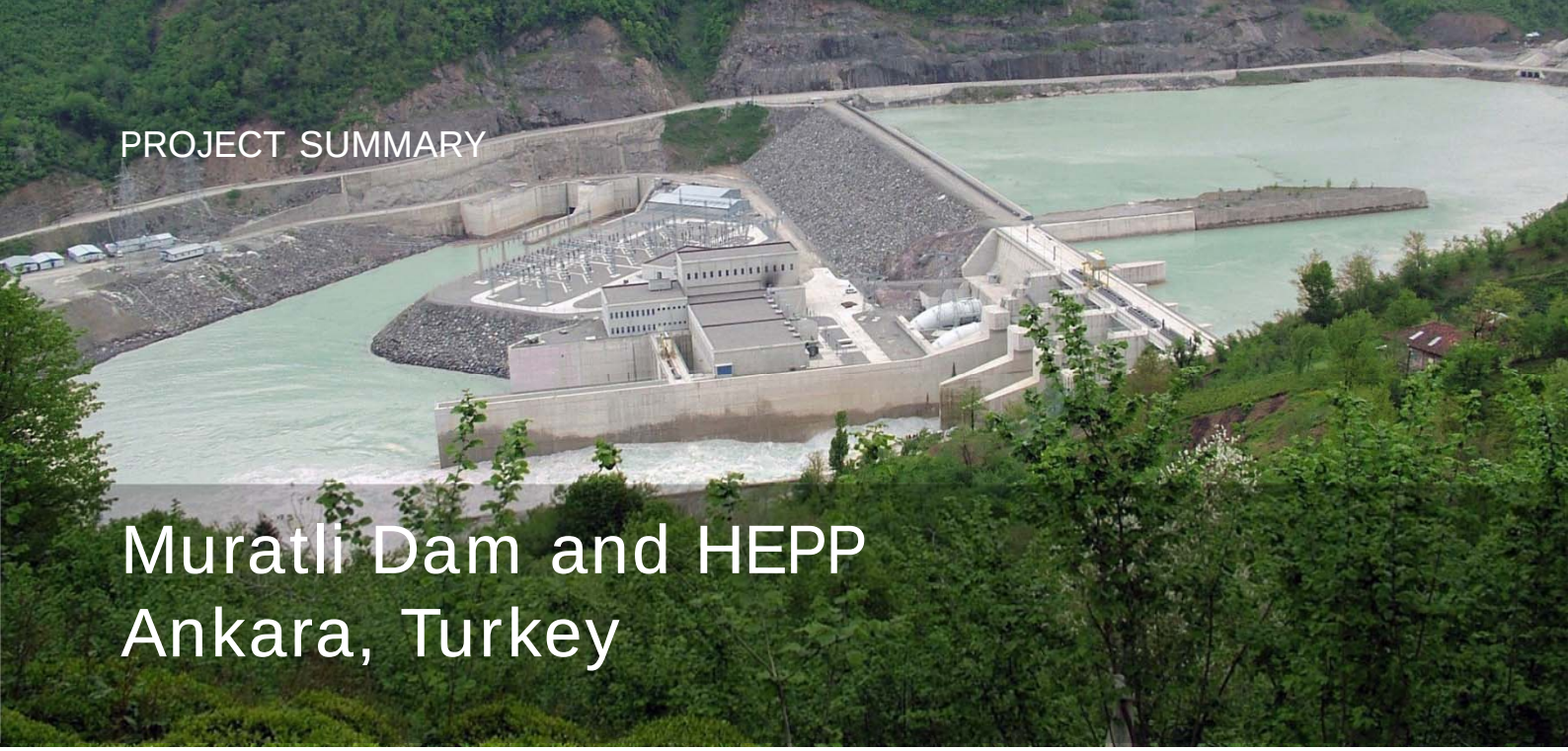

PROJECT SUMMARY

Muratli Dam and HEPP Ankara, Turkey

Project Description

HEPP Muratli is a hydropower plant on the lower reach of the Coruh River, located upstream to the border of Georgia. The power plant is part of the Coruh River basin development scheme which consists of eleven stages covering a total length of nearly 250 kilometers of Coruh River.

Coruh River is dammed up by a 44 m high embankment dam with an asphalt facing to a reservoir with a total storage capacity of 75 million m³ and an active storage capacity of 20 million m³ between max. reservoir level el.+96.00m and min. operation level el.+91.00m.

The power plant is equipped with two generating sets of 57.5 MW capacity each. The annual energy generation is 445 million kWh.

Asphalt Faced Embankment Dam (AFED):

- Fill volume: 3.0 million m³
- Crest length: 240.0 m
- Dam height: 44.0 m

Spillway (4 overflow sections):

- Crest length: 4x16 m
- Radial gates w/h = 16/18 m
- Capacity: 10 961 m³

Client

Devlet su Isleri (DSI)

Project

Muratlı Dam and HEPP

Services

AFRY Austria carried out a review of the Final Design project. In the next stage, the Guideline and Detail Design were carried out.

Comprehensive geological survey/mapping and site investigation campaigns were carried out in several project stages.

AFRY engineers provided high-level consultancy services for the application of construction material (concrete, asphalt, etc.).

In addition to design services, site supervision and the coordination of civil construction and HEM erection were also included within provided services.

Execution Period

1999 – 2005