



ANNUAL STATISTICS BOOKLET 2023



We have developed a sustainable infrastructure that will serve new generations. This infrastructure has been built by young Emiratis who will lead our country through the next phase of growth. We are proud of our nation's advancements in clean energy and green economy.



His Highness

Sheikh Mohammed bin Rashid Al Maktoum

Vice President and Prime Minister of the UAE and Ruler of Dubai



STRATEGIC DIRECTION

Our Vision

A globally leading sustainable innovative corporation committed to achieving Net-Zero by 2050

Our Mission

We are committed and aligned to Dubai's 8 Guiding Principles and 50-Year Charter supporting the UAE's directions through the delivery of global leading services and innovative energy and potable water solutions enriching lives and ensuring the happiness of our stakeholders for a sustainable Net-Zero carbon 2050

Our Motto

For generations to come

Purpose

Providing globally leading sustainable, efficient, and reliable power and water services, and related innovative smart solutions towards Net-Zero Future.



HE Saeed Mohammed Al Tayer

MD & CEO
Dubai Electricity and Water Authority

MD & CEO Message

Dubai Electricity and Water Authority (DEWA) continues its journey of excellence and sustainable growth in line with the vision of HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, and the directives of HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of the Executive Council of Dubai, and HH Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum, First Deputy Ruler of Dubai and Deputy Prime Minister and Minister of Finance.

In 2023, DEWA continued its path of success and excellence, achieving the highest annual revenues and operating profits in its history. DEWA also came in the top global position in more than 10 Key Performance Indicators (KPIs) in its areas of work, surpassing leading utility companies in the European Union and the US across various indicators. In 2023, losses from electricity transmission and distribution networks were reduced to 2% compared to 6-7% in Europe and the USA. Water network losses reached 4.6% compared to around 15% in North America. DEWA set a new world record in electricity Customer Minutes Lost (CML) per year. Dubai recorded 1.06 minutes per customer in 2023, surpassing its 2022 record of 1.19 minutes per customer, compared to approximately 15 minutes recorded by leading utility companies in the European Union.

DEWA provides its services to over 1.2 million customers in Dubai according to the highest levels of quality, availability, and efficiency. By the end of 2023, DEWA's installed capacity reached 16,270 megawatts (MW) of electricity and 495 million gallons of desalinated water per day. As part of our commitment to achieving Dubai's Net Zero 2050 ambition, we continue to develop the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world. The solar park's current generation capacity is 2,627 MW, and will reach over 5,000MW of Solar PV and Concentrated Solar Power by 2030.

All of us at DEWA are committed to continuing our journey of excellence and enhancing our services to achieve the happiness of all stakeholders and contribute to building a brighter future for us and for generations to come.

POWER GENERATION & WATER DESALINATION INSTALLED CAPACITY 2023

STATIONS	Water	Power
	MIGD*	MW**
Jebel Ali Station "D"	34.5	1,027
Jebel Ali Station "E"	25	616
Jebel Ali Station "G"	81	818
Palm SWRO Plant	5	-
Aweer Power Station "H" – Ph I	-	607
Aweer Power Station "H" – Ph II	-	421
Aweer Power Station "H" – Ph III	-	968
Aweer Power Station "H" – Ph IV	-	553
Jebel Ali Station "K"	96	948
Jebel Ali Station "L" – Ph I	67.5	969
Jebel Ali Station "L" – Ph II	52	1,432
Jebel Ali Station "M"	134	2,185
Jebel Ali Station "M" Extension	-	700
Mohammed Bin Rashid Solar Park – Ph I	-	10
Mohammed Bin Rashid Solar Park – Ph II	-	200
Mohammed Bin Rashid Solar Park – Ph III (A, B, C)	-	800
Mohammed Bin Rashid Solar Park – Ph IV	PV***	217
	CSP****	500
Mohammed Bin Rashid Solar Park – Ph V (A, B, C)	-	900
Hassyan Power Plant – Ph I & II (Units 1, 2, 3 & 4)	-	2,400
Total	495	16,270

*MIGD – Million Imperial Gallons Per Day

**MW – Megawatt

*** PV – Photovoltaic

**** CSP – Concentrated Solar Power

ELECTRICITY

NUMBER OF SUBSTATIONS TRANSMISSION & DISTRIBUTION	2022	2023
400 kV	27	27
132 kV	334	348
33 kV	73	75
11 & 6.6 kV	42,771	44,015

