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# UGS Storage Project TUZ GÖLÜ

Tuz= salt = Salz

Gölü = lake = See

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**BOTAŞ GENEL MÜDÜRLÜĞÜ**  
**DOĞAL GAZ VE PETROL BORU HATLARI**



ARAZİ ETÜD VE KAMULAŞTIRMA D. BŞK. LİĞİ

MEVCUT DOĞAL GAZ BORU HATLARI

— INŞAAT AŞAMASINDAKİ DOĞAL GAZ BORU HATTI  
—

MEVCUT PETROL BORU HATLARI

— PROJE VE YAPIM İHALESİ AŞAMASINDAKİ PETROL BORU HATLARI  
—

CS (KOMPRESÖR İSTASYONLARI)

▲ İNŞAAT AŞAMASINDAKİ KOMPRESÖR İST.  
▲ İHALE AŞAMASINDAKİ KOMPRESÖR İST.

LNG

● PETROL BORU HATTI POMPA İSTASYONU  
● BORU ÇAPİ

MEVCUT GAZ İTHALİ

→ KONTRATA BAĞLANMIŞ GAZ MİKTARI  
→ PLANLANAN GAZ MİKTARI

— PROJE AŞAMASINDAKİ TÜRKİYE - AVUSTURYA DOĞAL GAZ BORU HATTI

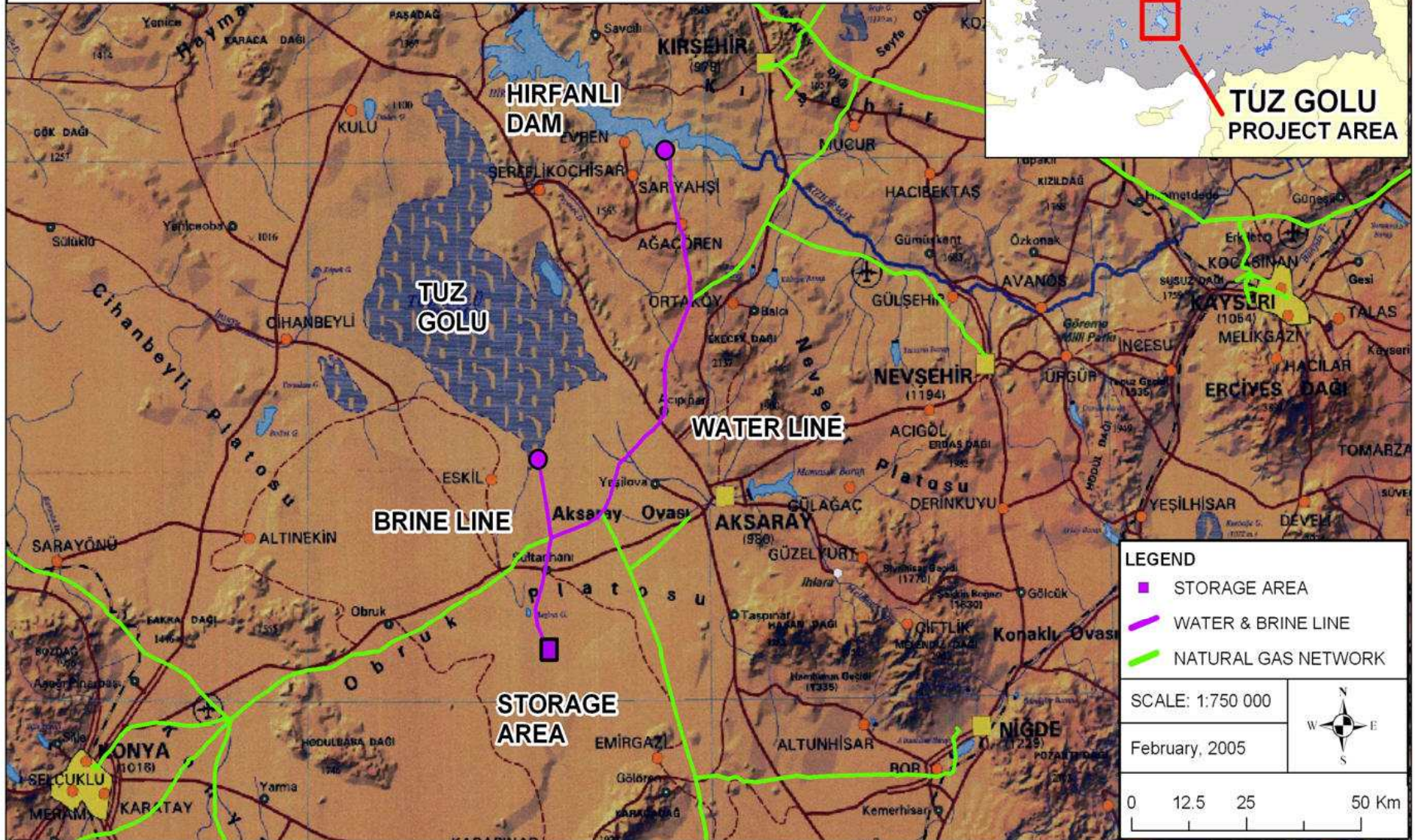


# BOTAŞ PETROLEUM PIPELINE COMPANY

## TUZ GOLU NATURAL GAS STORAGE PROJECT



**TUZ GOLU  
PROJECT AREA**



### Water supply pipeline

- 120 km, with 3 pump stations, 5 reservoirs
- Steel
- from Hirfanli Dam reservoir

### Brine discharge pipeline

- 40 km
- glass reinforced plastic

### 12 Caverns

- at the depth of 1100-1400 m
- physical volume of app. 630.000 m<sup>3</sup>
- total working gas volume app. 1 billion m<sup>3</sup>

## Data

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Storage Parameters: Initial Construction Stage – 6 Caverns	
Injection rate into each cavern, max.	137.000 Nm <sup>3</sup> /h
Injection rate into 12 caverns, max.	876.820 Nm <sup>3</sup> /h
Withdrawal rate from each cavern, max.	237.000 Nm <sup>3</sup> /h
Withdrawal rate from 12 caverns, max.	1.564.000 Nm <sup>3</sup> /h
Station Inlet and Outlet Conditions	
Pipeline Pressure	40 – 75 barg
Injection Pressure	73 – 200 barg

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## General data

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■ Estd. project duration:	10 years
■ 2 construction stages:	2 x 6 caverns
■ World Bank financing:	
■ Category	Loan (US\$ million)
■ 1. Goods (including supply and installation)	286.1875
■ 2. Consultants'services	9.0
■ 3. Cushion Gas	27.0
■ 4. Front-end Fee	0.8125
■ 5. Premia for Interest Rate Caps and Interest	0.0
■ 6. Unallocated	2.0
■ Total	325.0

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