

**HEATING UP THE SURFACE
SINCE 2004**



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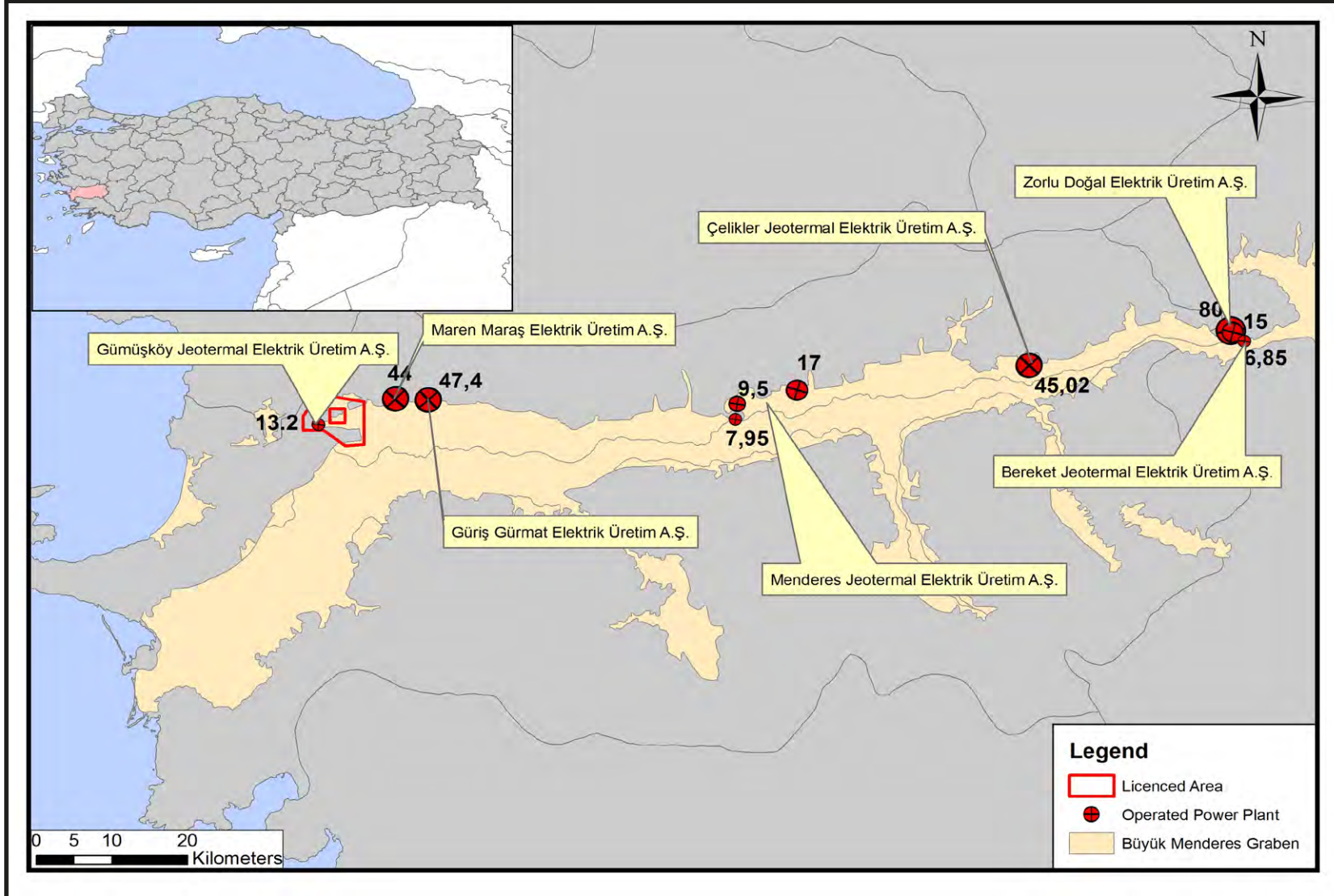


- In-house expert team
- 550,000 ha. survey area completed in 5 years.
- 11 reservoir discoveries.
- 5 high-enthalpy reservoirs for energy generation.
- 1 operational, 2 under construction GEPPs



GÜMÜŞKÖY GEPP

LOCATION



License Area:
5000ha

Discovery Date:
June 2008

License Validity:
2046

GÜMÜŞKÖY GEPP

VITAL STATICS



System Supplier	TAS Energy Inc., USA
System Type	ORC (Organic Rankine Cycle)
Reservoir Depth	1250 - 1500 m, 1800-2100 m
Reservoir Temperature	182 °C
Installed Power	13,2 MWe
Annual Generation	105 GWh (gross), 77 GWh (net)
Annual CO₂ Production	38,000 t/year

DEBT/EQUITY 70:30

EBRD MidSEFF \$24,9 M

Lease Finance \$9,6 M

Equity \$15 M

GÜMÜŞKÖY GEPP

CSP HYBRID PROJECT



Supported by the Scientific and Technological Research Council of Turkey (TÜBİTAK)

