

# At 1,850 km, the TANAP pipeline project is the largest section of the Southern Gas corridor which stretches over 3,500 km, bringing Azerbaijan's natural gas to Europe for the first time

ABB delivering integrated telecoms and monitoring, security and control systems to TANAP to control close to 5,000 km of oil and gas pipelines across Azerbaijan, Georgia and Turkey.

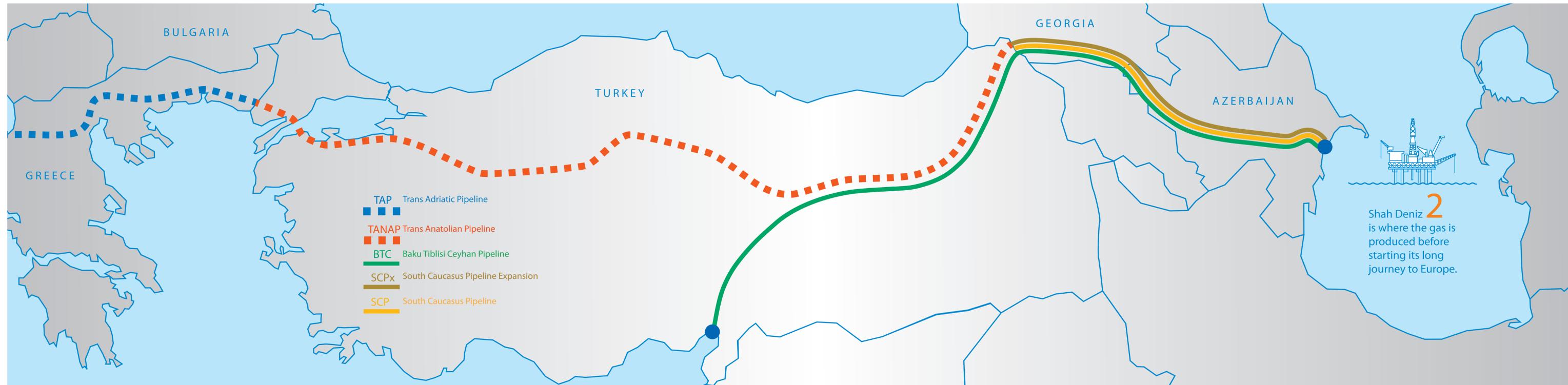
The Southern Gas Corridor projects have a combined investment of **\$45 billion** crossing 7 countries and involving more than 12 major energy companies.

Gas travels along the **691 km** SCP pipeline - controlled by ABB's System 800xA.

Gas will leave Georgia and begin its journey through Turkey via the new **\$11 billion** pipeline.

The gas travels across **20 districts** including a 20 km section under the Sea of Marmara.

TANAP will cross over to the **878 km** TAP pipeline which travels through Greece, Albania and the Adriatic Sea before delivering gas throughout Europe.



## Efficient control of the pipeline

**2** control rooms house ABB's systems which monitor gas flows, detect leakages or intrusion and provide CCTV coverage for safety and security.

ABB will install more than **6,000 km** of fiber-optic cable; further than the distance between London and New York!

ABB will access its engineering pool of over 4000 dedicated oil & gas engineers.

System **800xA**, telecoms infrastructure, pipeline monitoring, security systems and operator training simulator are critical to the pipeline's success.

**80** local equipment rooms are being supplied and built by ABB together with Turkish suppliers.

## Demand for natural gas continues to grow

ABB systems will help secure transport of more than **5%** of Europe's gas demand through pipelines across the region.

If tanker vehicles were used to transport the gas and parked end-to-end they would wrap around the earth's circumference.

**100 times.**

Expected to be complete in **2019** TANAP will deliver 10 BCM of gas per year (Europe's total demand is about 450 BCM per year).

Natural gas has grown tremendously in the global energy mix and today accounts for more than **20%** of global primary fuel consumed.

## Natural gas uses and emissions

Europe is paying **4 times** more than the US and 12 percent more than in China. Diversification of gas sources to Europe may lead to more competitive prices.

Carbon dioxide emissions from natural gas combustion are approximately 30 percent less than oil and 45 percent less than coal.

Gas heats and lights homes and businesses and fuels ships, trucks, buses and trains when converted into different forms. It is also a critical part of many industrial processes, which produce everything from glass and plastics to clothing.