

ANNUAL STATISTICS 2017



DEWAOFFICIAL

dewa@dewa.gov.ae | www.dewa.gov.ae



EXPO
2020
DUBAI
UAE

OFFICIAL SUSTAINABLE ENERGY PARTNER

Our Vision

A Sustainable Innovative World-Class Utility

P.O. Box 564, Dubai, United Arab Emirates
T: +971 4 601 9999, F: +971 4 324 2443



“ 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 sustainable innovative world-class utility.

Our Mission

We are committed to the happiness of our stakeholders and promoting Dubai's vision through the delivery of sustainable electricity and water services at a world-class level of reliability, efficiency and safety, in an environment that nurtures innovation, with competent workforce and effective partnerships; supporting resources sustainability.

Our Values

- Stakeholders' Happiness
- Sustainability
- Innovation
- Excellence
- Good Governance

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 strive 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 secure a happy and sustainable future and take the UAE to be number one in all areas.

We have made many local and international achievements, in line with the vision of our wise leadership. The UAE, represented by DEWA, ranked first in the world for getting electricity, as per the World Bank’s Doing Business 2018 report. The extensive report uses multiple criteria to measure the ease of doing business in 190 countries around the world. DEWA also won the Global Excellence Award from the European Foundation for Quality Management (EFQM), as the first organisation outside Europe and the first to win as a first-time applicant of this prestigious award. Through this pioneering achievement, DEWA is now in the platinum category, which is the highest international rank in the Global Excellence Index.

DEWA’s global achievements confirm the success of its effective and sustainable practices in improving energy efficiency on both supply and demand. DEWA succeeded in reducing electricity line losses from 7% to 3.3% and Unaccounted for Water from 42% to 7.1%, which are global benchmarks. We recorded 2.68 Customer Minutes Lost per year compared with 15 minutes for leading utilities in Europe and the USA. The fuel efficiency of DEWA’s latest power plants increased to about 90%. Our generation efficiency increased by 28.86% from 2006 to 2017. DEWA’s investments total AED 81 billion over the next five years, to meet growing demand for electricity and water in the Emirate. This will provide significant investment opportunities, contribute to the growth of the green economy, and create a competitive advantage for the UAE in clean energy and energy efficiency technologies.

While we have made tremendous achievements that are benchmarked internationally, this Statistics Booklet covers our key achievements.

Everyone at DEWA is committed to continuing our journey towards excellence and enhancing our services to achieve the happiness of society; contributing to building a brighter future, for generations to come.

القدرة المركبة لمحطات إنتاج الكهرباء وتحلية المياه

POWER GENERATION & WATER DESALINATION PLANTS INSTALLED CAPACITY

Stations	2017		المحطات
	MIGD*	MW**	
Jebel Ali Station "D"	35	1,027	محطة جبل علي "D"
Jebel Ali Station "E"	25	616	محطة جبل علي "E"
Jebel Ali Station "G"	60	818	محطة جبل علي "G"
Jebel Ali R.O. Desalination Plant	25	-	محطة جبل علي "المناضح العكسي"
Aweer Station "H" – Ph I	-	607	محطة العوير "H" المرحلة الأولى
Aweer Station "H" – Ph II	-	421	محطة العوير "H" المرحلة الثانية
Aweer Station "H" – Ph III	-	968	محطة العوير "H" المرحلة الثالثة
Jebel Ali Station "K"	60	948	محطة جبل علي "K"
Jebel Ali Station "L" – Ph I	70	969	محطة جبل علي "L" - المرحلة الأولى
Jebel Ali Station "L" – Ph II	55	1,432	محطة جبل علي "L" - المرحلة الثانية
Jebel Ali Station "M"	140	2,185	محطة جبل علي "M"
Mohammed Bin Rashid Al Maktoum Solar Park - Ph I	-	10	مجمع محمد بن راشد آل مكتوم للطاقة الشمسية - المرحلة الأولى
Mohammed Bin Rashid Al Maktoum Solar Park - Ph II	-	200	مجمع محمد بن راشد آل مكتوم للطاقة الشمسية - المرحلة الثانية
Total	470	10,200	المجموع

