



ANNUAL STATISTICS BOOKLET

2024





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

MD & CEO MESSAGE

HE SAEED MOHAMMED AL TAYER

MD & CEO

Dubai Electricity and Water Authority (DEWA)



At Dubai Electricity and Water Authority (DEWA), we continue on the path 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, Deputy Prime Minister and Minister of Defence of the UAE, and Chairman of The Executive Council of Dubai, and HH Sheikh Maktoum bin Mohammed bin Rashid Al Maktoum, First Deputy Ruler of Dubai, Deputy Prime Minister, and Minister of Finance of the UAE.

In 2024, DEWA continued its journey of success and excellence, achieving the highest annual revenues in its history. DEWA also ranked in the top global position in 12 key performance indicators within its areas of operation, surpassing leading utility companies in the European Union and the United States across various benchmarks. Losses from electricity transmission and distribution networks reached 2%, compared to 6-7% in Europe and the United States. Water network losses reached 4.5%, compared to around 15% in North America. DEWA also set a new world record for electricity Customer Minutes Lost (CML) per year. Dubai recorded 0.94 minutes per customer, surpassing its 2023 record of 1.06 minutes per customer, compared to approximately 15 minutes recorded by leading utilities in the European Union.

DEWA provides its services to more than 1.27 million customers in Dubai, adhering to the highest standards of availability, reliability, and efficiency. By the end of 2024, DEWA's installed generation capacity reached 17,179 MW, with 3,060 MW of this capacity coming from clean energy sources at the Mohammed bin Rashid Al Maktoum Solar Park, the largest single-site solar park in the world. By 2030, the solar park's production capacity will reach 7,260 MW, increasing the share of clean energy in Dubai's energy mix to 34%. The solar park will reduce by around 8 million tonnes of carbon emissions annually, reinforcing Dubai's position as a global hub for sustainability and innovation in renewable energy. This also supports our commitment to achieving Dubai's ambitions to reach net zero by 2050.

By the end of 2024, DEWA's desalinated water production capacity reached 495 million imperial gallons per day (MIGD). By 2030, DEWA will add 240 MIGD of desalination capacity using seawater reverse osmosis technology. By then, DEWA's total installed desalination capacity will reach 735 MIGD.

We will continue our efforts to achieve sustainable growth, maximise returns for all stakeholders and reduce DEWA's ecological footprint—contributing to building a brighter future for us and for generations to come.



POWER GENERATION & WATER DESALINATION INSTALLED CAPACITY 2024

STATIONS		Water (MIGD) ⁽¹⁾	Power (MW) ⁽²⁾
Jebel Ali Station “D”		34.5	1,027
Jebel Ali Station “E”		25	616
Jebel Ali Station “G”		81	818
Palm SWRO ⁽³⁾ 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		-	829
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 Al Maktoum Solar Park - Ph I		-	10
Mohammed bin Rashid Al Maktoum Solar Park - Ph II		-	200
Mohammed bin Rashid Al Maktoum Solar Park - Ph III (A, B, C)		-	800
Mohammed bin Rashid Al Maktoum Solar Park - Ph IV	PV ⁽⁴⁾	-	250
	CSP ⁽⁵⁾	-	700
Mohammed bin Rashid Al Maktoum Solar Park - Ph V (A, B, C)		-	900
Mohammed bin Rashid Al Maktoum Solar Park - Ph VI (A)		-	200
Hassyan Power Plant - Ph I & II (Units 1, 2, 3 & 4)		-	2,400
Warsan Waste to Energy Plant		-	200
Total		495	17,179

(1) MIGD: Million Imperial Gallons Per Day

(2) MW: Megawatt

(3) SWRO: Sea Water Reverse Osmosis

(4) PV: Photovoltaic

(5) CSP: Concentrated Solar Power

ELECTRICITY

NUMBER OF SUBSTATIONS (TRANSMISSION & DISTRIBUTION)	2023	2024
400 kV	27	27
132 kV	348	360 ⁽¹⁾
33 kV	75	69 ⁽²⁾
11 & 6.6 kV	44,015	45,317

(1) In 2024, 13 New 132 kV Substations were commissioned, one Substation was decommissioned, hence, net increase is 12 Substations.

(2) 6 Substations decommissioned in 2024.

