

محطات إنتاج الطاقة الكهربائية في جمهورية مصر العربية
Electrical Power Stations in Egypt
شركة القاهرة لإنتاج الكهرباء

Name of Power Station	N.of units	Provided by	Rated capacity MW	date of putting into operation	Type of fuel	Type of cooling	Main parts						
							type	Manufacturere	Rated capacity				
SHOUBRA EL-KHEIMA POWER PLANT (Thermal)	4 (Steam)	Westinghouse (USA)	1260	u1,u2: 1984	Mazout	Hydrogen inner cooled	Boiler	tandurn compound	Ansaldo	1134 ton/hr			
				u3: 1985			Turbine	water tube boiler	westinghouse	315 MW			
		Ansaldo (Italy)		u4: 1988	NG								
		Toshiba (Japan)											
	1 (Gas)	Fiat (Italy)	36	1986	NG		Turbine	REACTION	FIAT TTG	30 MW			
					Special Solar		Generator	TR-2 TURBO GENERATOR - 3-PHASE	ANSALDO	38.5 MVA			
Wadi Hof Power Plant	3 (Gas)	Brown Boveri Co. (B.B.C)	100	1985	NG		Turbine	9, Reaction	Brown Boveri Co. (B.B.C)	3x33.5 MW			
Cairo North Power Plant (Combined Cicle)	6	Misubishi (Japan)	1500	U1, U2,U3 2005/2006	NG		Turbine		(s) Hitashi	1x250 MW			
		Nem (Italy)						(G) Mitsubishi	2x250 MW				
		Hitachi (Japan)						(HRSG) : NEM	2x329 Ton/hr				
	2 (Steam)	Nem (Italy)											
		4 (Gas)		General Electric (USA)			U4, U5, U6: 2006/2008		Turbine		(s) : Alstom	1x250 MW	
				Alstom (France)					Turbine		(G) : (GE)	2x250 MW	
					Boiler		HRSG: (NEM)	2x329 Ton/hr					

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GAIRO WEST POWER PLANT (A)	4 (Steam)	Westinghouse	350	U1,2,3: 1966	MAZOUT	Circulating water (Nile rever)	Turbine	Tow case tandem compound condensing reheat turbine	Westinghouse	4 x 87.5 MW						
		Babcock & Wilox		U4:1979	NG		Boiler	water tube single drum radiant natural circulation reheat boiler	B & W (USA)	4 x 300 ton / hr						
GAIRO WEST POWER PLANT (B) Extension (Thermal)	2 (Steam)	Siemens (Germany)	660	1994-1995	MAZOUT		Turbine	AC Generator hydrogen cooled	Simens	2x 330 MW						
		Sadelmy (Italy)			NG		Boiler		Babcock Hitachi (Japan)	2x 1006t/hr						
Cairo South Power Plant (Combined Cicle)	7	General Electric (USA) Steinmuller (Germany)	735	1957-1965 1987	Mazout	Nile Water	Turbine	Open Cycle	Siemens English Electric	4x60 MW						
	(CC) 1										1995	NG	Turbine	Forcen Cerculation	(GE)	3x110 MW
	4 Steam															
	3 Gas	Siemens (English)		1995	NG	Turbine		(GE)	1x50 MW							
	(CC) 2	VOGT (USA)								Turbine		(GE)	1x 110 MW			
	1 Steam	lentjes		HRSG: (Steinmuller)	1x 190 Ton/hr											
1 Gas																
Tabbin Power Station - EL Tabbin - Helwan	3 ST	Complex - Hungarian - Alstom Atlant	15 MW ST	1958 ST	Mazout NG	Water	Boiler	GIB - M- 75/ 65	Ganz Budapest	75 ton / hr						
							Turbine	Reaction with Regulation Stage	Lang Budapest	15 MW						
							Generator	OG 670* 324012	Ganz Budapest	15 MW						
	2 GT		Turbine	5341 P			Alsthom Atlant	23.1 MW								
			Generator	Package Type NF			Alsthom Atlant	23.1 MW								
			Compressor	Axial Flow			Alsthom Atlant	926500 Lb/hr								

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شركة الوجه القبلي لإنتاج الكهرباء										
El-Kuriemat Power Plant (Thermal)	2 Steam	B & W,	1254	1998	Mazout	Circulating Water (River Water)	Boiler	Radiant , natuaraal circulation, forced draft	BABCOCK & WILCOX	2063 ton/hr
		GE		1999	NG		Turbine	Tandera - compound reheat unit with four -t low pressure	General Electric	2x627 MW
El-Kuriemat Power Plant (Thermal) Combined cycle (test opration)	3 2 Gas 1 steam		500	2007	NG Special Solar		Turbine Turbine		(s) (G)	1x250 MW 2x250 MW
Wallidia Power Plant (Thermal)	2 (steam)	Siemens (Germany)	624	1992	Mazout	water cooling	Boiler	Boiler with drum and forced circulation & tangential firing	Toshiba	1085 ton/hr
				Turbine			TCDF tandene - compound double flow (2) & cylinders reheat turbine	MHI	312MW	
		Sadelmy (Italy)		1997			Boiler	Boiler with drum & natural circulation with TEA firing system	ANSALDO	1052 ton / hr
				Turbine				ANSALDO ABB	312MW	
Assiut	3 (Steam)	ABB, Germany	90	1967	Mazout	Circulating water : River water	Boiler	Natuaraal Circulation , forced draft	Walther	135 ton / hr
				1969			Turbine	TCDF	ABB	3x30 MW
El-Kumrimate Power Plant /II Combined cycle (Thermal)	3		750	2007	NG/Special Solar				Gas Turbine (Simens)	2x250 MW
	2 (Gas Turbines)	Simenes for gas turbine							Hitachi for steam turbine	1x250 MW
	1 Steam Turbine	Hitachi for steam turbine & CMI/Skoda for HRSG							CMI/Skoda for HRSG	507 Ton/hr for HP/ 100Ton/hr for IP/ 75 Ton/hr for LP
El-Kumrimate Power Plant /III Combined	3		500	2008	NG/Special				GE for Gas Turbine	2x250 MW
	2 (Gas Turbines)	Simenes for gas turbine							Alostom for steam turbine	1x250 MW

