

ANNUAL STATISTICS 2020





“ We recognise that preserving our energy resources will be one of the greatest challenges in our drive towards sustainable development. This, however, will not materialise unless the different facets of our society adopt energy conservation principles in their core values. The future generation will be the chief beneficiary of our achievements and the best judge of what we accomplish in this field. ”

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

Our Mission

We are committed and aligned to Dubai's 8 Principles and 50-Year Charter supporting the UAE's directions through the delivery of global leading services and innovative energy solutions enriching lives and ensuring the happiness of our stakeholders in a sustainable manner

Our Motto

For generations to come



Saeed Mohammed Al Tayer

MD & CEO
Dubai Electricity and Water Authority

MD & CEO Message

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, who said, **“Our end goal is number one globally in all fields and our development is remarkably progressing every day. The competitiveness will only make us more excellent,”** we work to improve performance, productivity, and quality of our services. DEWA's 2021 Plan is aligned with the UAE Centennial 2071, the UAE Vision 2021, and the Dubai Plan 2021, to ensure a happy and sustainable future and take the UAE to the number one position in all areas.

DEWA's investments total AED 86 billion over five years, to meet growing demand for electricity and water in the Emirate. This provides significant investment opportunities, contributes to the growth of the green economy, and creates a competitive advantage for the UAE in clean energy and energy efficiency technologies. DEWA currently has an installed capacity of 12,300 megawatts (MW) of electricity and 470 million gallons of desalinated water per day, providing its services to over one million customers in Dubai according to the highest levels of quality, availability, and efficiency.

DEWA has ensured numerous global achievements. Dubai recorded the world's lowest Customer Minutes Lost (CML) of 1.66 minutes per year; the lowest electricity transmission- and distribution-network-line losses of 3.3%, and one of the lowest water-network losses of 5.1%. The UAE, represented by DEWA, maintained its first global ranking in getting electricity, for the third year running in the World Bank's Doing Business 2020 report, which measures the ease of doing business in 190 economies around the world, scoring 100% in all indicators.

While DEWA's achievements have made it a global benchmark, this Statistics Booklet covers only our key achievements. All of us at DEWA are committed to continue this journey towards excellence and enhance our services to achieve the happiness of customers and society as a whole, and contribute to building a brighter future, for generations to come.

POWER GENERATION & WATER DESALINATION PLANTS INSTALLED CAPACITY

Stations	2020	
	MIGD*	MW**
Jebel Ali Station "D"	35	1,027
Jebel Ali Station "E"	25	616
Jebel Ali Station "G"	60	818
Jebel Ali R.O. Desalination Plant	25	-
Aweer Power Station "H" - Ph I	-	607
Aweer Power Station "H" - Ph II	-	421
Aweer Power Station "H" - Ph III	-	968
Jebel Ali Station "K"	60	948
Jebel Ali Station "L" - Ph I	70	969
Jebel Ali Station "L" - Ph II	55	1,432
Jebel Ali Station "M"	140	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***	-	200
Mohammed bin Rashid Al Maktoum Solar Park - Ph III B***	-	300
Mohammed bin Rashid Al Maktoum Solar Park - Ph III C***	-	300
Hassyan Clean Coal Power Plant Phase-I	-	600
Total	470	12,300

*MIGD - Million Imperial Gallons per Day
 **MW - Megawatt
 *** Solar PV Plant capacity Maximum MWac

SUBSTATIONS (TRANSMISSION & DISTRIBUTION)

Number of Substations	2019	2020
400 kV	22	23
132 kV	285	307
33 kV	93*	85*
11 & 6.6 kV	38,240	40,588