LENGTH OF POWER TRANSMISSION & DISTRIBUTION LINES (km)	2023	2024
Overhead Line (OHL)		
400 kV	1,388	1,388
132 kV	331	317 ⁽¹⁾
33 kV	100	84 ⁽²⁾
11 & 6.6 kV	607	598 ⁽³⁾
Underground Cables		
400 kV	26	26
132 kV	2,668	2,783
33 kV	1,966	1,844 ⁽²⁾
11 & 6.6 kV	36,174	36,893

(1) Reduction due to undergrounding of 132 kV OHL

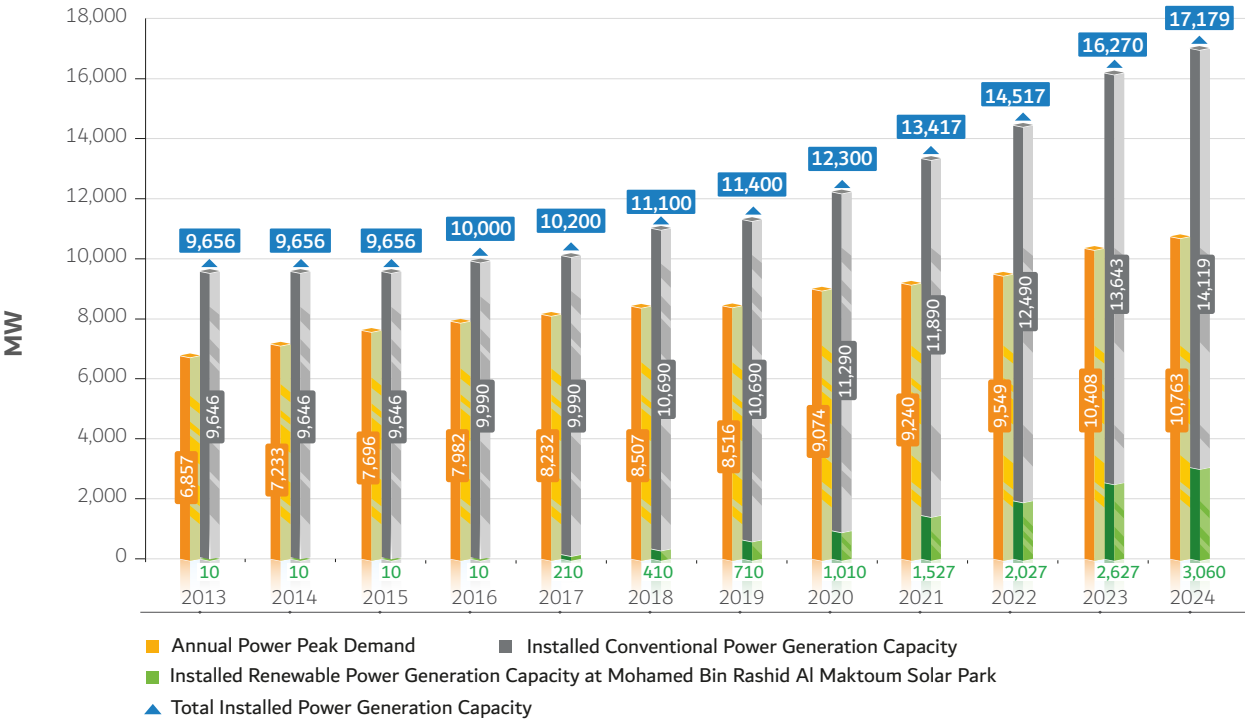
(2) Reduction due to decommissioning of 33 kV Substations

