

Title (en)
TOOL FOR MANAGING MULTIPLE WATER RESOURCES

Title (de)
WERKZEUG ZUR VERWALTUNG MEHRERER WASSERRESSOURCEN

Title (fr)
OUTIL DE GESTION DE MULTIPLES RESSOURCES EN EAU

Publication
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Application
EP 17754760 A 20170727

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Abstract (en)
[origin: WO2018020180A1] The invention pertains to a system for quantitative water management comprising the following elements: at least two interconnected water production entities (U), each production entity (U) being defined by a maximum production flowrate, at least one water resource (S) linked to one at least of the production entities (U), each water resource (S) being defined by a maximum tapping-off flowrate, at least one demander element (D) requesting water produced defined by a pre-established temporal curve of water demand produced as a function of time, each link between production entities (U), water resources (S) and demander elements (D) being ensured by a transfer work (C) having a predetermined maximum flowrate, these transfer works (C) being able to be interconnected, each production entity (U) and each water resource (S) furthermore being associated with a weighting function P, said system being characterized in that it furthermore comprises a calculator adapted to minimize the global weighting function Pg of the system, i.e. the sum of all the weighting functions P of the various elements of the system, while guaranteeing compliance with the pre-established temporal curve of water demand produced of each demander element (D) under constraint of compliance with the maximum flowrates of the various elements of the system. The subject of the invention is also a method of quantitative water management of the aforementioned system.

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