*Decommissioning of 8 substations

Length of Transmission & Distribution Lines

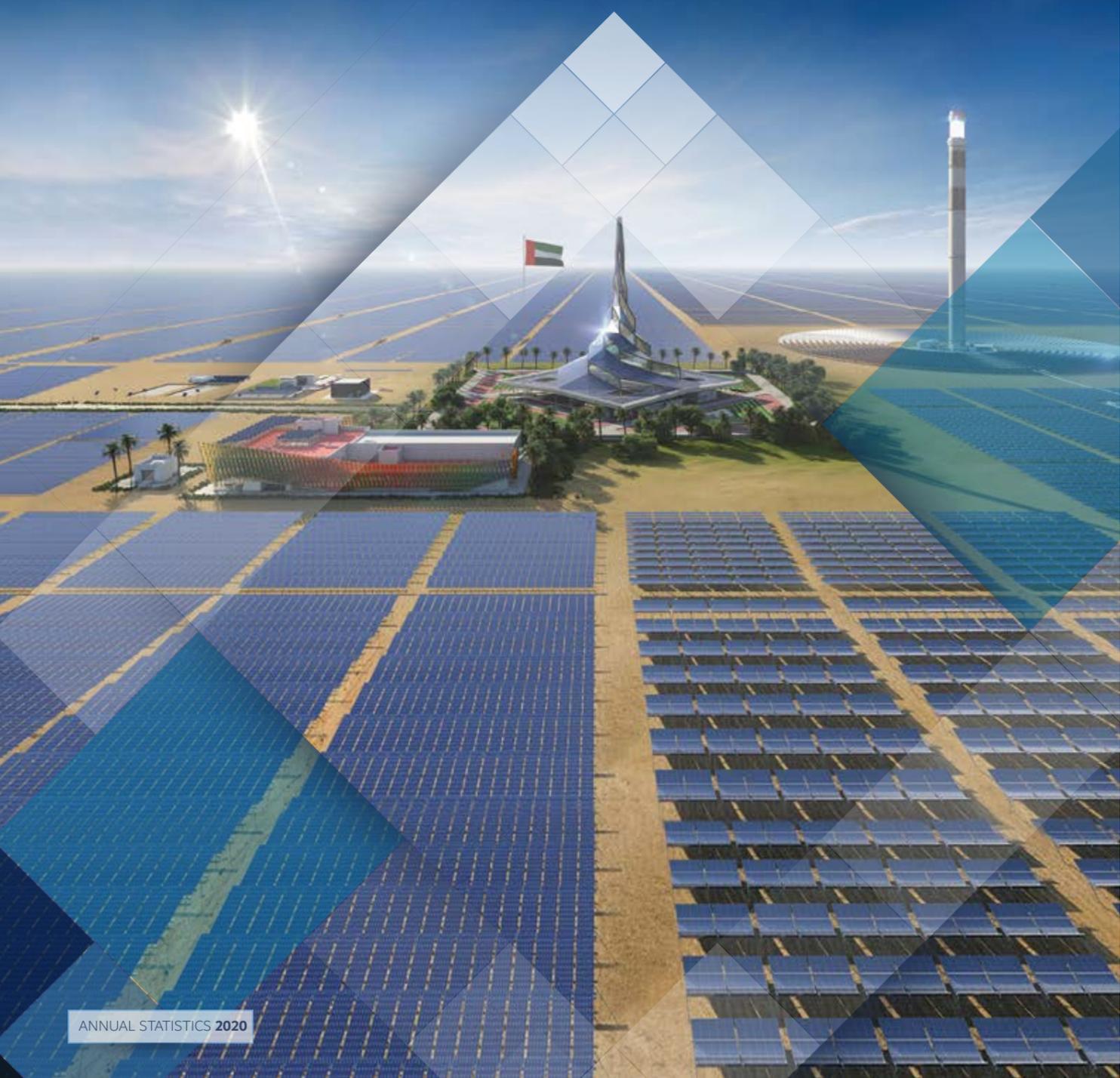
Overhead Lines

400 kV	km	1,164	1,168
132 kV	km	402	402
33 kV	km	112	104

Underground Cables

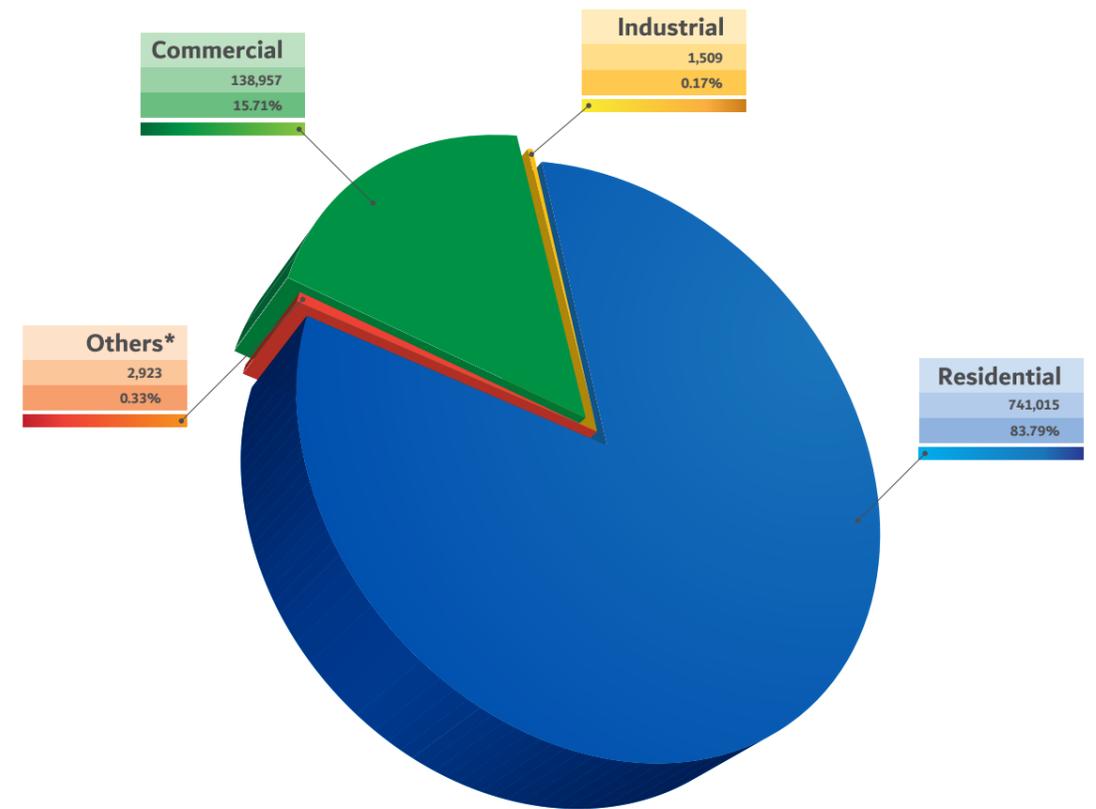
