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# Trabzon (Turkey): New Hydroelectric Power Plant Büyükdüz

## Committente

Ayen Energy Co. Inc., Ankara / Turkey

# **Progettazione**

IM Maggia Engineering Ltd

## Realizzazione

2008-2012

# Costo dell'opera

€ 80 million

#### Prestazioni

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

# Descrizione

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.

# Dati principali

- 2 reservoirs, intakes and desanders on the Elmali and Tasoba rivers with fish
- Gallery lengthtotal = 12 km, Ø 4 m
- Surge tank with forebay
- Penstock DN2000, L = 1690 m in welded
- Powerhouse:
  - $\circ$  QA = 16 m<sup>3</sup>/s
  - HN = 500 mPA = 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





