

Innovative integration LNG regasification



*José Manuel Mayo (left), process co-ordinator,
and Augusto Bulte, proposal manager,
both from our Madrid operation.*

Our Madrid-based operation has carried out a study for Castle Peak Power Co Ltd (CAPCO)

for the integration of an LNG receiving terminal with a combined cycle power plant in Hong Kong.

and power



Our Spanish team has a long track record in LNG terminals, with more than 20 projects completed to date, and also has expertise in the integration of LNG terminals with power plants. CAPCO is expanding its LNG terminal and power plant and wants to integrate the new facilities in order to enhance the efficiency of the combined cycle power plant.

The proposed integration scheme is innovative and targets the thermal processes. It delivers benefits by using cold process fluids from the LNG regasification terminal to increase the electrical production from the combined cycle plant through the supplemental cooling of the gas turbine air inlet. Air inlet cooling is a well-established method of augmenting gas turbine power.

This integration is challenging, because of the size of the LNG facilities, and the equipment to be installed is highly specialised; special LNG vaporisers, sea water exchangers and air coolers in the gas turbines.