



- **Project : Hadath Desalination Plant**
- **Client: Beirut and Mount Lebanon Water Establishment**
- **Contractor: ARISON s.a.r.l.**

# PLANT DESCRIPTION

1. **Flow Rate: 5,000 m<sup>3</sup>/day (Two Trains, each having a capacity of 2,500 m<sup>3</sup>/day)**
2. **Water Salinity Range : 1,500 -10,000 ppm**
3. **Recovery Data: 70%**
4. **Feed Flow Rate: 360 m<sup>3</sup>/hr (180 m<sup>3</sup>/hr / Train)**
5. **R.O. Feed Production : 250 m<sup>3</sup>/hr (125 m<sup>3</sup>/hr / Train)**
6. **Working Hour/Day: 20 Hrs**
7. **Total Power Consumption: 520 Kw (260 Kw / Train)**



# DESIGN MEASURES MADE TO REDUCE POWER CONSUMPTION

1. Use of Variable Frequency Drives
2. Use of High efficiency motors (IE3)
3. Selection of Pumps having high efficiency
4. Selection of Diesel Engines with common rail technology to reduce fuel consumption
5. Use of Two Trains to cope with water demand







# Thank You