400 kV	km	24	24
132 kV	km	2,146	2,249
33 kV	km	2,142	2,119
11 & 6.6 kV	km	33,940	34,475

LARGEST SINGLE-SITE SOLAR PARK IN THE WORLD



NUMBER OF WATER CUSTOMERS 2020

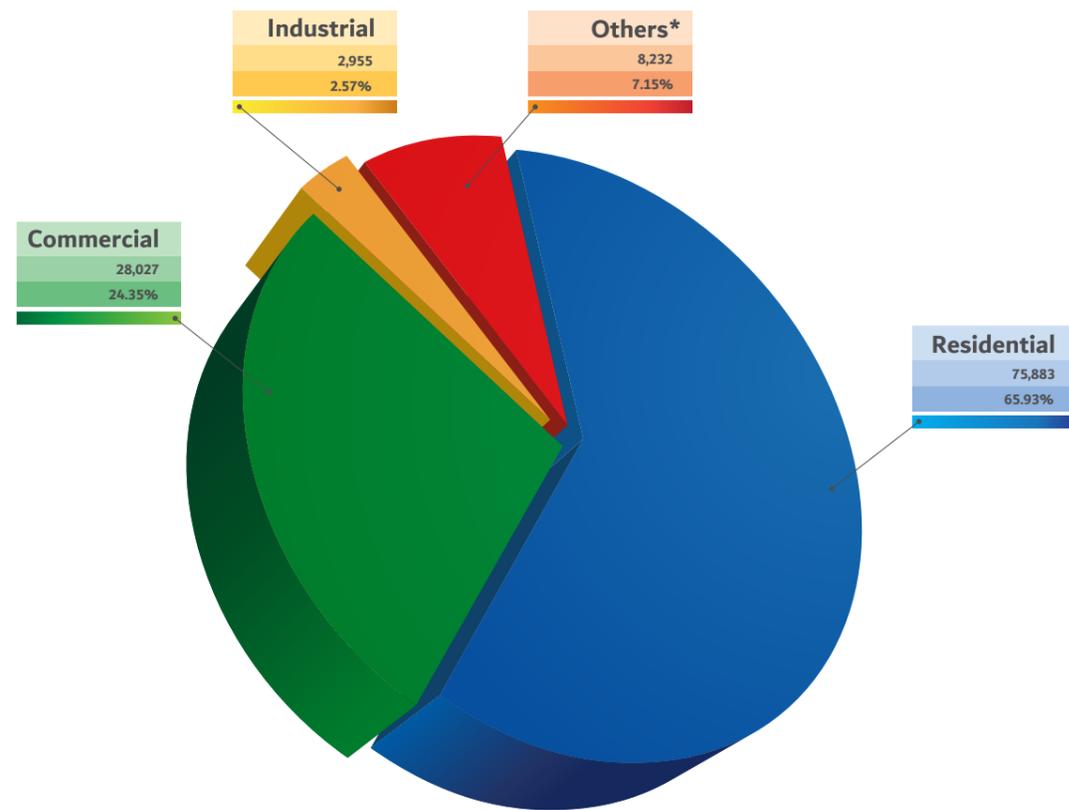
Water	2019	2020
No. of Customers	816,580	884,404



