

Development of cost-effective reclamation technologies for domestic wastewater and the appropriate agricultural use of the treated effluent under (semi-) arid climate conditions

Start date:2000-04-01

End date:2003-12-31

Project Acronym:CORETECH

Project status:Completed

Coordinator

Organization name:WAGENINGEN UNIVERSITY

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Description

Objective: Domestic wastewater is more and more regarded as an important water resource in particularly arid climate areas. Development of cost-effective reclamation techniques will stimulate the usage of this potential resource. In the current proposal, the project partners are aiming to develop such techniques, making a direct link between wastewater treatment and agricultural production, and in the mean time studying the impact of the water quality on the agricultural production systems (including soil and health risks). The core technology for BOD removal will consist of an anaerobic treatment step avoiding any energy demand. This will be followed by appropriate post-treatment for meeting reuse criteria. Based on the effluent criteria, the most suitable water distribution / irrigation system will be researched coupled to agricultural production systems. In addition, a bottom-up approach will be followed in which the agricultural demand sets the effluent criteria and, consequently, the specifications for the treatment system. The advantage of the latter approach is that a low-grade application (e.g. cotton production, trees, animal fodder) will require only a plain, low-cost technique.

Achievements:

General information:

Project Details

Start date:2000-04-01

End date:2003-12-31

Duration:45 months

PJ_REF:ICA3-CT-1999-00012

Project cost:895050 EURO

Project Funding:895050 EURO

Programme Acronym: [INCO 2](#)

Programme type:Fifth Framework Programme

Subprogramme Area:Mediterranean partner countries

Contract type:Cost-sharing contracts

URL:

Subject index:Coordination, Cooperation, Legislation, Regulations, Policies, Scientific Research

Other Indexes:

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