(3) Reduction due to undergrounding of 11 & 6.6 kV OHL in Residential areas



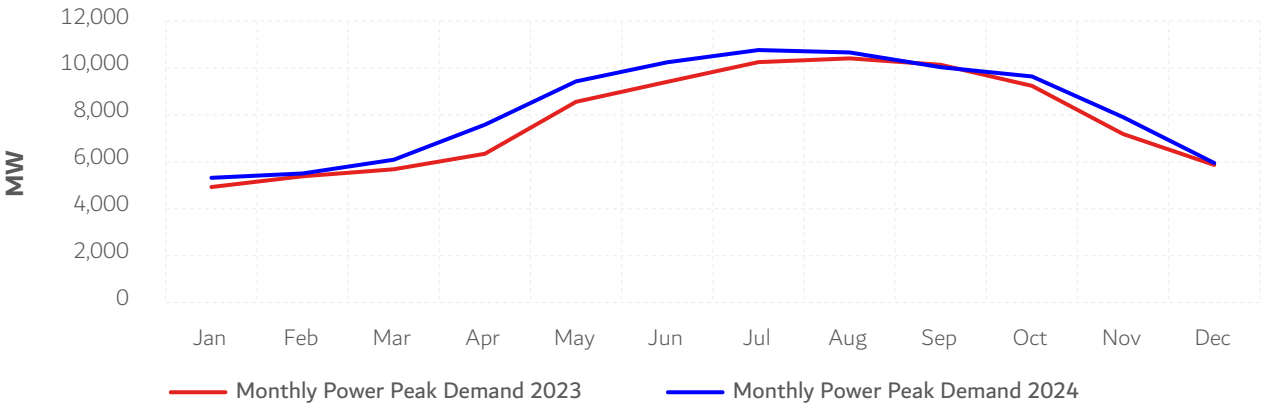
POWER GENERATION INSTALLED CAPACITY (MW)	2023	2024
Gas Turbines	8,528	8,804
Steam Turbines	5,115	5,115
Solar PV and CSP	2,627	3,060
Waste to Energy	-	200
Total Installed Capacity	16,270	17,179

INSTALLED POWER GENERATION CAPACITY & POWER PEAK DEMAND



POWER PEAK DEMAND (MW)

