

STATE OIL COMPANY OF AZERBAIJAN



C. Güvenç Ogulgönen
Process Development Eng.



SOCAR GLOBAL



51 thousand
Approximate number of employees



7.7 million tons
Oil production in 2018
Total Azerbaijan production: 37.5 million tons



6.8 billion m³
Natural gas production in 2019
Total Azerbaijan production: 35.6 billion m³



7 billion barrels
Proven oil reserves in Azerbaijan



2.6 trillion m³
Proven natural gas reserves in Azerbaijan

SOCAR's Global Activities



EXPLORATION

- Absheron
- Bulla Deniz
- Umid
- Zafar- Mashal
- Shafag-Asiman
- Babek
- Garabagh
- Ashrafi-Dan Ulduzu-Aypara
- D230



PRODUCTION

- Azeri-Chirag-Gunashli (ACG)
- Bahar Gum Deniz
- Binegedi
- Kurovdagh
- Kursengi and Garabaghli
- Mishovdagh Kelameddin
- Muradkhanli, Jafari and Zardab
- Neftchala
- Pirsahhat
- Ramany
- Shahdeniz
- Surakhany
- South West Gobustan
- Zigh and Hovsan



REFINING

- Gas Processing Plant
- Heydar Aliyev Oil Refinery
- STAR Refinery



PETROCHEMICALS

- Azerikimya Production Union
- Petkim
- SOCAR Carbamide
- Polypropylene Factory
- High Density Polyethylene Factory
- SOCAR Methanol



TRANSPORTATION

- Baku Novorossiysk Oil Pipeline
- Baku Supsa Oil Pipeline
- Baku-Tbilisi-Ceyhan Oil Pipeline (BTC)
- South Caucasus Natural Gas Pipeline
- TANAP
- TAP
- Dubendi Terminal
- Kulevi Terminal
- SOCAR Terminal



SERVICES

- Azerigas Production Union
- SOCAR Energy Ukraine
- SOCAR Georgia Gas
- SOCAR Georgia Petroleum
- SOCAR Petroleum
- SOCAR Petroleum SA Romania
- SOCAR Trading
- SOCAR Turkey Natural Gas Investment
- SOCAR Energy Switzerland
- A1 and Pronto Oil in Austria

IZMIR, ALIAGA PENINSULA INTEGRATED ENERGY INVESTMENTS

SOCAR TURKEY


SOCAR aims to increase its total investments to USD 19.5 billion by 2020, by which time it plans to be one of Turkey's largest industrial powers.

Structure of SOCAR Turkey Operations

PETKİM	Turkey's first and only petrochemicals producer
STAR REFINERY	Producer of diesel, jet fuel, LPG and naphtha
TANAP	The Trans-Anatolian Natural Gas Pipeline Project, that will carry natural gas to Turkey and to Europe via Turkey
SOCAR TERMINAL	The largest container port in the Aegean Region
SOCAR Natural Gas	Natural gas trading, electricity supply, trading and wholesale
SOCAR Energy Trading	Natural gas and electric distribution company
SOCAR FIBER	Fiber optic line investment for electronic communications
SOCAR STORAGE	Storage and operation
PETKİM WPP	Wind Power Plant
SCR	Real estate construction and consultancy
Bursagaz	Serving more than 1 million subscribers in 11 districts of Bursa
Kayserigaz	Serving more than 500 thousand subscribers in 10 districts of Kayseri
Millenicom	Turkey's Alternative Telecommunication Company
Enervis	Energy efficiency and renewable energy

PETKİM


With more than 50 years history, Petkim represents a giant production power which is of strategic importance for Turkey's economy and industry.


Turkey's only integrated petrochemical plant.

Annual gross production capacity

3.6 M TONS


Indispensable supplier of industry with nearly 60 petrochemical products

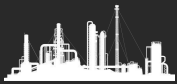
 2019 first half
5.9 billion TL net sales
439 million TL net profit

The coverage ratio of Turkey's petrochemical needs
%20

Shareholding structure
 **51% SOCAR Turkey**
49% Public

Direct and indirect employment
 **2250**





A new aromatics and PTA production plant

1.250.000 tons/year

SOCAR Turkey and BP signed a Heads of Agreement for the possibility of forming a business partnership with the purpose of establishing and operating a petrochemical complex in Aliağa, which will allow the integrated use of raw materials produced at the STAR Refinery and the Petkim petrochemicals complex.

