



## **FUTURE PIPE INDUSTRIES B.V.**

Glassfiber Reinforced Pipe Systems

**Fire mains, Cooling water, Caissons, Oily water, Potable water  
Tjeldstø, Norway**

### **Location**

Tjeldstø, Norway

### **Completed date**

1987-present

### **End User**

Norsk Hydro, Norway

### **Contractors**

Kvaerner  
Veidekke



### **Consultants**

Norconsult A/S  
Raytheon Engineers & Constructors B.V.

### **Description**

The Norsk Hydro Sture Terminal is a crude oil terminal which acts as a storage facility for many major platforms. Since this plant has been built in 1987, a lot of glassfiber reinforced epoxy has been supplied for aboveground and underground applications. From the start and for all the extensions, GRE has been used for the seawater systems. Noteworthy for this plant were the 1200 mm diameter caissons inside the oil caverns which have also been supplied in GRE.

### **Scope**

Our scope included:

- Engineering
- Fabrication
- Supervision

### **Pipe System**

Several pipe systems have been supplied ranging from 50mm to 1200mm. As well as conductive (aboveground) and non-conductive (underground) lines have been supplied in 20 bar applications.

### **Advantages**

The corrosion resistance of GRE was the main argument to use this material from the start.