*MIGD - Million Imperial Gallons per Day

**MW - Megawatts

محطات التحويل (النقل والتوزيع)

SUBSTATIONS (TRANSMISSION & DISTRIBUTION)

عدد المحطات الفرعية	2016	2017	Number of Substations
400 كيلو فولت	21	21	400 kV
132 كيلو فولت	222	236	132 kV
33 كيلو فولت	111	104	33 kV
11 & 6.6 كيلو فولت	31,961	33,763	11 & 6.6 kV

أطوال خطوط النقل والتوزيع		Length of Transmission & Distribution Lines	
الخطوط الهوائية			
400 كيلو فولت	كم	1,125	1,125
132 كيلو فولت	كم	413	413
33 كيلو فولت	كم	113	113
الكابلات الأرضية			
400 كيلو فولت	كم	23	23
132 كيلو فولت	كم	1,800	1,867
33 كيلو فولت	كم	2,052	2,075
11 & 6.6 كيلو فولت	كم	29,384	30,917

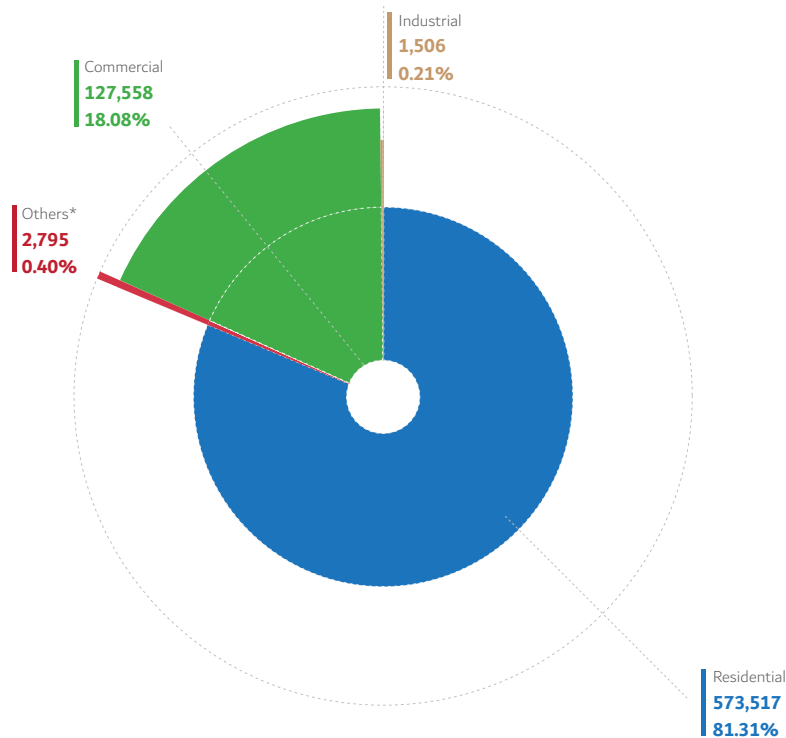




عدد مستهلكي المياه

