>. Provide **ONLY** the numeric code (e.g. 312). Please **DO NOT** insert the title of the measure

Duration:

01.04.2009

Please insert the **official project approval date** (month/year)

09.11.2011

Please insert the **project completion date** – actual or estimated (month/year)

Last Updated:

5 March 2012

Please use the grey <text box> to insert the **date (dd/mm/yyyy)** when this postcard is completed.



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Postcard Author:

Christos Apatsidis

Please insert the **name of the person that produced the postcard**

Main Postcard Text

Please note that you may enter the text below in English or any other official EU language. The ENRD Contact will arrange the necessary translation into English.

Background (maximum 150 words):

Environmental protection and sustainable management of natural resources as well as the enforcement of rational use of water supplies for saving irrigation water are two of the main objectives of RDP.

The project refers to the supply and installation of electronic water abstraction systems with the use of rechargeable card in default positions of the irrigation net of Velventos Local Organization of Land Improvement, who was the beneficiary of the project. The application aims at controlling possible irregular use of the irrigation net, facilitating net surveillance and saving amounts of valuable water and energy as well as time and labor in favor of the farmers, since their physical presence at their farms is not required.

Objective (maximum 100 words):

The main objectives of the project are: a) water supplies conservation through reduction of water waste, b) record of water amount spent in each irrigation and also throughout the irrigation season, c) reduction of electricity consumption by the pumping stations, d) reduction in damage of the pumping stations and their consequences. Through the achievement of all the above, more financial resources are saved in order to be used for the maintenance and upgrade of the net as well as for the financing of action aiming at the improvement of the rational management of available water supplies by the Local Organization of Land Improvement.

Main Activities (maximum 150 words):

The main obligation / commitment that has been undertaken by the beneficiary is the replacement of simple water abstraction system of the irrigation net of the Local Organization of Land Improvement of Velventos by a new system of electronic abstraction which contains the installation and operation of the following equipment:

- control screen
- battery box
- seal box
- card slot system
- rechargeable card system
- card recharge device and
- the software of recharge of the electronic cards and of monitoring the consumption of each user.

The Local Organization of Land Improvement of Velventos charges the cards in the card charge device, which is situated in his building, by typing the desirable quantity per consumer and receiving the corresponding amount of money. The consumer puts the card in the electronic water abstraction device, the units are automatically transferred in the device and the valve opens. The consumer can interrupt the irrigation by touching the card on the system, while the units remaining return to the card. If all units have been consumed, the supply will be automatically interrupted and the consumer will have to recharge his card at the Organization. The system is activated and deactivated only by the same card. The user can check the credit limit on the screen. The card of the system is unlimited rechargeable and made of stainless material so as to be resistant at difficult conditions in the farms.

Results and Benefits (maximum 150 words):

The project has been announced in 2011 as part of the Agrienvironmental Measures of the 3rd Programming Period (Measure 3.15) and the first beneficiaries have signed the contracts in 12/2006.

The overall budget accounts for 602.085 € .

The economic advantages of the implementation of the system are remarkably large since the waste of water is avoided with a very low cost of installation and operation. In fact, the results of the first year of the implementation of the system of electronic water abstraction are the following:

- Water conservation of about 20%,
- Creation of a record containing analytical data about the consumption of water during the irrigation period, which is a valuable tool,

This document is protected, you can only enter text in the spaces provided

- Reduction of the consumption of electric power used by the pumping station by about 20%,
- Reduction of deteriorations of pumping stations by about 15%,
- Increase of the revenues of Velventos Local Organization of Land Improvement by 20%,
- Nearly immediate identification of the size of leaks and immediate actions for their rehabilitation.

Lessons Learnt (maximum 100 words):

- Special attention should be paid to those farms needed to incorporate to the network so as the electronic water abstraction can be connected with the existing irrigation net at the specific points of the already functioning water abstractions.
- Water saving have become even more critical because of the climate change which leads to the increase of extreme weather conditions. They cause not only smaller availability of water supplies, but also higher demand of water because of the high temperatures. Through the project is achieved irrigation water conservation and major quantities of irrigation water that create major water saving potential capacity.

Further Information (enter text or attach any additional documents):

Project Location:

Velvento, Kozani - Region of West Macedonia	Please provide more specific information on the geographical location/scope of the project e.g. a project in Estonia might be described as in Võru County, South Estonia
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Project Cost:

602,085 € (Total cost of which 112,585 VAT, no private funds, 100% public expenditure)	Please insert the total project cost, including if known the breakdown into EU + National + Private funds
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Other Additional Information:

Contact Information:

Project Website:

www.agrotikianaptixi.gr (for the whole programme RDP Greece 2007-2013)

Contact (Name and E-mail):

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Additional Contact Details:

Language(s) for communication:

Greek, English

Please return the completed postcard to postcards@enrd.eu together with a) any relevant photographs and b) any additional documents that you wish to be linked to the postcards.