IM Maggia Engineering SA
Via Stefano Franscini 5
Casella postale 46
CH-6601 Locarno 1
Tel. +41 91 756 68 11
info@im-maggia.ch
www.im-maggia.ch

Trabzon (Turkey): New Hydroelectric Power Plant Büyükdüz

Bauherr
Ayen Energy Co. Inc., Ankara / Turkey

Projektierung
IM Maggia Engineering Ltd

Zeitraum
2008–2012

Baukosten
€ 80 million

Leistungen
Feasibility study, construction design, tender documents, realisation and project supervision, workshop tests, general site supervision

Beschreibung
New construction of a hydroelectric power plant on the Elmali and Tasoba rivers in northeast Turkey (Trabzon region). Construction of two reservoirs for daily compensation with intakes and fish pass, connection galleries, surge tank and forebay, penstock, power house, switchyard and transmission line.

Hauptdaten
- 2 reservoirs, intakes and desanders on the Elmali and Tasoba rivers with fish pass
- Gallery lengthtotal = 12 km, Ø 4 m
- Surge tank with forebay
- Penstock DN2000, L = 1690 m in welded steel
- Powerhouse:
  - QA = 16 m³/s
  - HN = 500 m
  - PA = 70 MW
- 2 6-jet vertical Pelton turbines
- 2 spherical valves DN1000, PN64
- 2 generators 35 MVA
- 2 closed circuit cooling water systems
- 2 transformer units
- Switchyard