2023 10,408 2024 10,763



NUMBER OF ELECTRICITY CUSTOMERS

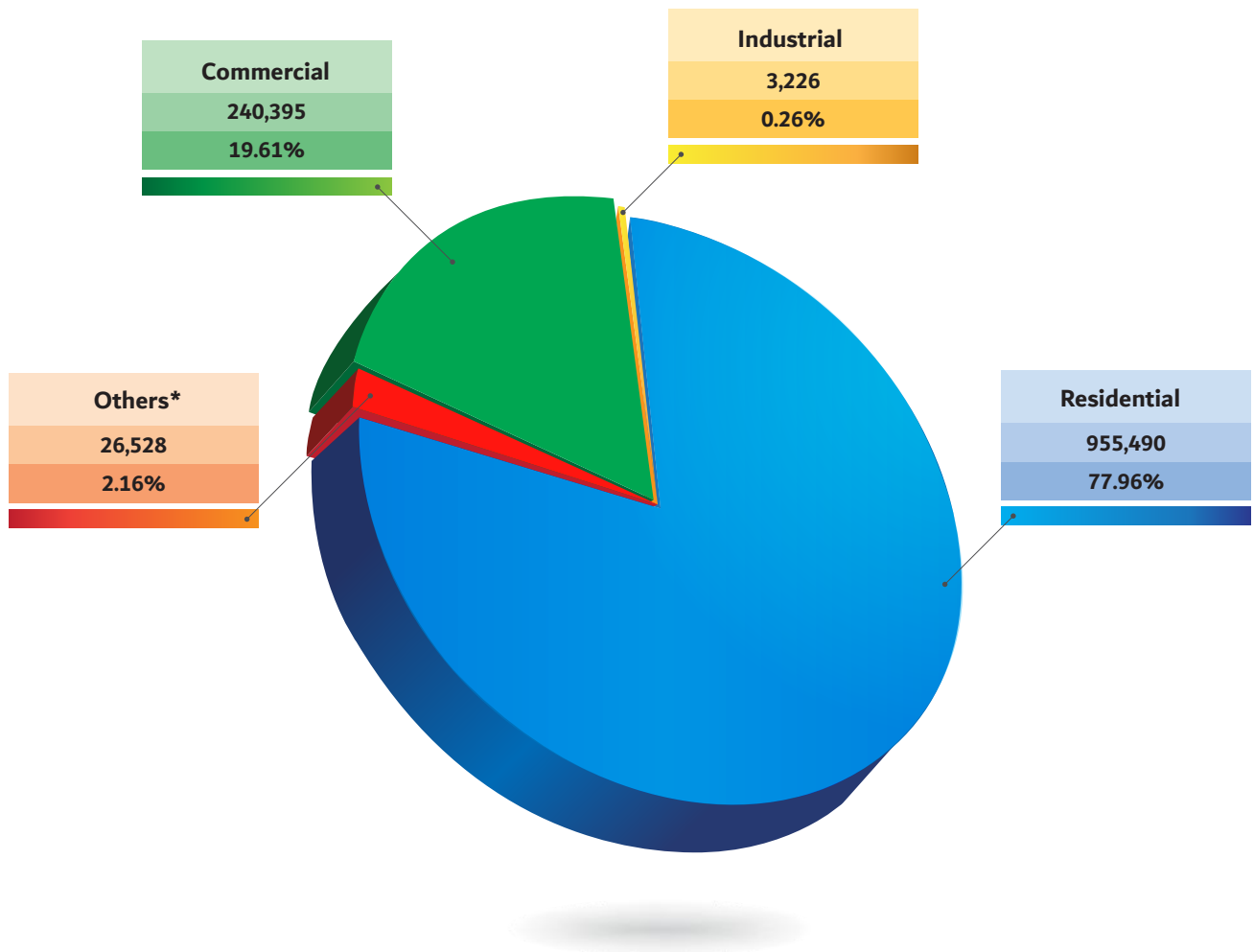
2023

1,173,631

2024

1,225,639

CATEGORY-WISE NUMBER OF ELECTRICITY CUSTOMERS 2024



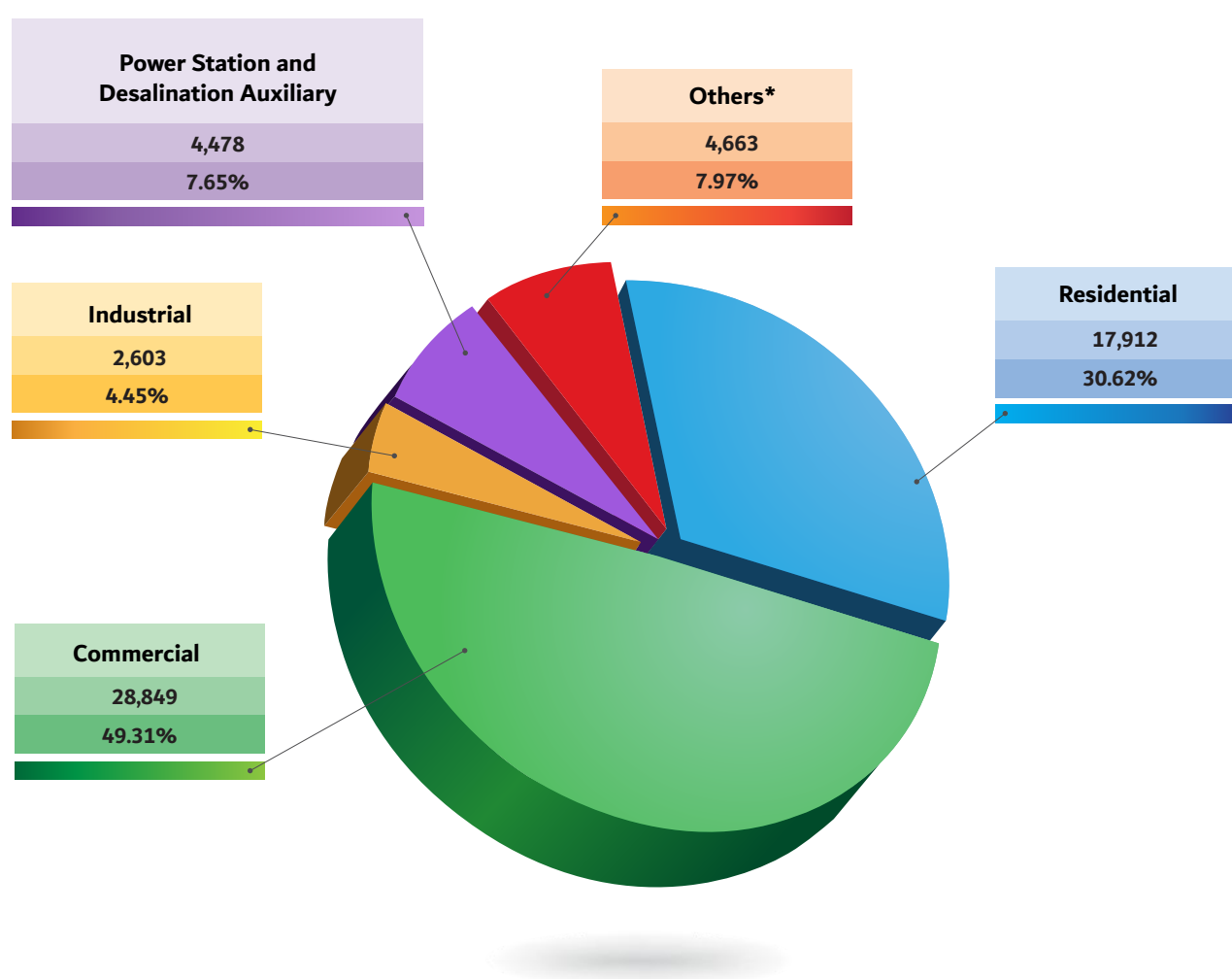
* **Others:** Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.



