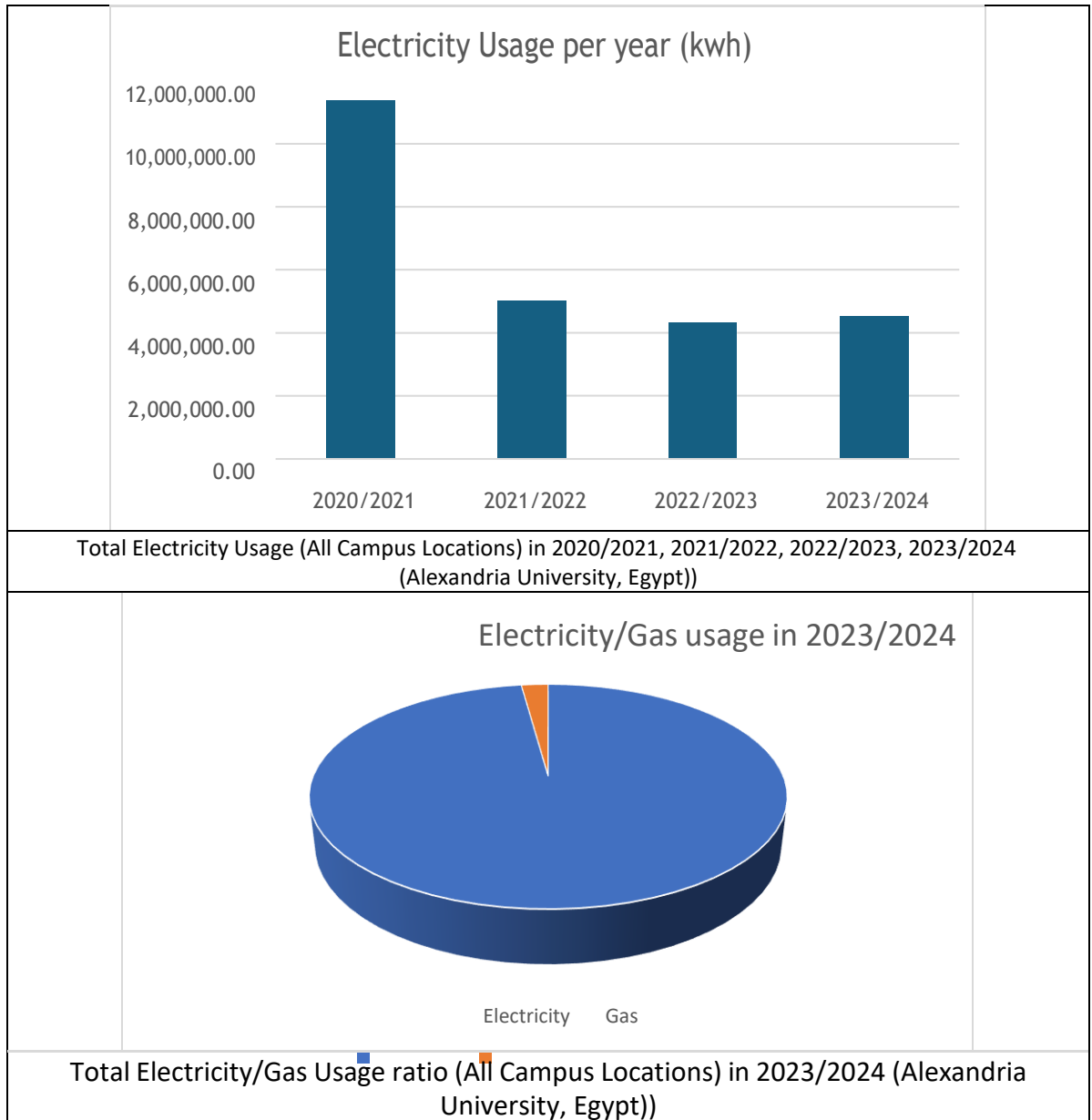


7.5.1 Total energy used



The **total electricity** consumption of Alexandria University for the academic year 2023/2024 is **4519154.69 kilowatts hour**. Total electricity use increased slightly compared to 2023 (4329779.781 kilowatts hour) the total electricity usage increased slightly by 1.0437% compared to year 2022/2023. Which is not a significant increase. The **total gas** use on the Alexandria University campus in the year 2023/2024 is **8,784 m³ (99,809 KW/h)**, which decreased almost of 35% compared to the academic year 2022/2023, where the total gas used was 13471 m³ (153,066 kWh).

Renewable energy production per year

No	Renewable Energy	Production (in kWh)
1	Solar panel	$57,150 + 49,620 + 241.2 + 360 + 220 = 107,591.2$
2	Windmill	55,000
	Total	162,591.2

New European Union Project for Renewable energy production (Solar panels)

No	Location	Production (in kWh)
1	Faculty of Engineering	360,000
2	Faculty of Education	360,000
3	Faculty of Medicine	288,000
	Total	1,008,000

The total Renewable energy production per year in Alexandria University after the implementation of the European Union project to convert several buildings of Alexandria University into green buildings

No	Renewable Energy	Production (in kWh)
1	Solar panel	$57,150 + 49,620 + 241.2 + 360 + 220 = 107,591.2$
2	Windmill	55,000
3	New Solar panels in 2023-2024	$360,000 + 360,000 + 288,000$
	Total	1,170,591.2

4519154.69 kilowatts hour total electricity consumption + 99,809 KWh total gas use = 4,618,963.69 kilowatts hour + 1,170,591.2 kilowatts hour = 5,789,554.89 kilowatts hour * 0.0036 = 20,842.397604 GJ