*Others: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA Offices, Staff Premises, etc.)

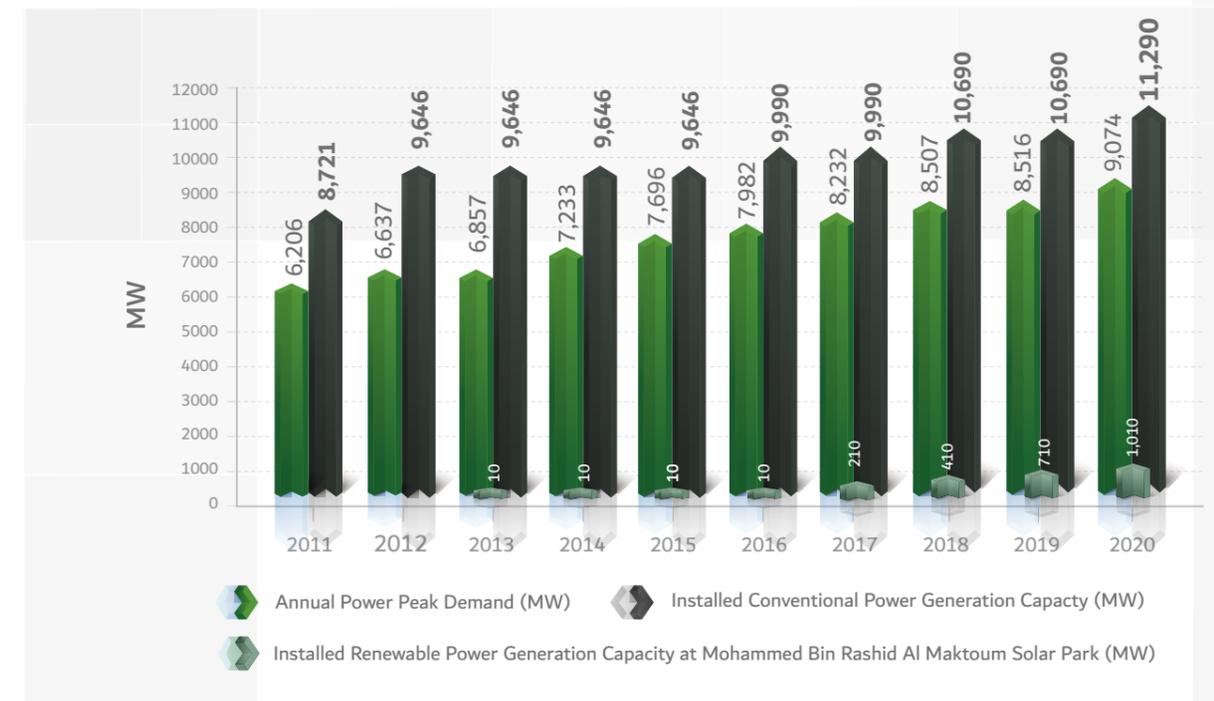
WATER CONSUMPTION (MIG) 2020

Water (Total System Requirement)		2019	2020
Desalinated Water	MIG	126,121	125,685
Groundwater	MIG	477	466