LENGTH OF POWER TRANSMISSION & DISTRIBUTION LINES (km)	2022	2023
Overhead Lines		
400 kV	1,388	1,388
132 kV	367	331*
33 kV	100	100
11 & 6.6 kV	613	607**
Underground Cables		
400 kV	25	26
132 kV	2,552	2,668
33 kV	2,000	1,966***
11 & 6.6 kV	35,541	36,174

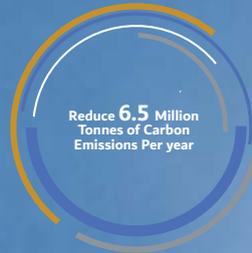
* Reduction due to undergrounding of 132 kV OHL

** Reduction due to undergrounding of 11 & 6.6 kV OHL in Residential areas

*** Reduction due to decommissioning of 33kV cables



LARGEST SINGLE-SITE SOLAR PARK IN THE WORLD



POWER GENERATION INSTALLED CAPACITY (MW)

2022

2023

Gas Turbines

7,975

8,528

Steam Turbines

4,515

5,115

Solar PV and CSP

2,027

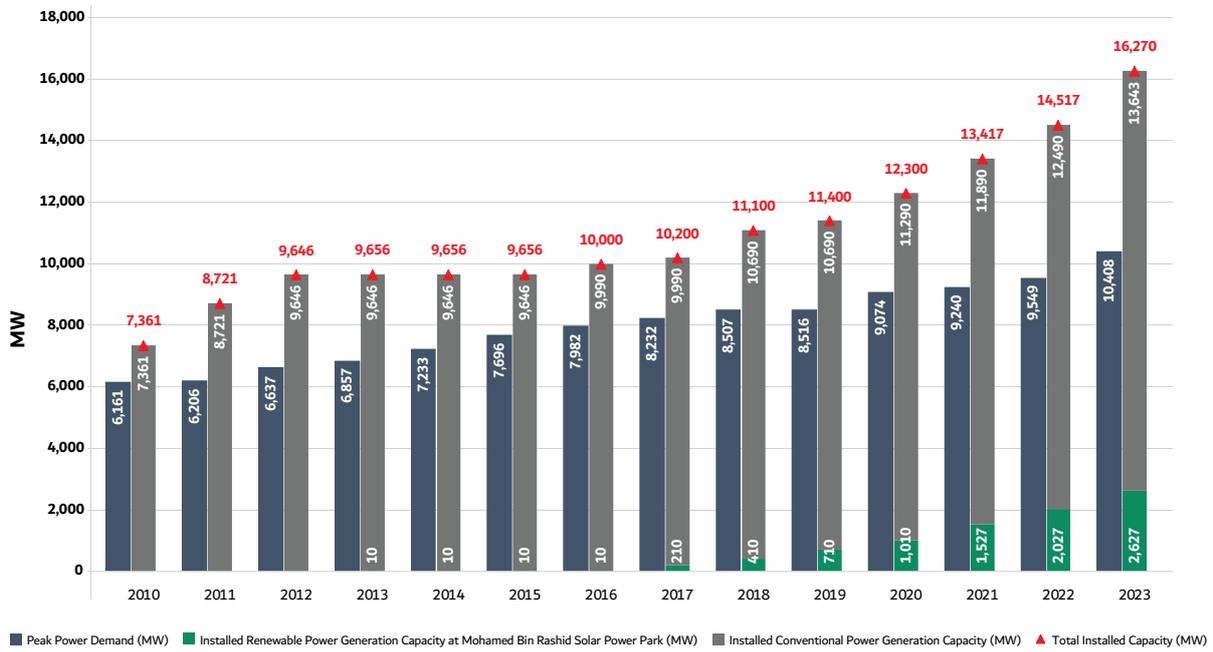
2,627

Total Installed Capacity

14,517

16,270

MW – Megawatt



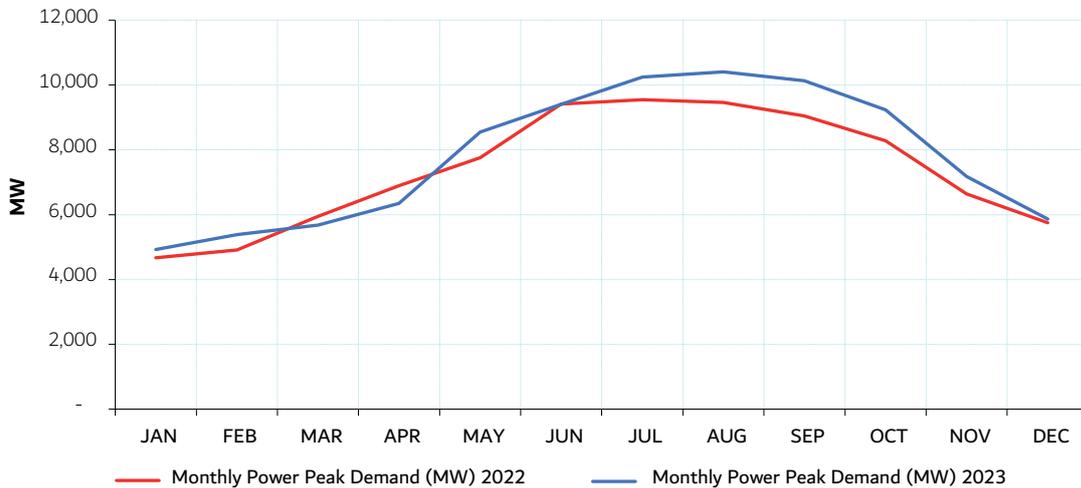
POWER PEAK DEMAND (MW)