NUMBER OF WATER CONSUMERS 2017

Water	2016	2017	المياه
Number of Consumers	666,430	705,376	عدد المستهلكين



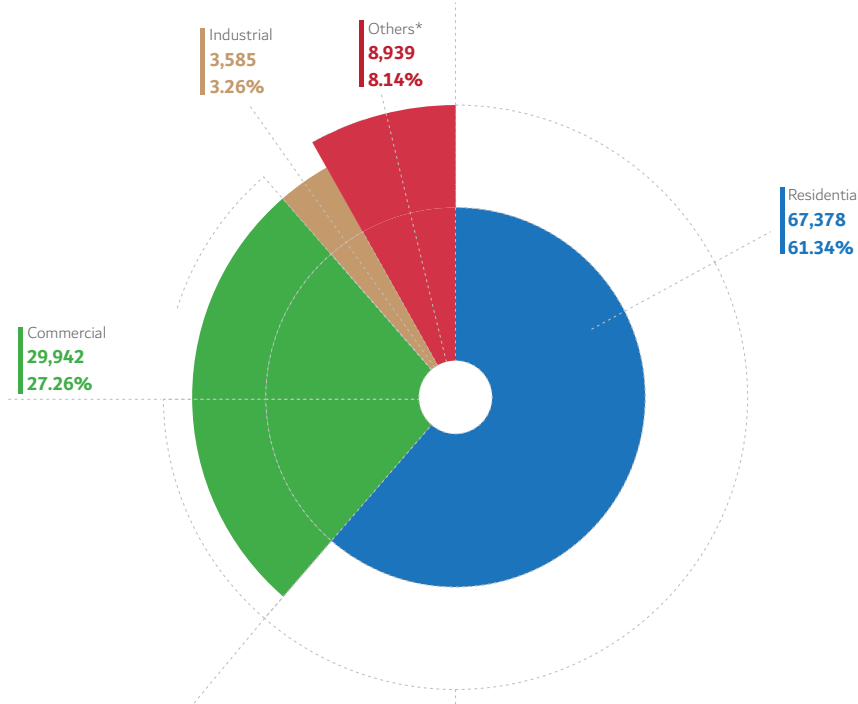
*Others: Non-Commercial (Mosques, Police Stations, Government Hospitals, Government Schools, DEWA Offices, Staff Premises, etc.)

*أخرى: غير التجارية (مساجد، مراكز الشرطة، مستشفيات حكومية، مدارس حكومية، مكاتب ومقرات هيئة كهرباء ومياه دبي)

المياه المستهلكة (مليون جالون)

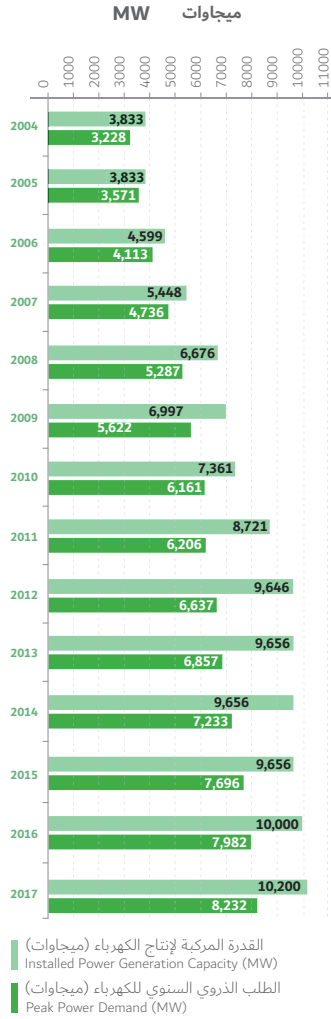
WATER CONSUMPTION (MIG) 2017

Water (Total System Requirement)		2016	2017	المياه (احتياجات المياه)	
Desalinated Water	MIG	116,863	120,810	مليون جالون	المياه المحلاة
Groundwater	MIG	466	460	مليون جالون	المياه الجوفية



