Greater Istanbul Water Supply, II. Stage Project Yesilcay System. Kurfalli (Isaköy) pumping station.
Supplying the teeming metropolis of Istanbul with sufficient water has challenged the city’s authorities since ancient times.

For the future water supplies to Istanbul, the Yesilcay river project will deliver 145 million cubic meters a year (m³/y) to the new treatment plants at Emerli which have capacity of 600,000 m³/d.

The Kurfalli pumping station as part of the Yesilcay project is located in the province of Anatolia on the eastern side of the Bosphorus, about 60km from Istanbul, close to the Black Sea.

The Kurfalli pumping station raises water about 200m, which will then flow by gravity into the city. The pumping capacity of the pumping station is 12 m³/s.

ABB was member of a project consortium. Within the consortium ABB Germany was responsible for civil, mechanical and electrical works on a turnkey basis.

Enduser: Directorate of State Hydraulic Works (DSI), Ankara, Turkey.

The project was completed in May 2003.
Technical Specification / ABB Scope

Kurfalli Pumping Station

- 2x pumps each rated 2700 m³/hr, head 203m
- 8x pumps each rated 6300 m³/hr, head 203m
- 12x 11kV switchgear cubicles
- 2x 2.5MW 11kV motors
- 8x 5MW 11 kV motors
- 4x drive speed regulation using slip recovery system
- 20x 400V switchgear and MCC cubicles
- Control and supervisory equipment
- Mimic panel
- Low voltage bus duct
- Instrumentation
- Power factor correction equipment
- Cabling including fiber optic cables
- Erection supervision
- Commissioning

Note:
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents - in whole or in parts - is forbidden without prior written consent of ABB AG.

Copyright© 2010 ABB
All rights reserved

For more information please contact:

ABB AG
Power Systems
P.O. Box 10 03 51
68128 Mannheim, Germany
Phone:  +49 621 381 30 00
Fax: +49 621 381 26 45
E-mail: powertech@de.abb.com