

Nuclear desalination: A review on past and present

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ABSTRACT

Dual nuclear electricity-thermal desalination plants were the subject of investigation for almost 5 decades, starting around 1960 and on. Desalination plants use the steam released from the reactors to drive the evaporation process, just as in conventional dual-purpose plants. They are installations of very large capacities, suitable for construction in places where shortage of water and conventional fuels prevails, or where the transport of both is extremely expensive. From the beginning, many studies on these combinations have been made and today several such installations, of a rather small capacity, are in operation. In this paper, an attempt is made to present the most important studies on dual nuclear electricity-desalination plants, from the earlier ones up to the present date.

Keywords: Nuclear reactors; Thermal desalination; Agro-industrial complexes; Feasibility studies

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