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

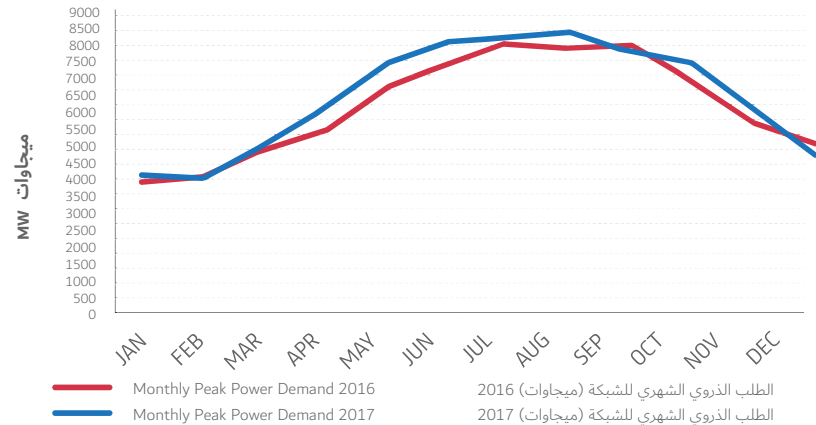
*أخرى: غير التجارية (مساجد، مراكز الشرطة، مستشفيات حكومية، مدارس حكومية، مكاتب ومقرات هيئة كهرباء ومياه دبي)

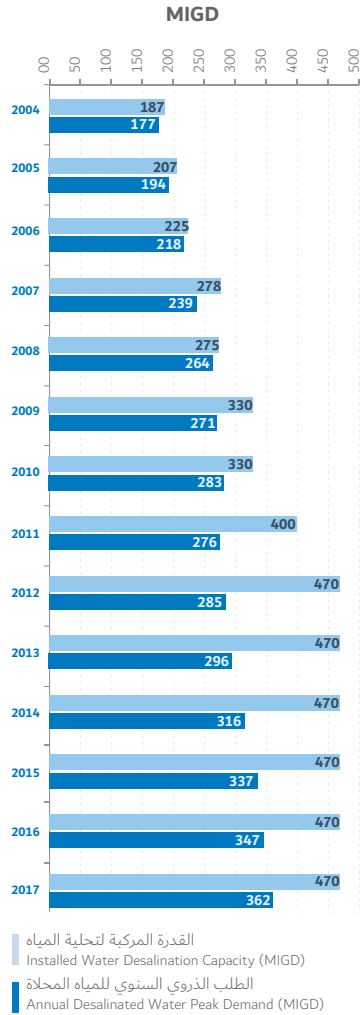


Electricity		2016	2017	ميغاوات	الكهرباء
Installed Capacity	MW*	10,000	10,200	ميغاوات	القدرة المركبة
Gas Turbines	MW*	7,448	7,448	ميغاوات	توربينات غازية
Steam Turbines	MW*	2,542	2,542	ميغاوات	توربينات بخارية
Solar PV	MW*	10	210	ميغاوات	طاقة شمسية كهروضوئية

*MW - Megawatts

Peak Demand	MW	7,982	8,232	(ميغاوات)	الطلب الذروي
-------------	----	-------	-------	-----------	--------------





المياه	2016	2017	المياه
القدرة المركبة	470	470	القدرة المركبة
محطات تحلية المياه	470	470	محطات تحلية المياه
الآبار	32	32	الآبار
الطلب الذروي السنوي للمياه المحلاة	347	362	الطلب الذروي السنوي للمياه المحلاة

