

توقعات الطلب القصوى على الكهرباء (ميجاوات)

Electricity Peak Demand Forecast (Gross MW)

<b>High Forecast</b>	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Abu Dhabi	2,715	2,779	2,972	3,533	4,357	5,999	7,011	7,725	8,705	9,311	9,785	10,412	10,641	10,798	11,118	11,270	11,412
Al Ain	1,316	1,349	1,400	1,422	1,499	1,612	1,741	1,807	1,923	1,993	2,068	2,136	2,199	2,264	2,324	2,391	2,460
Western Region	386	436	511	725	739	1,267	1,255	1,439	1,513	1,584	1,622	1,661	1,703	1,757	1,793	1,825	1,858
<b>System</b>	<b>4,320</b>	<b>4,455</b>	<b>4,790</b>	<b>5,576</b>	<b>6,474</b>	<b>8,714</b>	<b>9,822</b>	<b>10,769</b>	<b>11,917</b>	<b>12,651</b>	<b>13,227</b>	<b>13,947</b>	<b>14,275</b>	<b>14,545</b>	<b>14,954</b>	<b>15,200</b>	<b>15,441</b>
<b>Base Forecast</b>	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Abu Dhabi	2,715	2,779	2,972	3,100	3,766	5,006	5,956	6,787	7,545	8,310	8,922	9,390	9,739	9,966	10,116	10,387	10,542
Al Ain	1,316	1,349	1,400	1,440	1,517	1,612	1,702	1,721	1,819	1,858	1,920	1,990	2,040	2,103	2,168	2,226	2,295
Western Region	386	436	511	730	738	1,261	1,242	1,379	1,436	1,507	1,537	1,570	1,607	1,636	1,689	1,741	1,772
<b>System</b>	<b>4,320</b>	<b>4,455</b>	<b>4,790</b>	<b>5,180</b>	<b>5,910</b>	<b>7,735</b>	<b>8,735</b>	<b>9,705</b>	<b>10,600</b>	<b>11,460</b>	<b>12,151</b>	<b>12,711</b>	<b>13,139</b>	<b>13,452</b>	<b>13,716</b>	<b>14,089</b>	<b>14,340</b>
<b>Low Forecast</b>	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Abu Dhabi	2,715	2,779	2,972	3,100	3,623	4,538	5,154	5,919	6,729	7,316	8,011	8,579	8,789	9,099	9,296	9,453	9,703
Al Ain	1,316	1,349	1,400	1,440	1,533	1,659	1,746	1,737	1,786	1,813	1,839	1,886	1,935	1,981	2,042	2,109	2,165
Western Region	386	436	511	730	740	1,267	1,246	1,362	1,395	1,445	1,500	1,537	1,577	1,610	1,647	1,687	1,729
<b>System</b>	<b>4,320</b>	<b>4,455</b>	<b>4,790</b>	<b>5,180</b>	<b>5,788</b>	<b>7,327</b>	<b>7,996</b>	<b>8,851</b>	<b>9,728</b>	<b>10,380</b>	<b>11,141</b>	<b>11,781</b>	<b>12,075</b>	<b>12,455</b>	<b>12,745</b>	<b>13,005</b>	<b>13,346</b>

Source: ADWEC Winter 2006 / 2007 Demand Forecast.

