

Title (en)
COMBINED HEAT GENERATION AND WATER DESALINATION PLANT

Title (de)
KOMBINIERTE WÄRME- UND WASSERENTSALZUNGSANLAGE

Title (fr)
INSTALLATION COMBINEE DE GENERATION D'ENERGIE CALORIFIQUE ET DE DESSALEMENT D'EAU

Publication
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Application
EP 21794606 A 20210928

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Abstract (en)
[origin: WO2022064161A1] The invention relates to a combined heat generation and water desalination plant (10) comprising: - a slurry-ice generator (20) configured to generate slurry ice from water coming from the water supply system (12), the slurry containing ice crystals and a residual liquid, - a separation system (24) configured to separate the ice crystals from the residual liquid toward a first outlet (26) and a second outlet (28) respectively, - a precooling system (42) for precooling the water supplied to the slurry-ice generator (20), - an exchanger system (36) exchanging heat energy with at least one receiver (38) so as to exchange the heat energy from the ice crystals or from the residual liquid with said at least one receiver (38), desalinated water being obtained from the melting of the ice crystals.

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