*MIGD - Million Imperial Gallons per Day

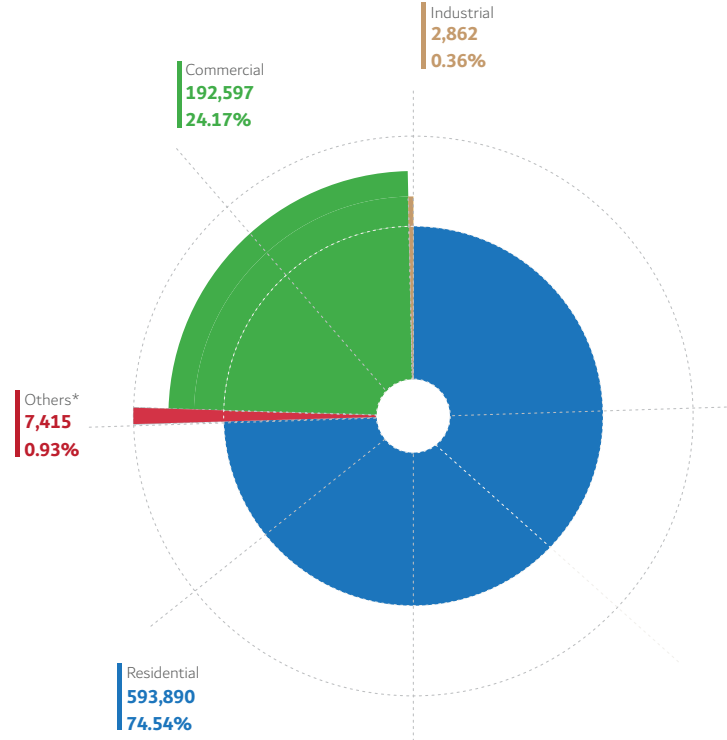
أنابيب النقل	2016	2017	أنابيب النقل
1200 mm	1,157	1,178	1200 mm
900 mm	335	339	900 mm
السعة التخزينية	818	815	السعة التخزينية

*MIG - Million Imperial Gallons

عدد مستهلكي الكهرباء

NUMBER OF ELECTRICITY CONSUMERS 2017

Electricity	2016	2017	الكهرباء
Number of Consumers	752,505	796,764	عدد المستهلكين



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

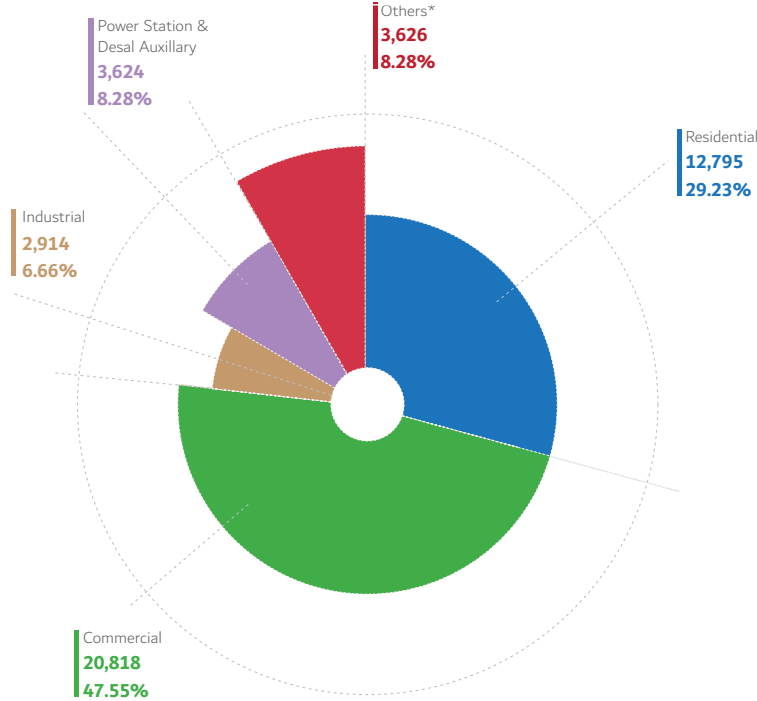
*أخرى: غير التجارية (مساجد، مراكز الشرطة، مستشفيات حكومية، مدارس حكومية، مكاتب ومقرات هيئة كهرباء ومياه دبي)

الكهرباء المستهلكة (جيجاوات ساعة)

ELECTRICITY CONSUMPTION (GWH) 2017

Electricity		2016	2017	الكهرباء
System Energy Requirement	GWh*	43,093	45,162	جيجاوات ساعة الطاقة الكهربائية المطلوبة

*GWh - Gigawatt hours



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

*أخرى: غير التجارية (مساجد، مراكز الشرطة، مستشفيات حكومية، مدارس حكومية، مكاتب ومقرات هيئة كهرباء ومياه دبي)