Pilot Facility

Hybrid geothermal-solar thermal energy system with 200 kW capacity

Project

1,5 MWe CSP solar field hybridization to existing 13,2 MWe ORC system

System

Parabolic Trough Collector



PRIVATE SECTOR

PUBLIC SUBSIDIES

FINANCING

PHASE

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

Exploration Phase

Reservoir
Development

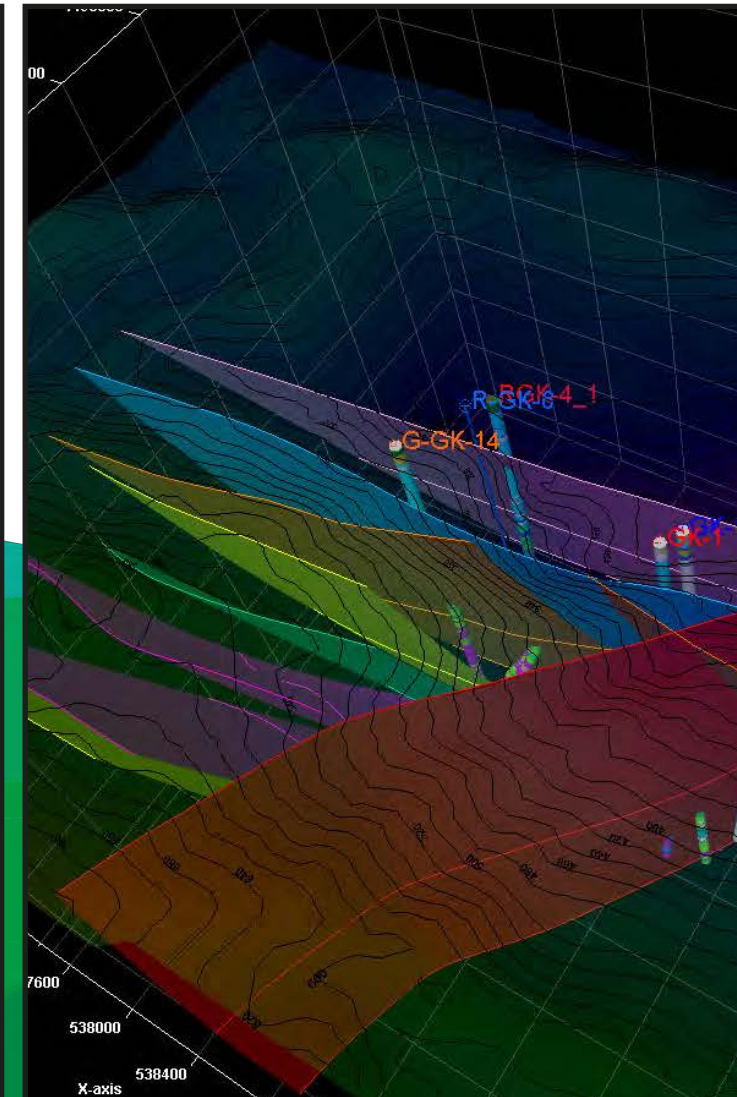
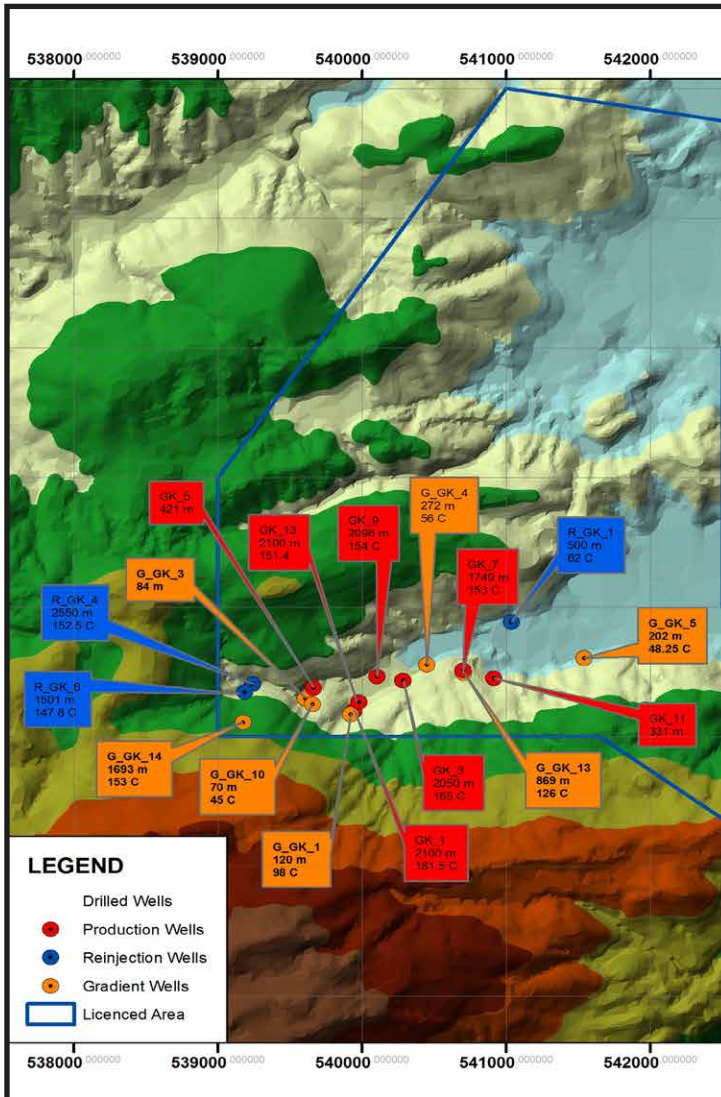
Feasibility

Detailed Design &
Construction

Commissioning &
Operation



GEOHERMAL PRIVATE SECTOR RISK MITIGATION



SUGGESTED MECHANISMS

1. AUTHORIZED CENTRAL INSTITUTION
2. IMPORT REGULATIONS
3. LICENSE AREA & SHAPES
4. DATA BANKS
5. DRILLING INSURANCE / SUBSIDIES



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