




Method and System for the Recycling of Grey Water for Industrial and Household Use (08 CY 0641 0IW6) to Reduce the Demand on the Supply of Potable Water 

Abstract

A Cypriot SME has developed a system, which effectively cleans and recycles grey water and allows its reuse in secondary applications such as toilets and gardening activities. The system uses a combination of physical and chemical purification method and offers significant advantages not only to the consumer but also to the local water authorities. The researcher is seeking industrial partners who would be able to manufacture and locally market and/or distribute and install the system.

Description

In Cyprus, the droughts have created the need for new practical ways to save drinking water. One of the most efficient ways of achieving this is through the recycling of grey water (water from bathtubs, shower, washbasins, washing machines etc.) that allows consumers to use 45% less water than they used to without sacrificing their comfort or changing their way of life.

The system is fully customisable, depending on the specifics of the installation site and its cost is minimal (this also applies to the consumable materials which are required). It has been tested successfully in Cyprus and after a chemical analysis, the quality of the recycled water has been verified to be suitable for irrigation as well as toilet flushing. The settling material treatment is minimal and may be discharged to the septic tank of the building or to the central sewage system. The system is fully automated and can be customised to accommodate as much or as little recycling as is required by the consumer.

The system is installed in several households and other community buildings, such as army camps, schools, football fields and old people's homes, in Cyprus and it has been adopted by the government of Cyprus as a water saving measure.

Innovations and advantages of the offer

- Simple to install
- Completely automated
- No maintenance needed
- Minimum cost for the system itself as well as for the consumables that are used
- Water and money saving for the consumer

Current and Potential Domain of Application

Industrial applications
Household applications
Community applications

For further information (including IPR status) please contact:

Susanna Chericoni
Phone: 39 050 931620
Fax: 39 050 931640
Email: s.chericoni@cpr.it