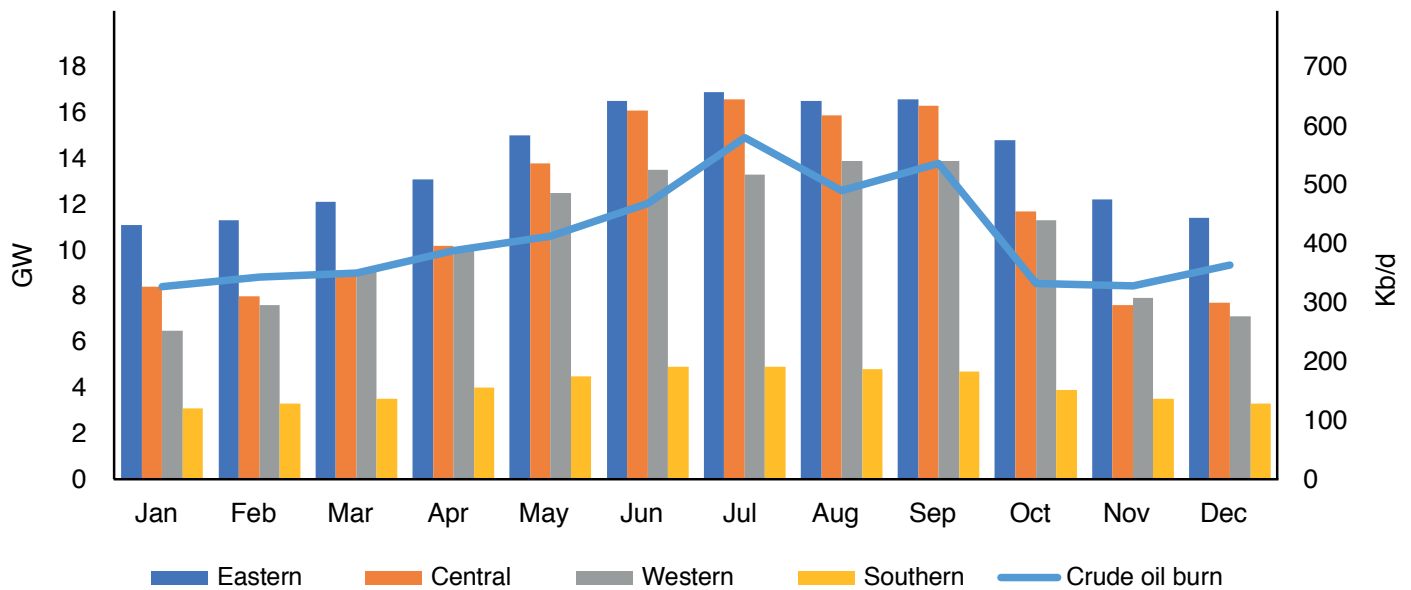


Data Insight

02/04/2020

Crude Oil and Refined Products

Figure 1. Average peak load in Saudi Arabia by region, 2018.



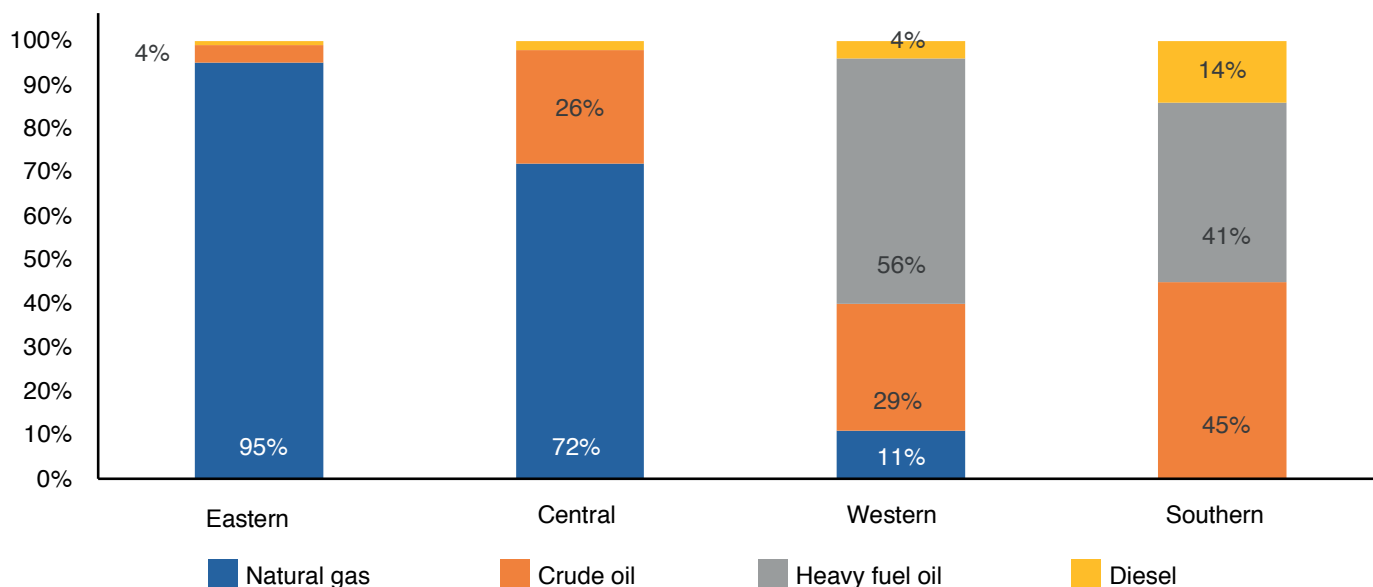
Sources: ECRA; JODI data.

2018 key insights:

- The power sector in Saudi Arabia makes up just over half of the natural gas demand in the Kingdom, followed by the industrial sector and non-energy use as a feedstock for petrochemicals.
- Residential demand accounted for about 44% of electric power consumption in Saudi Arabia in 2018. Space cooling is the main driver for consumption, which contributes 65% of total residential demand.
- Therefore, power consumption is highly seasonal, peaking during the summer months, from April through October. The Central, Eastern and Western regions show relatively higher power load than the Southern region due to higher concentration of population and industrial activity in those areas.
- Given their proximity to gas fields, natural gas in the Eastern and Central regions is the main fuel source for power generation. The fuel mix in the Western and Southern regions, on the other hand, consists predominantly of liquid fuels. Almost 88% of crude oil and oil products consumption for power and water desalination in Saudi Arabia is concentrated in the Western and Southern regions.

- Aramco plans to expand the existing Master Gas System from 9.6 billion standard cubic feet per day (scfd) in 2018 to 12.5 billion scfd in 2020 to deliver more gas in the Central and Western regions, in order to displace liquid fuels and meet utility and industrial demand.

Figure 2. Fuel mix for power generation by region in 2018.



Source: ECRA.

Sources:

- [Joint Organizations Data Initiative](#)
- [Electricity and Cogeneration Regulatory Authority \(Fuel Mix\)](#)
- [Electricity and Cogeneration Regulatory Authority \(Peak Load\)](#)

Authors: Rami Shabaneh, Abdullah Aldayel