

Maldives Island

KPS Provides Easy-Install Safe Fuel Delivery System for Maldives Island's Sole Energy Source



Maldives island's energy is dependent on shipped in fuel

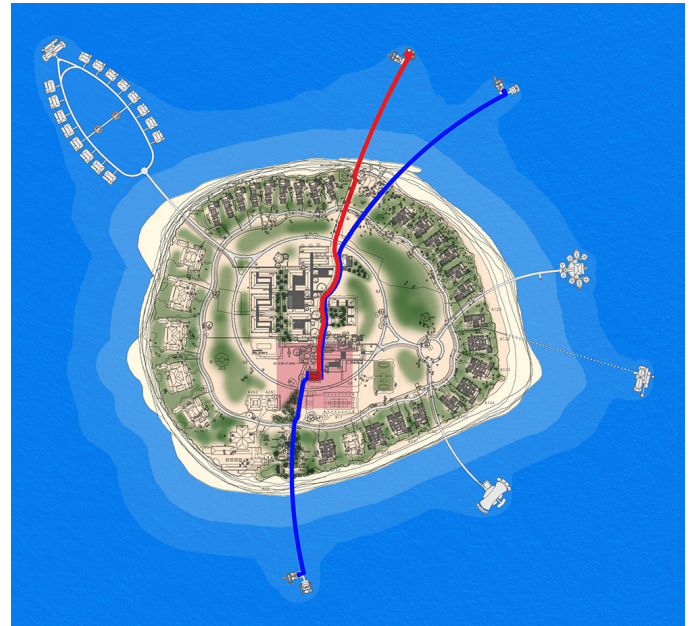
Project Overview

Like a number of small islands this one is completely dependent on fuel shipped in. This is stored in overground tanks then used to refuel boats and power generators producing energy for the entire island. This island had been recently bought by a Czech entrepreneur, and was relying on antiquated equipment and piping. KPS was approached to provide a reliable long-term solution.

Problem

When bought, the island was fitted with old obsolete equipment, requiring complete rebuilding including replacing previously installed corroding steel piping and extending and building new jetties.

When a fuel delivery ship arrived at the designated jetty, fuel needed to be transported to the storage facility at the centre of the island (red line on image, approx. 500m away). From here, fuel needed to be distributed to two other jetties to refuel boats (blue line on image, approx. 800m from centre of island). As this was the island's only energy source, a very reliable solution was required. Equipment installed would have constant exposure to saltwater, need to be safe in case of sparks generated when delivering fuel and allow no fuel to permeate into the ground, protecting the scenic local flora and fauna. Due to the large amounts of piping, easy installation was key.



Island overview with fuel delivery jetty (red) fuel storage (box in centre) and refuelling jetty (blue)



Unwrapping the KPS 75/63SCEC double wall fuel coil for the new fuel line



Fuel delivery jetty: piping has constant exposure to saltwater



Installer friendly KPS piping allowed for quick easy installation



Fuelling lines running from jetty to storage point



Refuelling lines running from storage point to jetty

Solution

KPS piping provided a safe easy-install solution requiring the minimum possible number of welds (KPS double wall piping requires less welds than any other system available). Double wall 125/110 conductive pipe carries fuel from the delivery jetty to storage, then double wall 75/63 conductive pipe carries fuel to refuelling jetties.

Piping is installed on hanging mounts below jetties allow an efficient fuelling process. The double wall piping ensures no permeation of fuel into surrounding environment. KPS pipe is completely un-reactive to saltwater, eliminating the risk of deterioration with constant exposure. Conductivity ensures safe grounding in the event of sparks or static electricity generated while fuelling.



Installed piping from fuelling jetty to storage tanks ready for burial

Results

Installation went smoothly and finished on schedule. Now the island and holiday resort have a reliable discreet energy source with no danger to surrounding wildlife.



Fuelling lines run below jetty from ship to storage point



KPS piping is impervious to corrosion from saltwater

For more information on the OPW product range please contact us:

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