

AGIR: Efficiency assessment of water and energy in collective irrigation systems

AGIR: Avaliação da eficiência da água e energia em aproveitamentos hidroagrícolas
PORTUGAL - MEDITERRANEAN REGION

Starting date - expected end date | 03.07.2017 - 30.06.2020

<http://www.fenareg.pt/?p=3010>

Operational Group

Improving the sustainability of collective irrigation systems (CIS), through the efficient use of water and energy (W&E), is one of the concerns of the managers of water user Associations, a priority of the National Rural Development Programme 2014-2020 and a key-driver addressed by the EU Common Agricultural Policy. The project aims at establishing an innovative performance assessment system to support the diagnosis of inefficiencies and the identification of solutions for problem-solving in CIS. Project action plan involves: (1) Robust methodology for assessment of W&E efficiency in the primary and secondary networks of the CIS; (2) Validation and consolidation, through the implementation of three case studies; (3) Technical guides to support W&E inefficiency diagnosis and decision-making about the solutions in CIS. The preliminary results of the water balance calculation indicate that the real losses component is the most relevant in the non-revenue water, regardless of the type of CIS (pressurised, channel or mixed). These results demonstrate the importance of investing in the rehabilitation of existing infrastructures, besides the need to improve operational control of physical losses.



Lead partner: FENAREG – Federação Nacional de Regantes de Portugal, represents the irrigation water sector in the national and international institutions concerned with water resources management for irrigation. (non-profit association)

Other partners

Research

- ▶ LNEC – Laboratório Nacional de Engenharia Civil, IP (public research institute)
- ▶ UÉ – Universidade de Évora (university)
- ▶ IPS – Instituto Politécnico de Setúbal (university)
- ▶ INIAV – Instituto Nacional de Investigação Agrária e Veterinária, IP (public research institute)
- ▶ COTR – Centro Operativo e de Tecnologia de Regadio (non-profit association)

Managers of water users association

- ▶ Associação de Regantes e Beneficiários da Obra de Rega de Odivelas (non-profit association)
- ▶ Associação de Regantes e Beneficiários do Vale do Sorraia (non-profit association)
- ▶ Associação de de Beneficiários da Obra da Vigia (non-profit association)

Irrigators

- ▶ Agro-Vale Longo
- ▶ Mencoca Agricultura
- ▶ Sociedade Agrícola Bico da Vela II



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