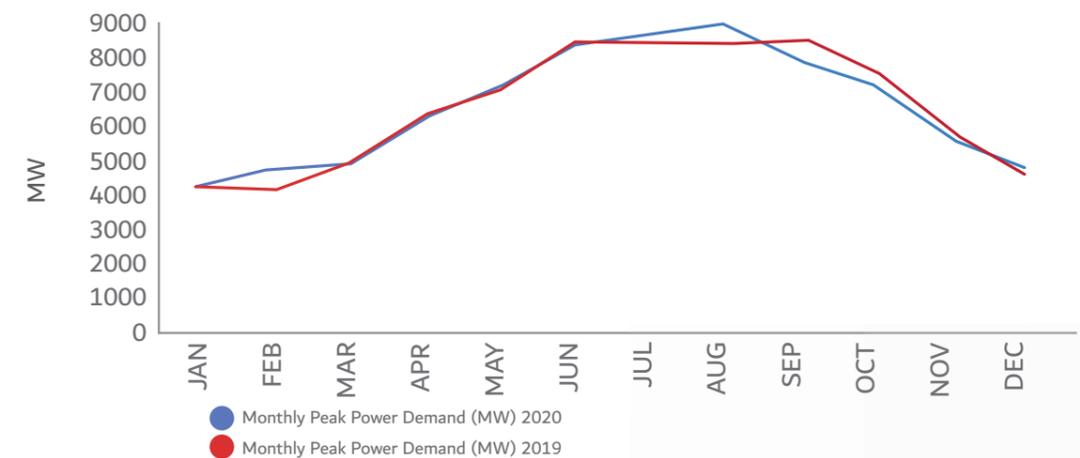


*Others: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA Offices, Staff Premises, etc.)

Electricity		2019	2020
Installed Capacity	MW	11,400	12,300
Gas Turbines	MW	7,975	7,975
Steam Turbines	MW	2,715	2,715
Solar PV	MW	710	1,010
Clean Coal Plant	MW	---	600

