



## FUTURE PIPE INDUSTRIES

Complete Pipe System Solutions

### PROJECT NAME

Combined Cycle Power Plant

### LOCATION

Zehrani & Beddawi - Lebanon

### COMPLETION DATE

1997

### END USER

Electricite Du Liban - EDL

### CONTRACTOR

Siemens – Germany

Ansaldo Energia spa - Italy

### CONSULTANT

Electricite De France - France

### PIPE SYSTEM UTILITY

Applications for pipes included:

- |  |                        |
|--|------------------------|
| • Seawater Intake (onshore / offshore) | Diameter 2500mm        |
| • Seawater Cooling Lines               | Diameter 1500 – 2500mm |
| • Brine Discharge (onshore / offshore) | Diameter 2200mm        |
| • Sewer / Structural manholes          | Diameter 1500mm        |
| • Piping system of desalination unit   | Diameter 80 – 500mm    |

### DESCRIPTION

The principal two Gas/combined cycle power stations that were built in Lebanon after the war. These stations, each with a capacity of 450 MW, will be operating initially on diesel fuel and will eventually be changed into gas in order to safeguard the environment.

### SCOPE

Our scope included a single point responsibility (SPR) for the complete requirements of the piping systems:

- Surge & Stress analysis, preparation of isometrics, bill of materials & Spool drawings
- Manufacture & delivery of pipes & fittings
- Site installation supervision
- Pipe system hydrostatic testing

### ADVANTAGES

FPI's complete range of high quality certified GRP products and the services given by its personnel contributed to FPI being awarded this project. Close coordination between FPI's engineers and the client insured smooth production and delivery activities of all the required pipes and custom made spools. The close location of the plants with respect to the sites resulted in significant savings on transportation costs to the client.

