

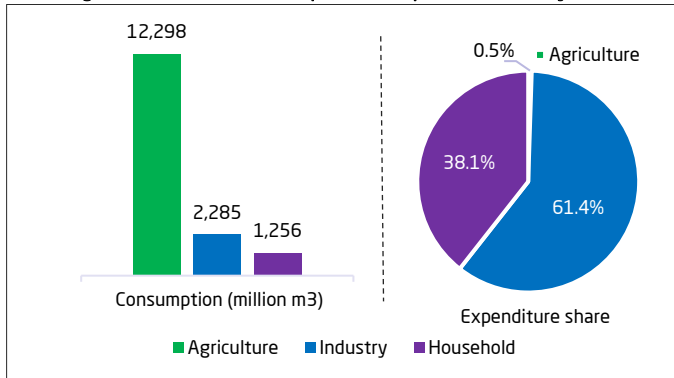
Non-renewable groundwater consumption decreases by 7% in 2023

Saudi Arabia's agriculture consumption of non-renewable groundwater decreased to 9,356 million m³ in 2023, 7% less than the non-renewable groundwater consumption by agriculture in 2022 of 10,044 million m³. Additionally, in reference to the total groundwater abstraction, the renewable groundwater abstraction increased to 21% in 2023 while non-renewable groundwater abstraction decreased by 6% reaching 10,849 million m³. On the other hand, the 2023 produced desalinated water accounted for 50% of the total distributed water supply compared to 44% in 2022. (Table 1)

Water consumption and expenditure share by sector in 2023

Saudi Arabia's agriculture water consumption in 2023 was 12,298 million m³ accounting for the highest water consumption by sector. However, the expenditure share of consumed water for agriculture was 0.5% while industry sector expenditure on used water was the highest in 2023 accounting for 61.4% followed by household's water use expenditure share of 38.1%. (Figure 1)

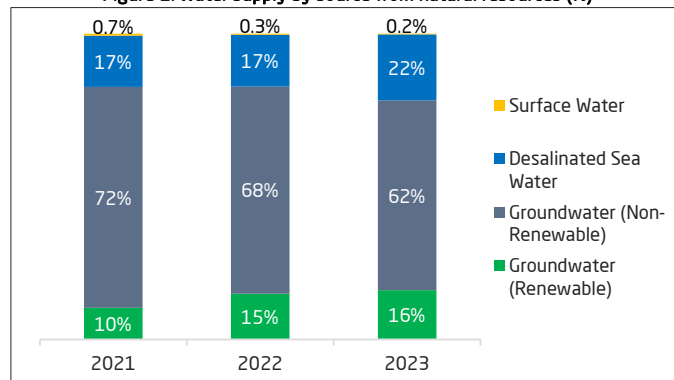
Figure 1: 2023 Water consumption and expenditure share by sector



Water supply by source from natural resources

The supply of desalinated sea water increased by 31% in 2023 accounting for 22% of the total water supply from natural resources, while non-renewable groundwater supply decreased to 62% in 2023 compared to 68% in 2022. (Figure 2)

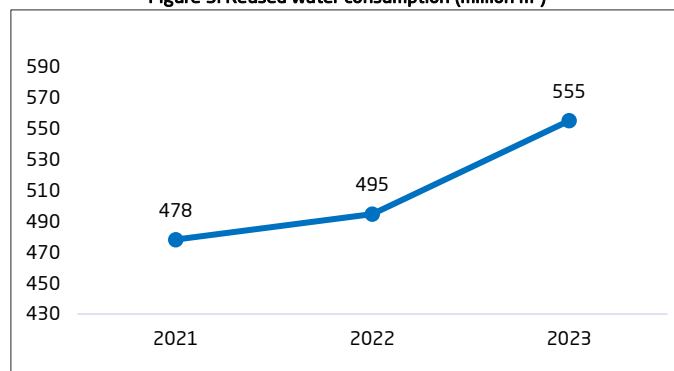
Figure 2: Water supply by source from natural resources (%)



Reused water consumption

Water reuse consumption increased by 12% in 2023 to reach 555 million m³ compared to 495 million m³ in 2022. (Figure 3)

Figure 3: Reused water consumption (million m³)



Water consumption by economic activities

Manufacturing, mining, quarrying and construction industries' water consumption showed an increasing trend over the previous years. However, service and other industries showed a declining water consumption trend over the same period. (Figure 4)

Figure 4: Water consumption by industries (million m³)

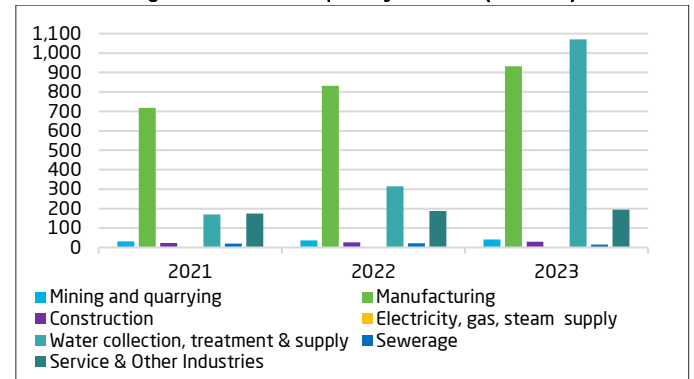


Table 1. key Indicators of Water Accounts

Indicator	Unit	2022	2023
Total water supply from natural resources	Million m ³	17,015	17,493
Non-renewable groundwater supply	Million m ³	11,532	10,849
Renewable groundwater supply	Million m ³	2,542	2,824
Agriculture consumption of non-renewable groundwater	Million m ³	10,044	9,356
Agriculture consumption of reused water	Million m ³	465	525
Total distributed water	Million m ³	6,554	7,537
Share of desalinated water in total distributed water supply	Percentage	44	50
Total water consumption	Million m ³	15,449	15,839
Household's water consumption per capita	L/Day	112.8	102.1
Industry use share of distributed water	Percentage	22	30
Household use share of distributed water	Percentage	20	17
Average weighted expenditure of used water*	SAR/m ³	0.15	0.14

*Average weighted water use expenditure is based on physical and monetary water use

Source: [tables](#).

Reference Metadata

Water accounts publication provides quantitative and monetary water data at the national level for Saudi Arabia following the National Classification of Economic Activities (ISIC4), and the System of Environmental and Economic Accounting International Central Framework (SEEA - Central Framework 2012). The primary sources for this publication are the administrative records from the General Authority for Statistics, Ministry of Environment, Agriculture and Water, Saudi Water Authority, Saudi Authority for Industrial Cities and Technology Zones, Saudi Water Partnership Company, National Water Company and MARAFIQ Company. Data is available in a time series covering the period from 2021 to 2023.

[For more details, refer to the reference metadata report.](#)