

Permit application for a Sea Water Air Conditioning plant

Curaçao, 2009

Client info:



Name: Aqualectra

Sector: Power/Utility

Location: Curaçao

Aqualectra is Curaçao's utility company responsible for the production and distribution of power and water as well as the delivery of accompanying services.



Rationale: Aqualectra/Evelop planned to engineer and build a Sea Water Air Conditioning for hotels in the Piscadera area. This air conditioning makes use of the cold sea water from a depth of about 800 meter. The deep sea water contains high concentrations of nutrients. The disposal of this cold, nutrient rich water may cause serious problems, like algae growth.

Approach: EcoVision drafted the complete permit application set. The dispersion was modeled in a sea water flow software application (Aquasea). Also an inventory was made of the current nature values of the coral reef. Recommendations were given on the optimal depth and location of the deep see pipe and the outfall pipe. The recommendations were discussed with all involved government departments and NGO's in a number of workshops.

Outcome: The project was cancelled because financially, it appeared not to be feasible.