TOTAL ENERGY REQUIREMENT (GWh) ⁽¹⁾	
2023	2024
56,516	59,594

(1) GWh: Gigawatt hour

CATEGORY-WISE ELECTRICITY CONSUMPTION (GWh) 2024

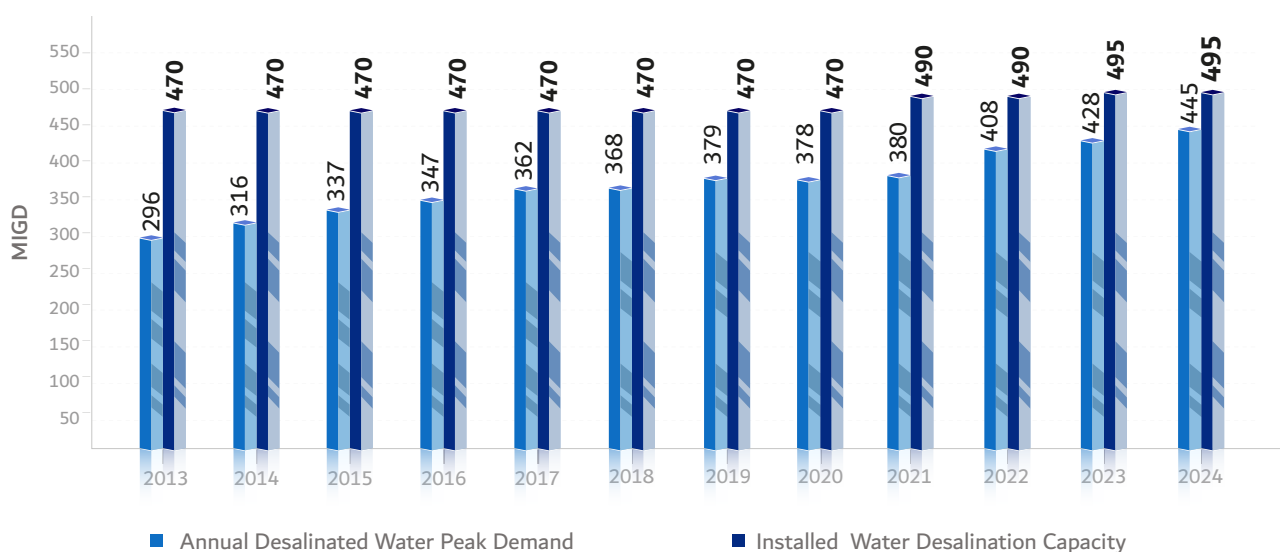


* **Others:** Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.

WATER

PRODUCTION INSTALLED CAPACITY (MIGD)	2023	2024
Multi-Stage Flash Desalination Plants	427	427
Reverse Osmosis Desalination Plants	68	68
Total	495	495
Groundwater Wells	36	36

INSTALLED WATER DESALINATION CAPACITY & WATER PEAK DEMAND



ANNUAL DESALINATED WATER PEAK DEMAND (MIGD)

2023	2024
428	445

LENGTH OF WATER TRANSMISSION PIPELINES (km)	2023	2024
1200 mm	1,434	1,463
900 mm	348	350
WATER STORAGE CAPACITY (MIG) ⁽¹⁾	2023	2024
Reservoirs Storage Capacity	911	1,002