Business Age / Public

STAR REFINERY

STAR Refinery, which is one of the largest oil operations in the region, started operations in 2018 and produces petroleum products such as naphtha, diesel, jet fuel and LPG.

Largest real sector investment made to a single point in Turkey's history

\$ 6.3 B USD
Investment cost

Configuration
High Conversion

Storage capacity
1.64 million m³

19500 EMPLOYEES
During the peak period of construction, 19,500 people were employed

Refinery complexity
9.4

1.5 BILLION DOLLARS
\$ 1.5 billion annual contribution to reducing the current account deficit in Turkey

Capacity
10 million tons / year
(214,000 barrels / day)

Crude oil processing range
28-36 API

Shareholding structure
60% SOCAR Turkey
40% Ministry of Economy of the Republic of Azerbaijan



TANAP

The most important link of the Southern Gas Corridor

TRANS ANATOLIAN NATURAL GAS PIPELINE

Europe and Turkey's growing energy demand and security of supply major contribution to the project, which is positioning among the most powerful players in the global energy arena Azerbaijan and Turkey.

- Main line length: 1850 km
- Investment cost: 6.5 Billion Dollars
- The highest point of the pipeline: 2760 m
- The deepest point of the pipeline: 65 m
- Passing the Dardanelles Strait: 19 km
- Direct and indirect employment: 15000
- Number of cities on the TANAP route: 20
- The ratio of Turkey's natural gas needs: %12
- Shareholding Structure: 51% SOCAR, 30% BOTAŞ, 12% BP, SOCAR Turkey 7%

PETKİM RES

Petkim Wind Power Plant

Increases Petkim's energy security.
Reduces energy costs in production costs.

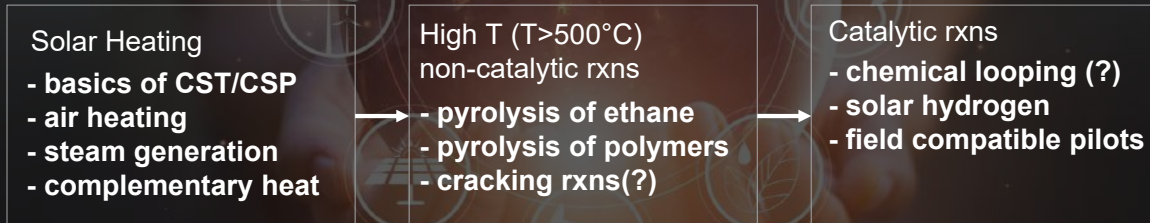
- Investment cost: 55 Million Euros
- Total installed capacity: 51 MW
- Number of Turbines: First phase 9, second phase 8, total 17

Current R&D Case

R&D and Innovation Center as a separate entity

Planned to do R&D for all SOCAR subsidiaries

Consists of process and product development groups (possibly more)



Enervis

Kay 1-2-3 Solar Power Plants

- Turnkey EPC service
- International product supply
- Embankment ground and special drilling works
- Construction erection with screw system
- Special manufacturing transformers
- 60 staff on field and office
- Camera and security system (24 hours)
- Production and performance tracking (365 days)
- Operation and maintenance services

Project Budget	Total Installed Power	Plant Location
2.7 M \$	3248 kWp	İncesu/Kayseri
Total Construction Area	Solar Panels	Project Duration
52000 m ²	12492 pc.	4 months

Enervis

Kay 1-2-3 SPP Operations & Maintenance Services

- Field and production tracking with remote access
- Monthly activity report
- Detailed performance measurements
- Daily production analysis
- Daily failure / downtime tracking
- Periodic field visits
- Periodic maintenance on 3rd and 6th months
- Detailed electrical / mechanical maintenance services
- Solar panel and field cleaning



Service Fee

1000
\$/MW/month



Inverters
(Kaco)

48 pc.

