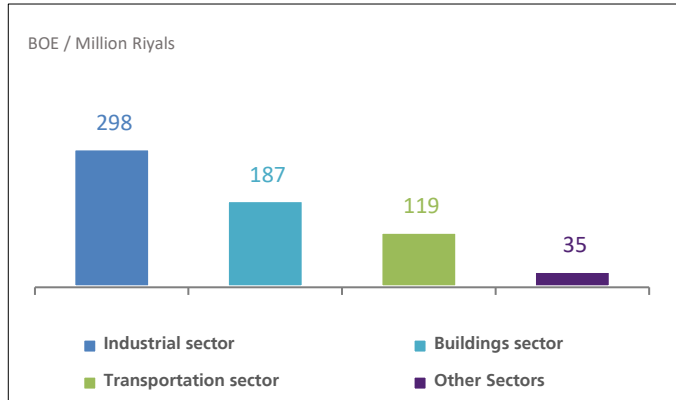


Energy Consumption Intensity decreases by 2.74% in 2021

Total energy consumption intensity decreased by 2.74% compared to 2020 to reach 639 barrel of oil equivalent per million riyals (BOE/million riyals), representing multiple sectors (industry, transportation, buildings, and other sectors). The energy consumption intensity in the industrial sector amounted to 298 BOE/ million riyals, which is a decrease by 4.79% compared to 2020, followed by the buildings sector with a decrease of 1.58%, while the transportation sector's energy consumption intensity increased by 1.71%, to reach 119 BOE/ million riyals (Figure 1)

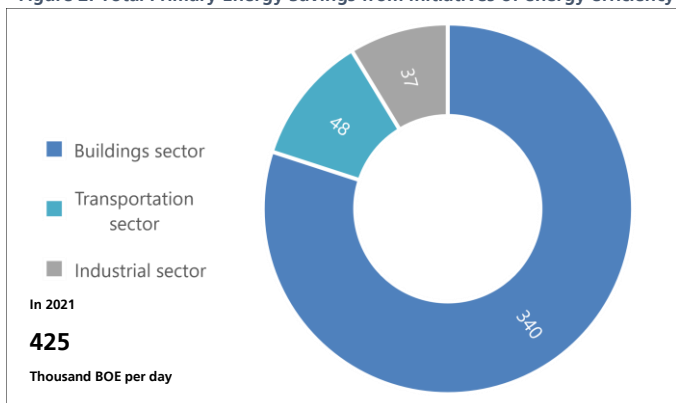
Figure 1. Energy Consumption Intensity by Sectors in 2021



Primary Energy Savings from the initiatives of energy efficiency

The total savings in primary energy from energy efficiency initiatives increased by 19.05% compared to 2020 to reach 425 thousand barrel of oil equivalent per day (BOE/day). The savings in the buildings sector amounted to 340 thousand BOE per day, while it reached 48 thousand BOE per day in the transportation sector, and 37 thousand BOE per day in the industrial sector (Figure 2).

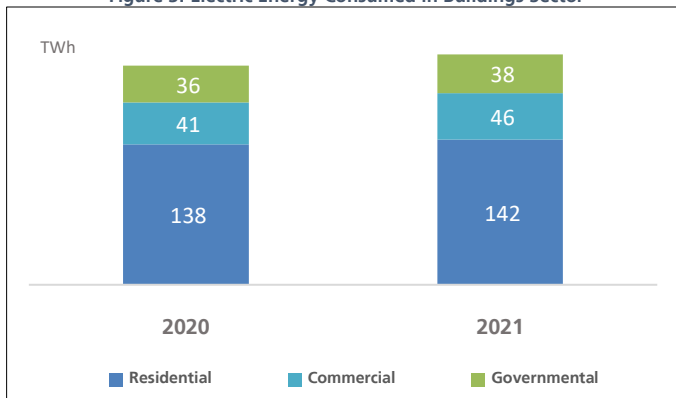
Figure 2. Total Primary Energy Savings from initiatives of energy efficiency



Efficiency of Electric Energy Consumption in Buildings Sector

The consumption of electric energy in the buildings sector (residential, commercial, and government sectors) increased to 226 TWh, also the number of subscriber increased to reach 10,382,748 subscribers with a consumption rate of 21.78 MWh per subscriber, compared to 2020 (Figure 3).

Figure 3. Electric Energy Consumed in Buildings Sector



Efficiency of Electric Energy Consumption in Residential Sector

Consumption of electric energy in the residential sector was 16.92 MWh per subscriber, with a decrease of 0.92%, compared to 2020 (Figure 4).

Efficiency of Electric Energy Consumption in Commercial Sector

Electric energy consumption rate in the commercial sector increased to 27.17 MWh per subscriber, which corresponds to an increase of the consumption rate per subscriber by 9.91% compared to 2020 (Figure 4).

Efficiency of Electric Energy Consumption in Government Sector

Electricity consumption rate increased by approximately 133.49 MWh per subscriber in the government sector, with an increase of 5.19% compared to 2020 (Figure 4).

Figure 4. Electric Energy Consumption Rate at Sector Level

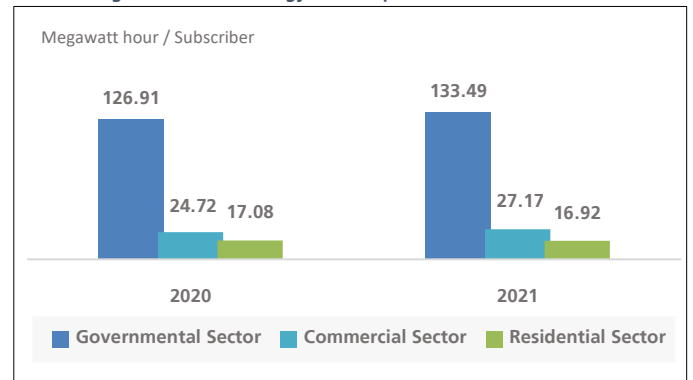


Table 1. Main Indicators of Energy Efficiency Statistic

Indicators	Unit	2020	2021
Energy Consumption Intensity	BOE Per Million Riyals	657	639
Primary Energy Savings from the initiatives of energy efficiency	Thousand BOE per day	357	425
Rate of Electric Energy Consumed in Buildings Sector	MWh Per Subscriber	21.47	21.78
Rate of Electric Energy Consumption in Residential Sector		17.08	16.92
Rate of Electric Energy Consumption in Commercial Sector		24.72	27.17
Rate of Electric Energy Consumption in Governmental Sector		126.91	133.49

Methodology

Energy efficiency statistics publication covers energy data for Saudi Arabia, according to the Standard International Energy Product Classification (SIEC). Administrative records of General Authority for Statistics, Ministry of Energy and Saudi Center for energy efficiency are the main sources for this publication. Data is available in a time series for the period of (2017-2021), accordingly, the periodicity of publication is annual. [Methodology](#).

Source: [Tables](#)