## توقعات الطلب القصوى على الماء (مليون جالون/يوم)

## Water Peak Demand Forecast (Gross MGD)

High Forecast	Supply	Supply	Supply	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	2004	2005	2006														
Abu Dhabi	283.0	310.6	333.8	371	388	417	442	468	488	508	529	543	561	579	593	608	626
Al Ain	110.6	151.7	166.4	269	284	305	326	341	352	376	388	425	414	415	435	455	463
Western Region	28.8	65.0	52.9	76	83	90	94	99	102	105	108	111	113	116	119	123	127
<b>Abu Dhabi Emirate</b>	<b>422.5</b>	<b>527.3</b>	<b>553.1</b>	<b>716</b>	<b>754</b>	<b>812</b>	<b>863</b>	<b>908</b>	<b>942</b>	<b>989</b>	<b>1,025</b>	<b>1,079</b>	<b>1,087</b>	<b>1,110</b>	<b>1,147</b>	<b>1,186</b>	<b>1,216</b>
Northern Emirates			7	15	31	36	43	49	50	53	53	57	58	61	67	68	68
<b>Total</b>			<b>560</b>	<b>731</b>	<b>785</b>	<b>848</b>	<b>906</b>	<b>957</b>	<b>992</b>	<b>1,042</b>	<b>1,078</b>	<b>1,137</b>	<b>1,145</b>	<b>1,171</b>	<b>1,214</b>	<b>1,254</b>	<b>1,283</b>
Most Likely Forecast	Supply	Supply	Supply	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	2004	2005	2006														
Abu Dhabi	283.0	310.6	333.8	350	367	396	422	444	465	483	501	518	536	552	567	581	595
Al Ain	110.6	151.7	166.4	233	240	254	265	278	287	296	304	313	321	329	338	347	356
Western Region	28.8	65.0	52.9	73	79	85	89	93	96	98	100	102	104	106	109	111	114
<b>Abu Dhabi Emirate</b>	<b>422.5</b>	<b>527.3</b>	<b>553.1</b>	<b>656</b>	<b>685</b>	<b>735</b>	<b>777</b>	<b>815</b>	<b>848</b>	<b>877</b>	<b>905</b>	<b>934</b>	<b>960</b>	<b>987</b>	<b>1,013</b>	<b>1,039</b>	<b>1,065</b>
Northern Emirates			7.03	11	21	25	29	31	32	33	34	35	36	36	39	40	41
<b>Total</b>			<b>560.2</b>	<b>667</b>	<b>706</b>	<b>760</b>	<b>806</b>	<b>846</b>	<b>880</b>	<b>910</b>	<b>939</b>	<b>968</b>	<b>997</b>	<b>1,023</b>	<b>1,053</b>	<b>1,079</b>	<b>1,105</b>
Low Forecast	Supply	Supply	Supply	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	2004	2005	2006														
Abu Dhabi	283.0	310.6	333.8	328	345	376	402	422	442	457	475	494	508	525	541	553	565
Al Ain	110.6	151.7	166.4	200	198	200	212	210	216	220	234	235	246	247	232	242	260
Western Region	28.8	65.0	52.9	69	75	81	83	86	88	90	92	94	95	96	98	100	102
<b>Abu Dhabi Emirate</b>	<b>422.5</b>	<b>527.3</b>	<b>553.1</b>	<b>597</b>	<b>618</b>	<b>656</b>	<b>696</b>	<b>719</b>	<b>745</b>	<b>767</b>	<b>801</b>	<b>823</b>	<b>848</b>	<b>867</b>	<b>871</b>	<b>895</b>	<b>927</b>
Northern Emirates			7	8	11	16	17	17	18	18	18	18	19	20	20	20	21
<b>Total</b>			<b>560</b>	<b>605</b>	<b>629</b>	<b>673</b>	<b>713</b>	<b>736</b>	<b>763</b>	<b>785</b>	<b>819</b>	<b>841</b>	<b>868</b>	<b>886</b>	<b>891</b>	<b>916</b>	<b>949</b>

Source: ADWEC Winter 2006 / 2007 Demand Forecast.

The demand forecast years shown in grey are when water transmission constraints are expected to constrain water supply to be less than water demand.

Network constraints mean that **Abu Dhabi Emirate's** water demand may exceed water supply.

So for the purposes of forecasting water capacity requirements and auxiliary electricity consumption the following Abu Dhabi Emirate water supply quantities have been assumed.

From 2011 onwards the water demand forecast have been used to forecast water capacity requirements and electricity consumption.

System	Constrained Supply (MGD)			
	2007	2008	2009	2010
	580	592	620	742

## 2006 - 2020 Average Annual Growth Rates

	High	Base	Low
Abu Dhabi	4.6%	4.2%	3.8%
Al Ain	7.6%	5.6%	3.2%
Western Region	6.4%	5.6%	4.8%
Abu Dhabi Emirate	<b>5.8%</b>	<b>4.8%</b>	<b>3.8%</b>

توقعات شركة أبوظبي للماء والكهرباء على الماء و الكهرباء  
السيناريو الأساسي (الأكثر احتمالاً)

**ADWEC Forecast of Electricity & Water Capacities**  
**Base / Most Likely Demand Forecast**

Electricity MW (Gross)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Available Capacity	7,669	8,057	9,245	9,717	11,669	12,506	12,503	12,510	12,510	12,507	12,508	12,506	12,395	12,397	12,395
Demand	4,790	5,180	5,910	7,735	8,735	9,705	10,600	11,460	12,151	12,711	13,139	13,452	13,716	14,089	14,340
Required Capacity	6,134	6,514	7,501	9,364	10,398	11,621	12,510	13,428	14,207	14,786	15,230	15,553	15,826	16,213	16,473
<b>Surplus / Deficit</b>	<b>1,535</b>	<b>1,543</b>	<b>1,744</b>	<b>353</b>	<b>1,271</b>	<b>885</b>	<b>-7</b>	<b>-918</b>	<b>-1,697</b>	<b>-2,279</b>	<b>-2,722</b>	<b>-3,047</b>	<b>-3,431</b>	<b>-3,816</b>	<b>-4,078</b>

ADWEC 2007 - 2020 Statement of Future Capacity Requirements

Note: Capacity is shown at the time of system peak, not at the end of the year.

Water MGD (Gross)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Available Capacity	664	620	664	660	786	835	834	833	832	831	830	830	827	826	825
Demand	553	580	592	620	742	815	848	877	905	934	960	987	1,013	1,039	1,065
Required Capacity	581	612	626	651	779	856	892	927	949	978	1,007	1,030	1,066	1,090	1,113
<b>Surplus / Deficit</b>	<b>83</b>	<b>8</b>	<b>38</b>	<b>9</b>	<b>7</b>	<b>-21</b>	<b>-58</b>	<b>-94</b>	<b>-117</b>	<b>-147</b>	<b>-177</b>	<b>-200</b>	<b>-239</b>	<b>-264</b>	<b>-288</b>

ADWEC 2007 - 2020 Statement of Future Capacity Requirements

Note: Capacity is shown at the time of system peak, not at the end of the year.

For the years 2007 - 2010 network constrained water supply has been used in place of demand.

The demand forecast years shown in grey are when water transmission constraints are expected to constrain water supply to be less than water demand.