(1) MIG - Million Imperial Gallons

NUMBER OF WATER CUSTOMERS

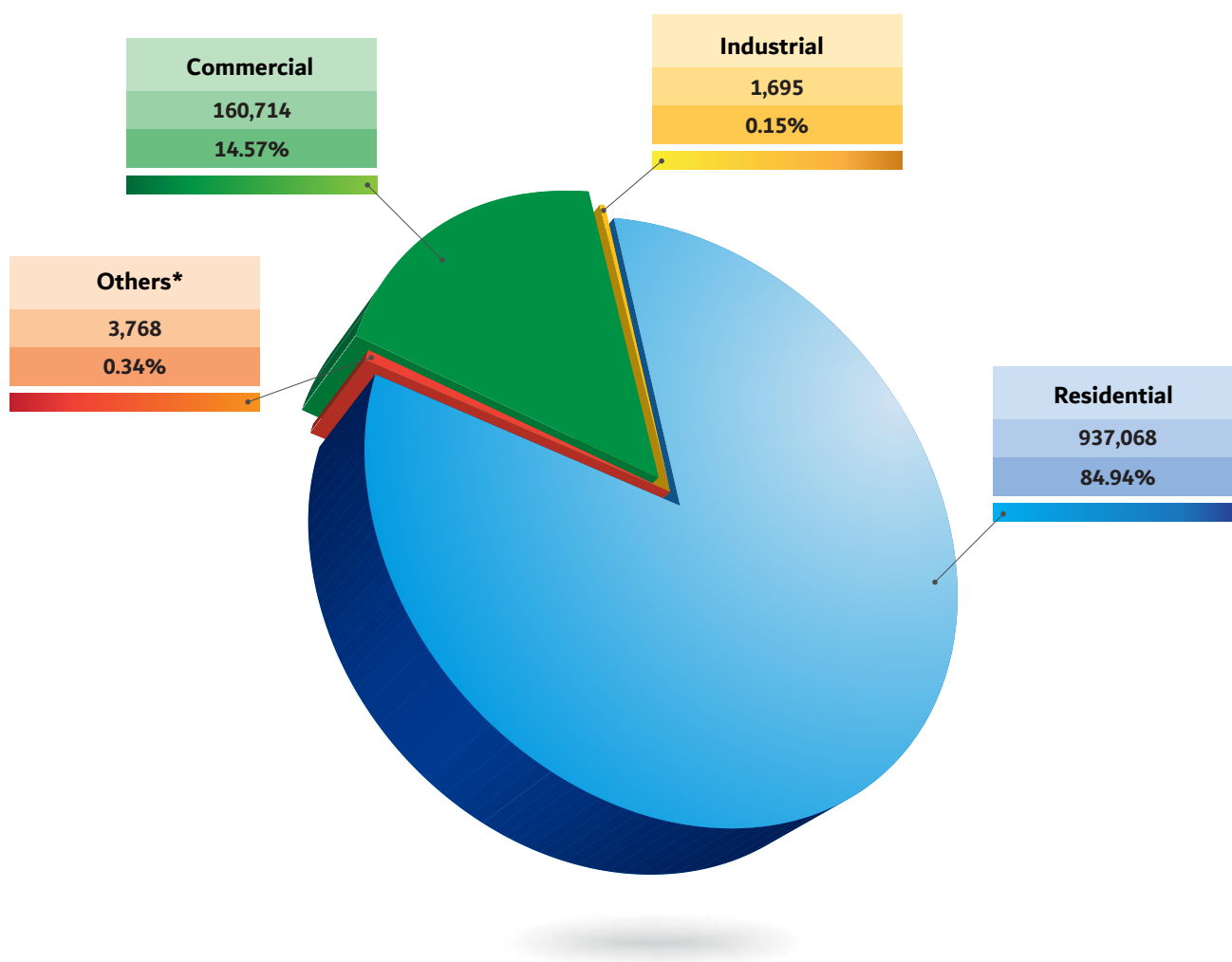
2023

1,048,913

2024

1,103,245

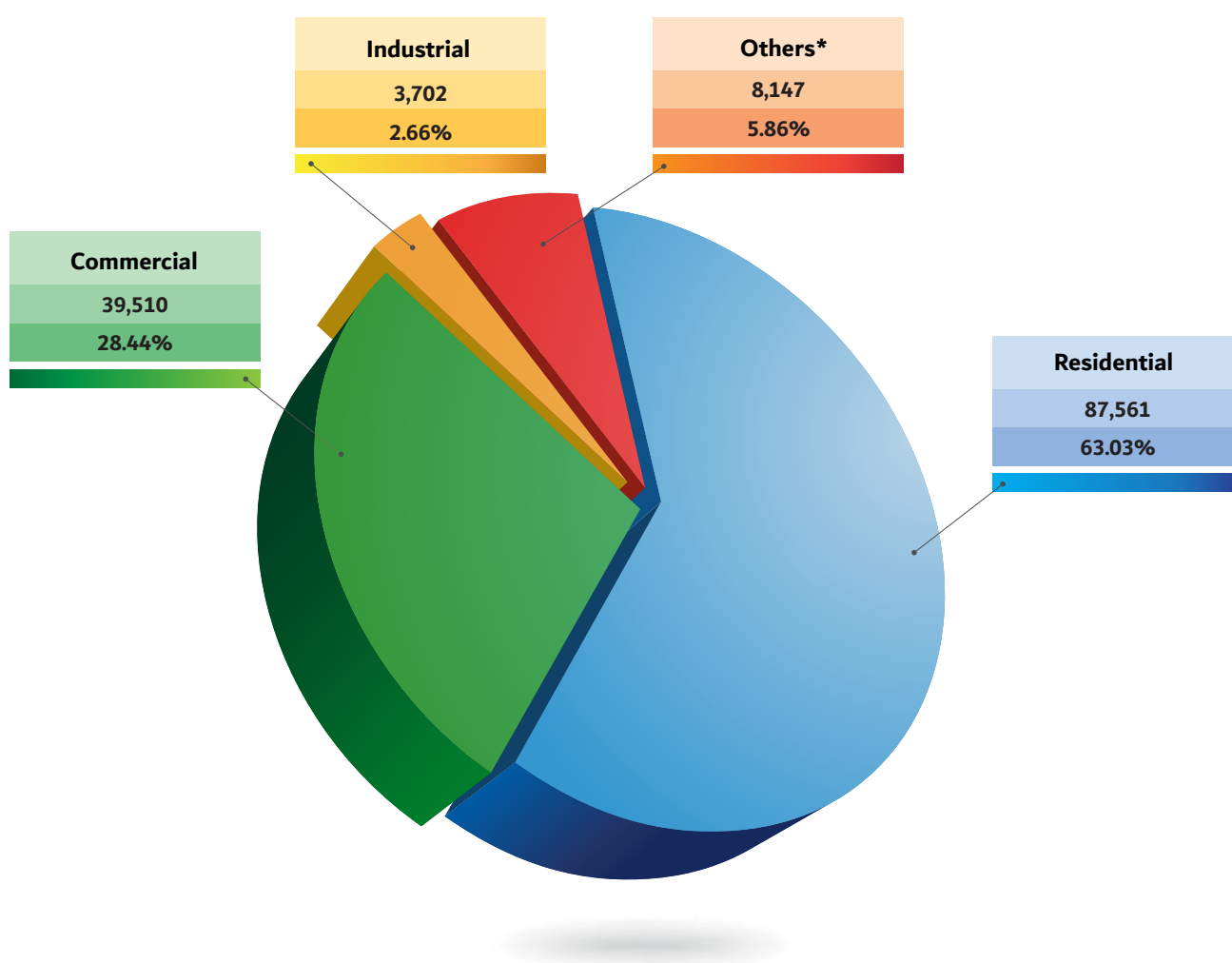
CATEGORY-WISE NUMBER OF WATER CUSTOMERS 2024



* **Others:** Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.

TOTAL WATER REQUIREMENTS (MIG)	2023	2024
Desalinated Water	144,133	151,475
Groundwater	416	386

CATEGORY-WISE NUMBER OF WATER CUSTOMERS 2024



* **Others:** Mosques, Police Stations, Government Hospitals, Government Schools, DEWA's Offices & Premises, etc.

مجمع محمد بن راشد آل مكتوم
للطاقة الشمسية
MOHAMMED BIN RASHID AL MAKTOUM
SOLAR PARK



LARGEST SINGLE-SITE SOLAR PARK IN THE WORLD