2022

2023

9,549

10,408



NUMBER OF ELECTRICITY CUSTOMERS

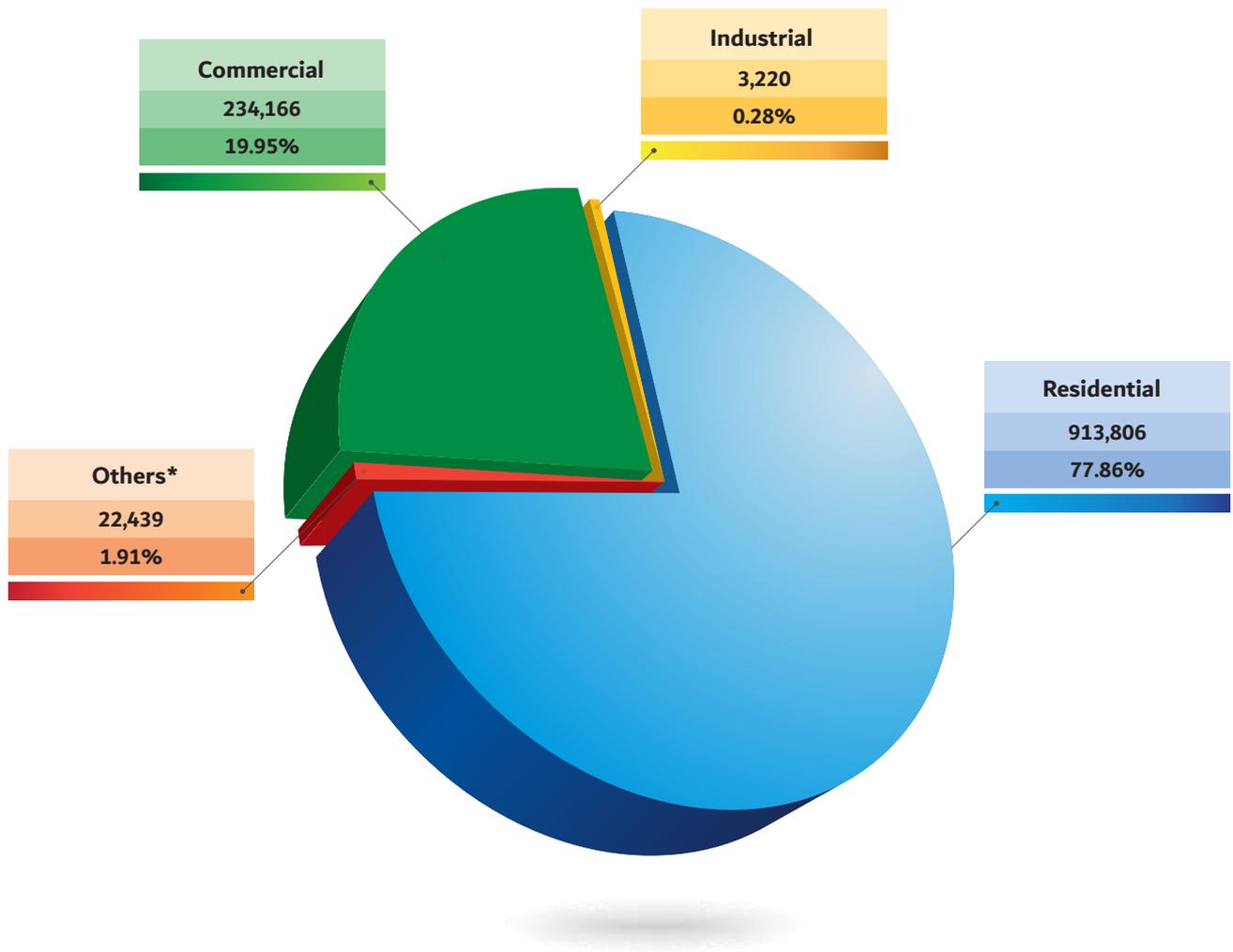
2022

2023

1,116,575

1,173,631

CATEGORY - WISE NUMBER OF ELECTRICITY CUSTOMERS 2023



*OTHERS: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.)

TOTAL ENERGY REQUIREMENT (GWh)

