

## **COST-EFFECTIVENESS ANALYSIS FOR WATER MANAGEMENT IN THE ISLAND OF PAROS, GREECE**

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### **EXTENDED ABSTRACT**

The present work addresses the question of developing a more efficient and least cost water resources management in arid or semiarid regions. Decision making processes in these circumstances is subject to tight budgetary constraints that reduce the number of the available solutions.

A methodology is developed and is implemented in a structured procedure of well defined steps in the island of Paros, Greece. Supply side management options proposed by local stakeholders and published studies are evaluated, and the incremental cost effective curve is derived. The results indicate that new drills and a new desalination plant can meet the current and near future water demand.

**Key words:** Cost-Effectiveness Analysis, Incremental Cost Curve, Water resources management.