

عنوان مقاله:

Investigation of Sea Water Intake Alternatives at Shores with Low Slope

محل انتشار:

پانزدهمین همایش صنایع دریایی (سال: 1392)

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خلاصه مقاله:

The presented paper is focused on the seawater intake alternatives for desalination plants with the main aim to introduce the best option at shores with a low slope. Supplying feed water and selecting intake system at site locations with lowcostal gradient are very important due to providing required water quality and capacity, minimum environmental impact, geotechnical limitations prolongation of intake route and increasing dredging volumes. By attention to the hydrography and topography conditions of this site, it is necessary to investigate all of the intake alternatives. The various seawater intake methods is introduced at this paper and for a case study in Bandar Abbas city, according to their site condition, six alternatives, independent pipeline, existing break water plus pipeline, piled jetty, existing breakwater plus piled jetty, beach wells and tidal sea water, are selected to future investigation. These alternatives are evaluated and compared from the technical, construction, environmental and capital cost aspects, finally by grading and ranking of each alternative, the best intake method, existing break water plus pipeline, is the system that achieved higher scores.

کلمات کلیدی:

Seawater Intake, Low Slope Beach, Desalination Plant

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