2022

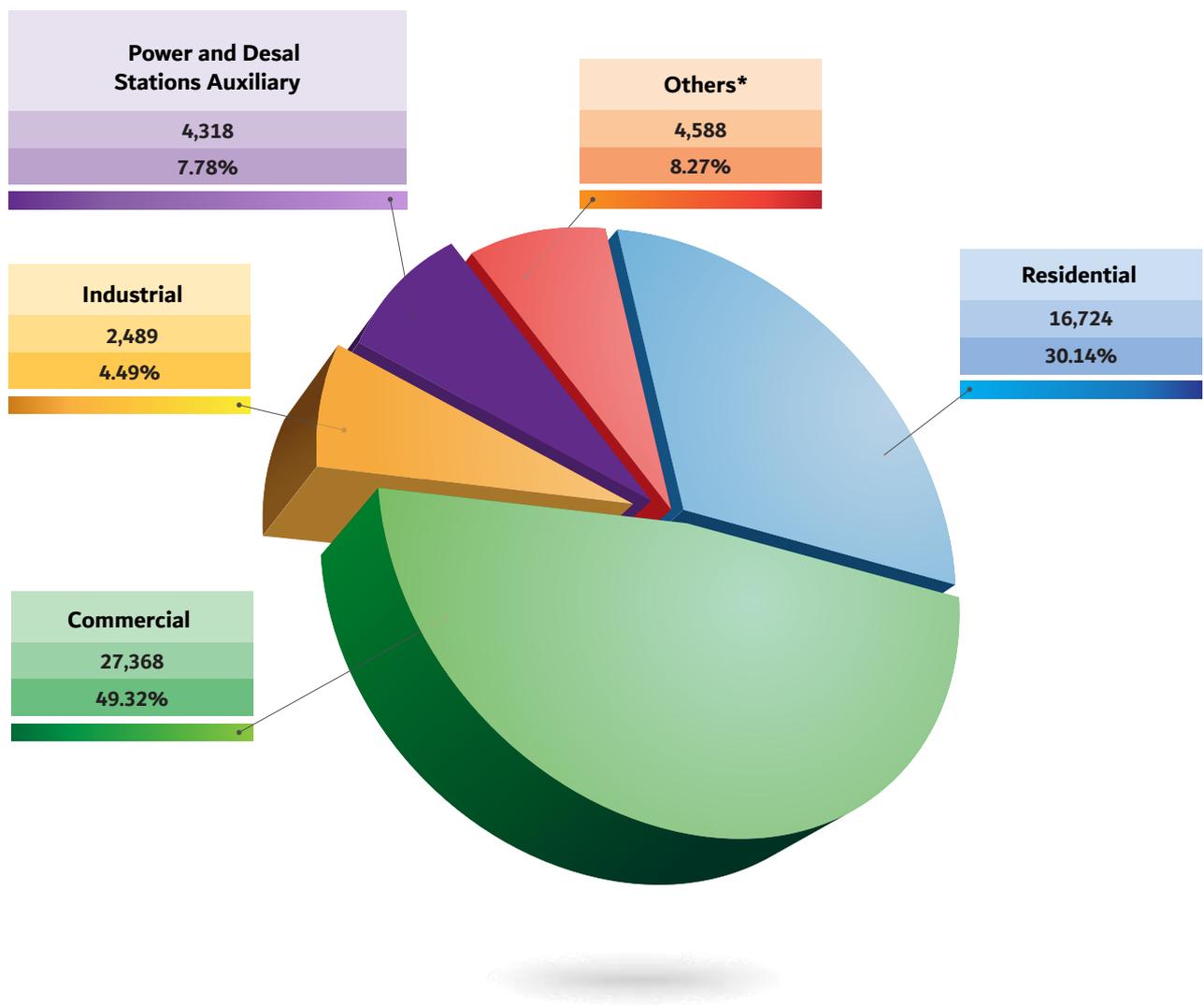
2023

53,180

56,516

GWh: Gigawatt hour

CATEGORY - WISE ELECTRICITY CONSUMPTION 2023 (GWh)

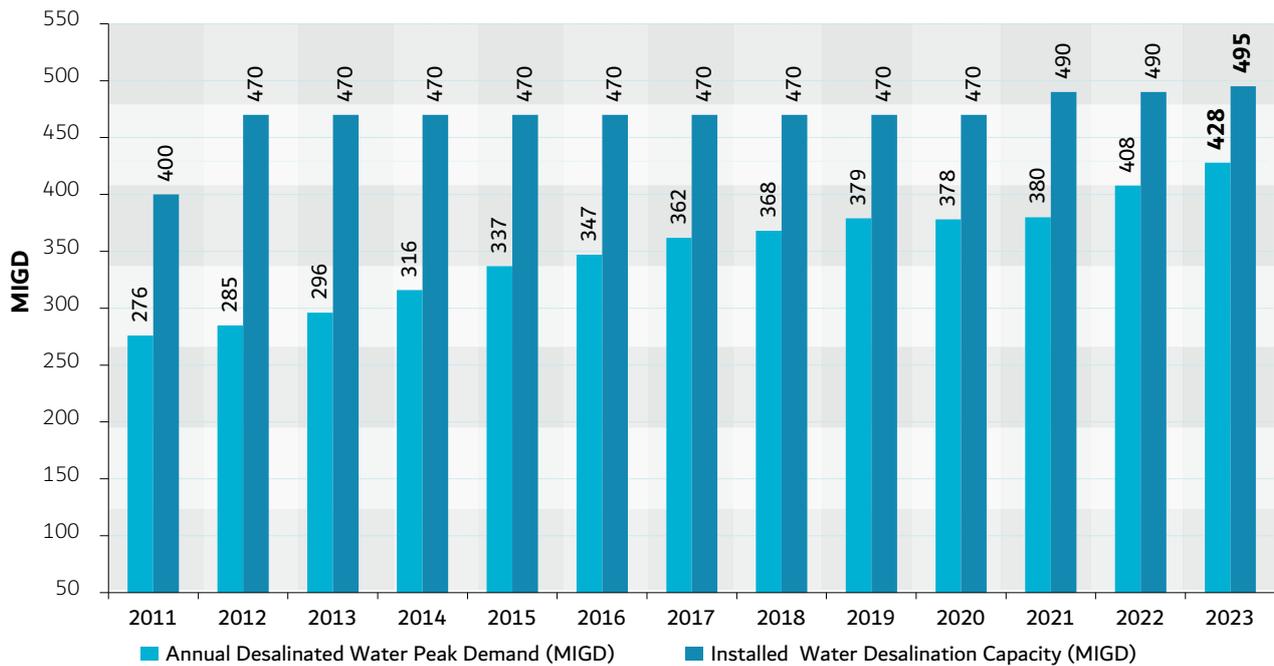


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WATER

WATER PRODUCTION INSTALLED CAPACITY (MIGD)	2022	2023
Desalination Plants	490	495
Groundwater Wells	36	36

