



RWE's expertise assisted Pelican Point
in ensuring environmental limits did
not restrict operation

CASE STUDY

RWE's experts designed the cooling water intake and outfall of Pelican Point to ensure verified compliance with environmental limits at least cost.



The need for our expertise

Tight environmental limits on cooling water discharge from Pelican Point required the careful consideration of design and siting of the cooling water intakes and outfalls. They needed to demonstrate compliance within environmental limits, and a rapid response on design and siting to meet bid deadlines.

To meet this challenge RWE's role within the project was to:

- perform a modelling study to determine the design of cooling water intakes and outfalls, which is compliant with environmental legislation at minimised cost
- advise on the design and operation of a monitoring programme for air and water quality, and perform an analysis of the monitoring data
- produce a report which demonstrates, to the satisfaction of the South Australian Environment Protection Authority, that Pelican Point is operating within its licence conditions.

Putting our expertise into action

To produce a design which would meet environmental limits at least-cost, we drew on our proven track record and depth of experience in:

- the least-cost, environmentally-compliant, siting and design of cooling water intakes and outfalls
- thermal plume dynamics
- oceanography.

After the power station was built, we used our expertise to design a water quality monitoring programme and to review power station operational data, atmospheric data and marine environmental data. We also extracted the maximum value from the available data in order to submit an analysis to the environmental regulator, demonstrating compliance within standards.

The difference we made

RWE's ability to respond swiftly to Pelican Point's request and to deploy an experienced team contributed significantly to the timing of the bid submission and subsequently to its success. We were able to make a rapid assessment of the issues and select the right analysis tools and methodologies for the task. Our expertise ensured that environmental limits did not restrict the operation of Pelican Point power station.

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