Gold Coast desalination plant commissioning and operation after one year with isobaric ERDs

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ABSTRACT

One year after successfully commissioning the Gold Coast plant in Tugun, Australia, the performance of the plant is well above expected values. This performance is in part attributable to the DWEER™ energy recovery device whose efficiency is significantly higher than contracted values. One component to this success is the DWEER controllability which has allowed the customer to operate the plant over a wide range of flows to suit the desired output. The controllability of the Dweer also optimizes the efficiency at each flow condition. A number of challenges where encountered, but they were overcome in conjunction with the customer during the commissioning phase.

Keywords: Energy recovery devices; ERD; DWEER; Efficiency; Controllability; Challenges; Commissioning

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