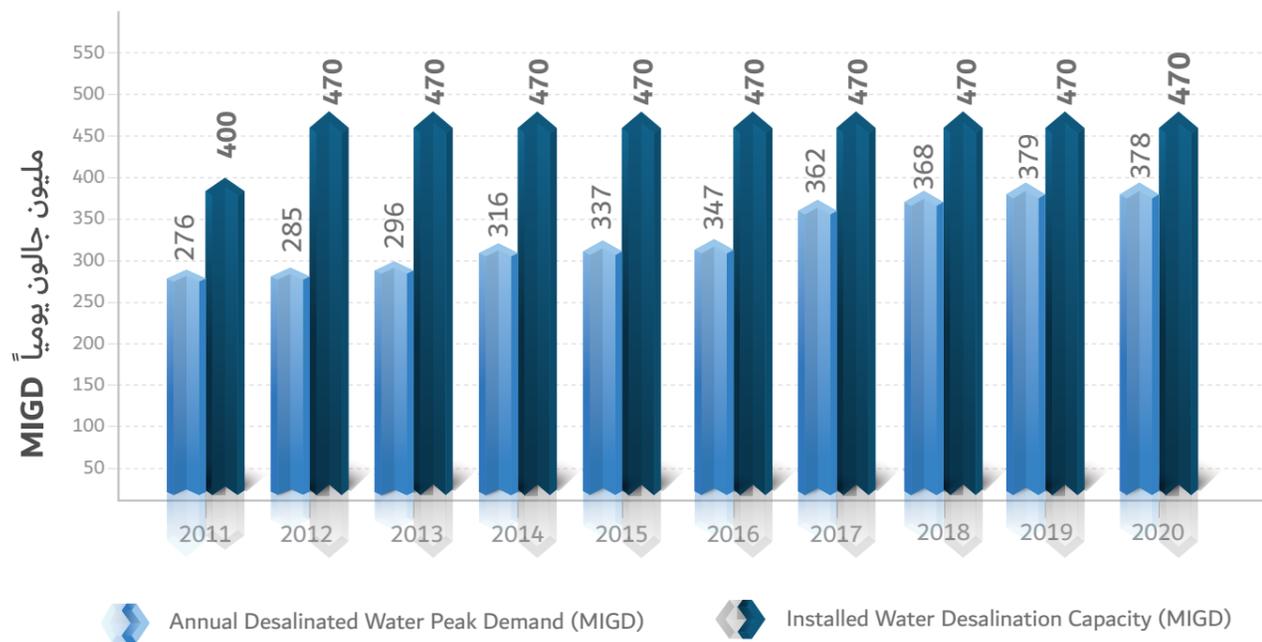


Peak Demand	MW	2019	2020
		8,516	9,074



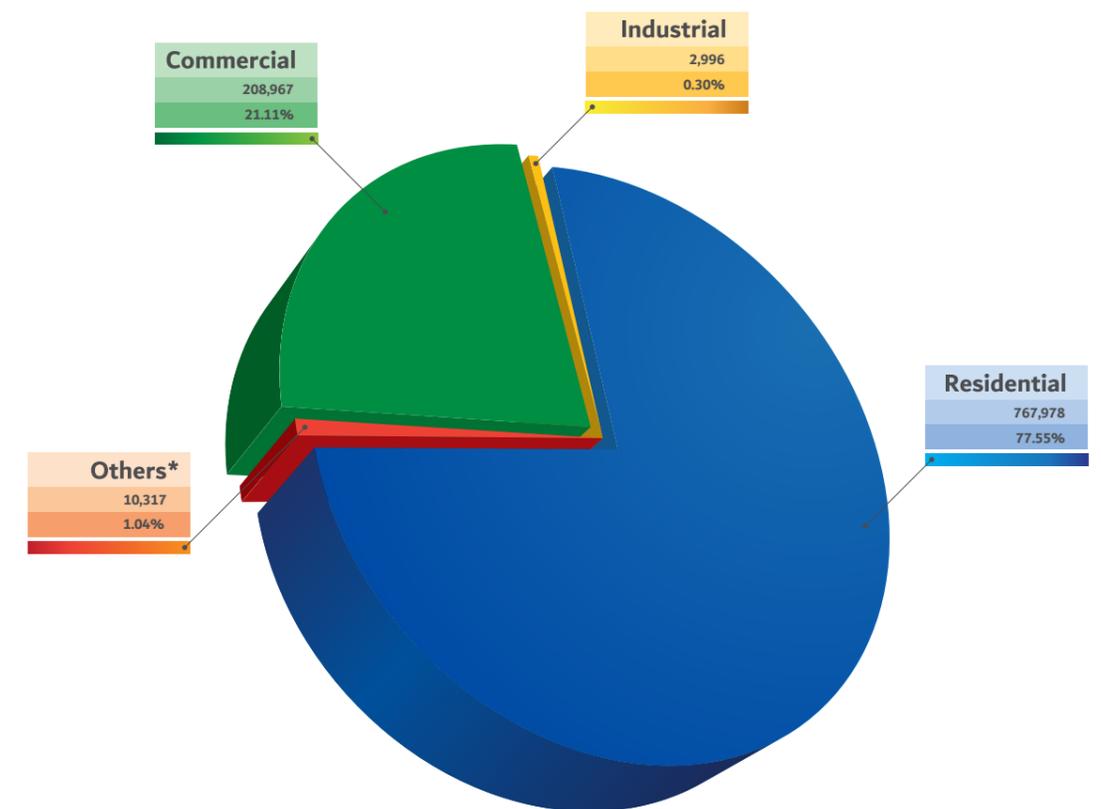
Water		2019	2020
Installed Capacity			
Desalination	MIGD*	470	470
Wells	MIGD*	32	32
Annual Desalinated Water Peak Demand	MIGD*	379	378

*MIGD - Million Imperial Gallons Per Day



NUMBER OF ELECTRICITY CUSTOMERS 2020

Electricity	2019	2020
No. of Customers	915,623	990,258



*Others: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA Offices, Staff Premises, etc.)