MIGD- Million Imperial Gallons Per Day



DESALINATED WATER PEAK DEMAND (MIGD)	
2022	2023
408	428

MIGD - Million Imperial Gallons per Day

LENGTH OF WATER TRANSMISSION PIPELINES (km)	2022	2023
1200 mm	1,358	1,434
900 mm	348	348

WATER STORAGE CAPACITY (MIG)	2022	2023
Reservoirs	822	911

MIG - Million Imperial Gallons

NUMBER OF WATER CUSTOMERS

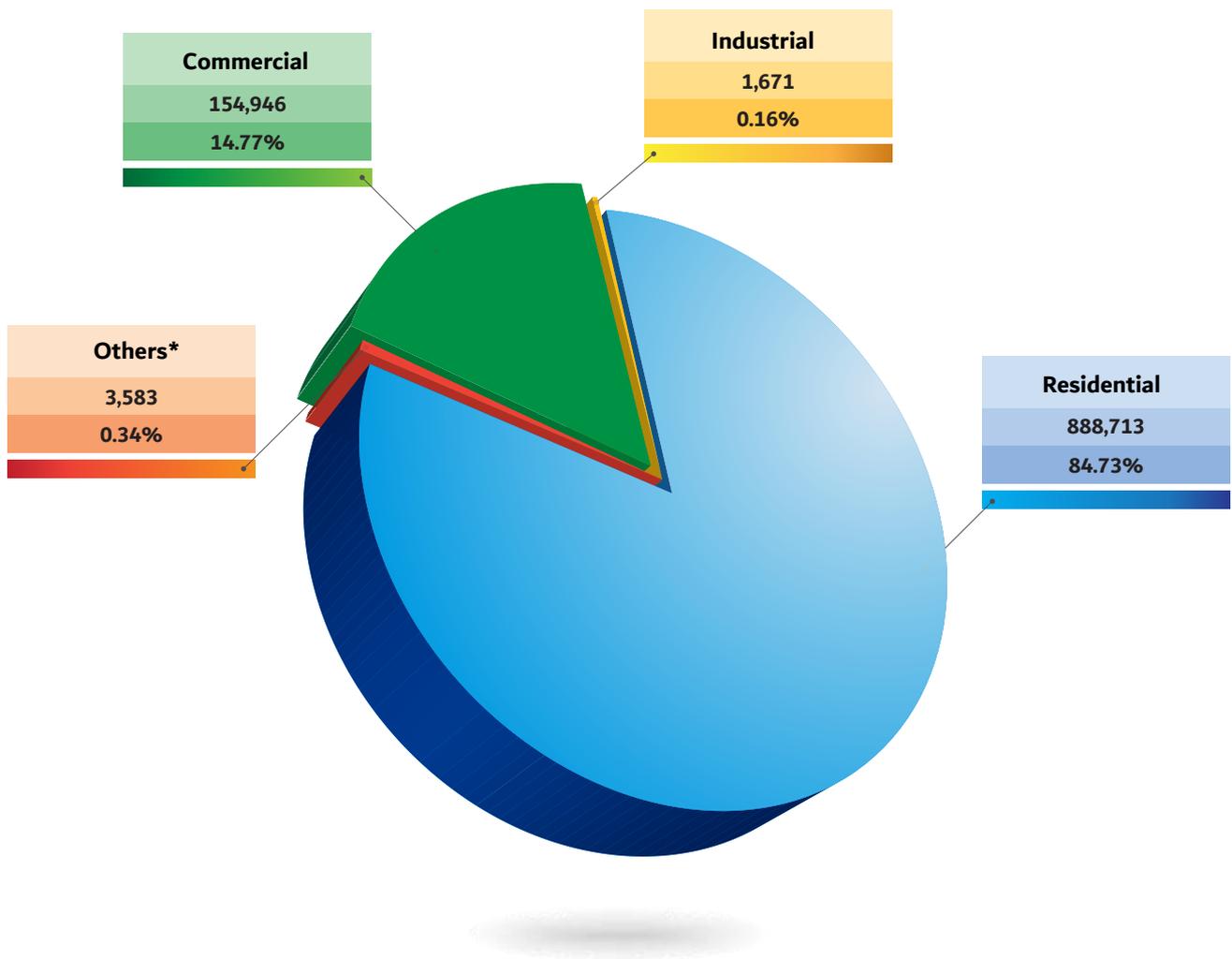
2022

2023

995,478

