

**INMAR** for safe transport of  
key power conversion material for  
**Saudi Electricity Company.**

Module Weight: **13,380 FRT**

Route: Masan, **South Korea & Japan** to **Jubail, KSA.**

Scope & Expertise: **Safe loading, Stowing,**

Transportation Vessels : **New Legend Ruby, Hyundai  
Dubai, AAL Pusan, Fanja**



## Qassim II & III Power Plant Project – Jubail, KSA

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The Saudi Electricity Company was entrusted with the conversion of the existing Qassim II & III Simple Power Plant to Combined Cycle Power Plant. A complete Detail Engineering of combined cycle conversion work (Mechanical, Electrical, Civil and I & C) including relocation work of existing open cycle system.

The scope also included necessary modification on protection, control, communication, SCADA at the existing 380KV Substation and also the installation of the associated 380kV underground cable.

**INMAR** was approached to transport the required heavy cargo that were sourced from different continents to be safely shipped to Jubail for the project.



### Cargo

Combined Cycle Power Plant consisting of Three blocks, each with:

- Steam Turbine
- Turbine Generator
- Vertical Type HRSGs modules
- Air Cooled Condenser
- The HRSG modules that provide the thermodynamic link between the gas turbines and steam turbines in a combined-cycle power plant.





### **Challenges**

The modules were very heavy – in this shipment, the heaviest weighed 220 mt.

The cargo was fragile and required special handling during lifting and lashing.

The complete cargo was to be stowed under the deck.



### Solution

The required cargo for this project was moved in 4 different lots from Masan, Korea and Yokohama, Japan to Jubail, KSA

We transported a total of 24 HRSG modules each weighing about 220 tons each from Korea; and generators, Air Cooler condenser, Turbine, pressure gauge, pressure transmitter, cables, dehumidifier and Steam strainer from Japan.

The remainder of the cargo, 36 heat recovery steam generator (HRSG) modules and general cargo were taken on board by 3 premium heavy lift vessels In the market, **m/v New Legend Ruby**, **m/v Hyundai Dubai** and **m/v AAL Pusan** in Masan, S. Korea to Jubail. KSA.

The gas turbines and steam turbines were transported by heavy-lift carrier **m/v Fanja** from Yokohama, Japan to Jubail KSA.