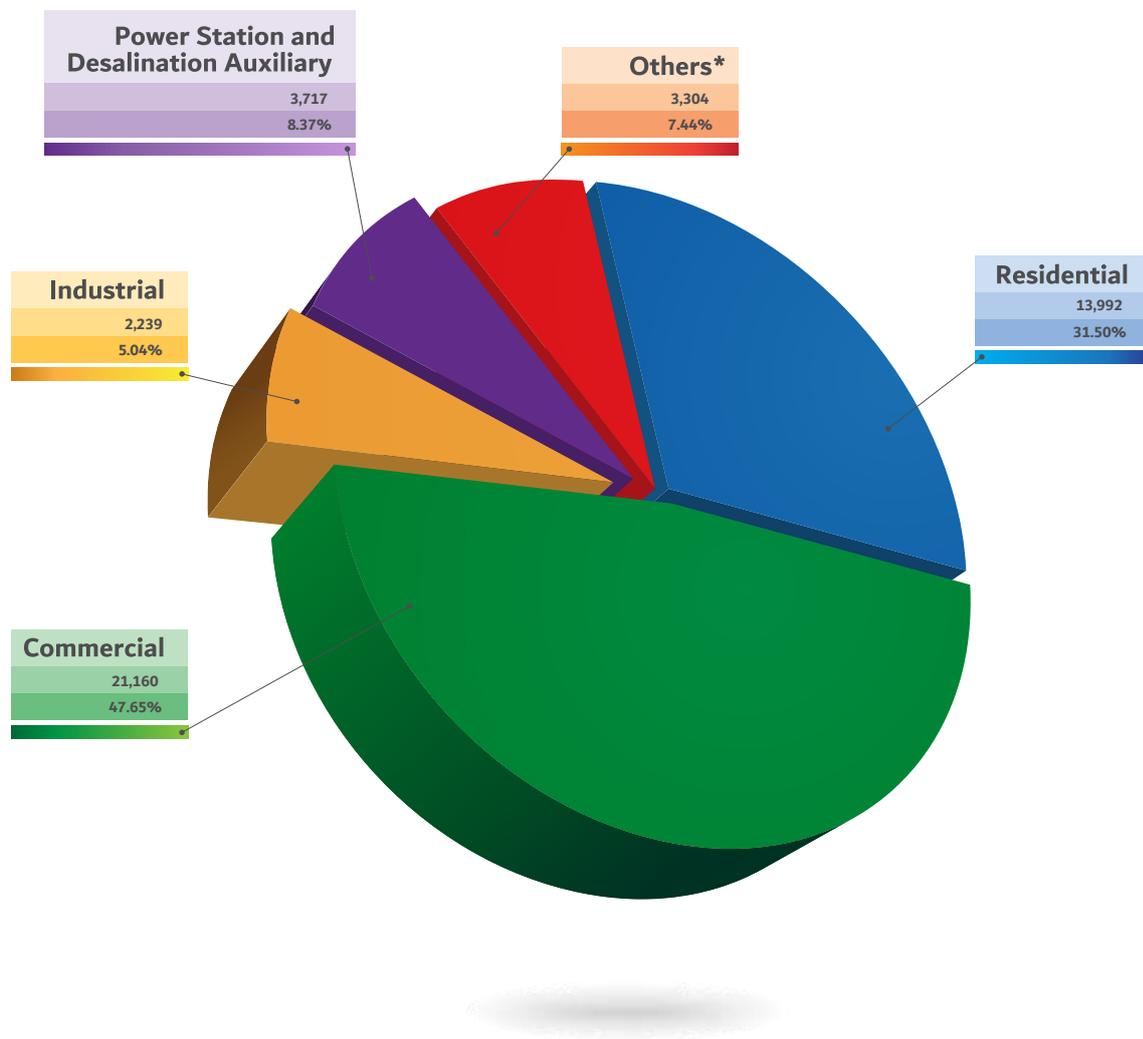
Length of Transmission Pipelines		2019	2020
1200 mm	km	1,217	1,257
900 mm	km	344	344
Reservoirs Capacity	MIG*	815	815

*MIG - Million Imperial Gallons

ELECTRICITY CONSUMPTION (GWH) 2020

Electricity		2019	2020
System Energy Requirement	GWh*	46,704	45,712

*GWh – Gigawatt hour



*Others: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA Offices, Staff Premises, etc.)