1,048,913

CATEGORY - WISE NUMBER OF WATER CUSTOMERS 2023

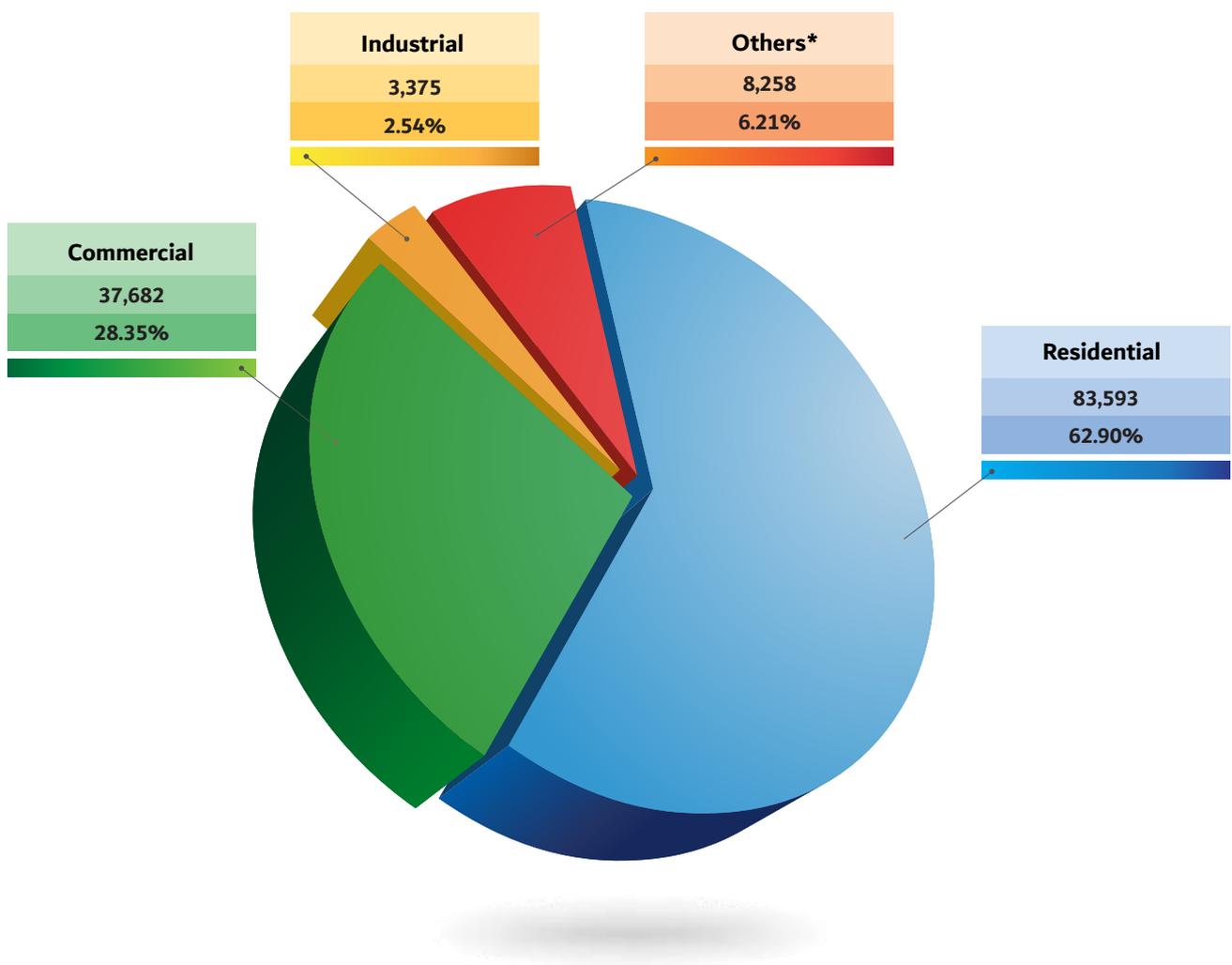


*OTHERS: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.)

TOTAL WATER REQUIREMENTS (MIG)	2022	2023
Desalinated Water	136,977	144,133
Groundwater	585	416

MIG - Million Imperial Gallons

CATEGORY - WISE WATER CONSUMPTION 2023 (MIG)



*OTHERS: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.)