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Plant/Combined cycle (Thermal)	1 (Steam) in the steam blowing &comissioning stages)	Hitachi for steam turbine &CMI/Skoda for HRSG	250	2008	Solar			CMI/Intec for HRSG	538 Ton/hr for HP steam/ 96Ton/hr for IP steam/ 71 Ton/hr for LP steam

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شركة غرب الدلتا لإنتاج الكهرباء										
Sidi Krir P.S Sidi Krir-Alex - Matroh way	2 (Steam)	Babcock & Wilcox Siemens	640	1999 2000	Mazout	Hydrogen-THDD 108 / 44	Boiler	2*7A - 1x2322	Babcock & Wilcox	2x1100 ton/hr
							Turbine	Steam	Siemens	2x320 MW
Abu Quir Powe Plant (Gas)	1 (Gas)	GE - USA	24	1983	NG Special Solar		Turbine	MS- 5001/R 357	GE - USA	1x24 MW
								Axial flow		
Abu Quir Powe Plant (Thermal)	5(Steam)	Stein Industry Stan Alstom	911	U1,2<3<4: 1983-1984 U5: 1991	Mazout NG	Hydrogen - cooled generator	Boiler	impulse steam	Stein Industry	475 ton / hr
							Turbine		Alstom	1x311MW
Matroh Power Plant (Thermal)	2 (steam)	MHI Ship Building co,Ltd	911	1990	Mazout NG	Sea water	Boiler	impulse steam	Nabom	2x140 t/hr
							Turbine		Mitsui	2x30 Mw
Siouf Power Plant	6 Gas	ABB-Switzwerland Westinghouse	200	U1-2:1981 U3:1982 U4,5:1983 U6:1984	NG Solar	Water	Turbine		ABB Westinghouse	6x33.3 MW
Karmouz Power Plant (thermal)	2 (Gas)	ABB Asea Stal Laval		1980	Special Solar		Turbine		Asea Sweden	2x11.6MW
Damanhour Power Plant (Thermal) (Extension)	1 Steam	Ansaldo	300 MW	1991	Mazout N.G	Hydrogen & Water	Boiler	Elpaso	Ansaldo	1007 ton / hr
		B & W					Turbine	Tandom compound flow	B & W	300 MW

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Damanhour Power Plant (Thermal)	3 Steam	AEG	195	1968-1969	Mazout	Hydrogen	Boiler	Passive Pressure	VET	3x290 ton / hr	
							Turbine	Impluse	AEG	3x65 MW	
Damanhour Power plant (Thermal) (Combined Cycle)	5 1 (Steam) 4 (Gas)	Hitachi GE	158	1985 1995	NG Solar		Boiler	HRSG	NEM	52 ton/hr	
							S.Turbine	Combiexid blade	HITACHI	1x58 MW	
							G.Turbine	Reaction	GE	4x25 MW	
Kafir Eldawar Power Plant (Thermal)	4 (Steam)	Skoda	440	1980-1984 1986	Mazout NG	Hydrogen	Boiler	Negative Pressure	Skoda	4x385 ton / hr	
							Turbine	K 110 - 130	Skoda	4x110 MW	
(Private Sector) Sidi Krir 3.4 Thermal Power Plant	2 (steam)		683	2002	Mazout NG					2x341.25 MW	
Sidi Krir Power Plant Combined Cycle (Thermal)	3		750	2009/2010	NG/Special Solar				Gas Turbine (MHI)	2x250 MW	
	2 (Gas Turbines)	MHI for Gas Turbine								Ansaldo for Steam Turbine	1x 250 MW
	1 (Steam Turbine)	Ansaldo Energea for Steam Turbine & NEM for HRSG								MEM for HRSG	2x 380 Ton/hr
شركة وسط الدلتا لإنتاج الكهرباء											
Mohmodia Power Plant (Thermal) (Combined Cycle)	10 unit	GE	318	1983 1995	NG Solar	Air	Boiler	HRSG	NEM	52 ton/hr	
	2 (steam)							Combiexid blade	GE	2x59 MW	
	8 (Gas)							Reaction	GE	8x25 MW	
Talkha Power Plant (Thermal) (Extenssion)	2 (steam)	Skoda	420	1993 1995	NG Mazout	Hydrogen	Boiler Turbine		Sestutck Turbine	670 ton / hr 2x210 MW	
Talkha Power Plant (Thermal) (Combined Cycle)	10 unit	GE	290	1979-1980 1989	NG Solar	Water cooling system for turbine and generatore	Boiler		HVM	8x47.3 Ton/hr	
	2 (steam)							GE	2x46 MW		
	8 (Gas)							GE	8x24.7 MW		

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Talkha Power Plant (Combined Cycle) (Test Operation)	3 unit	Siemens	500	2006 (Testomg)	NG		S.Turbine		Siemens	1x250 MW
	1 (steam)									2x250 MW
El-Noubaria Power Plant (Thermal (Combined Cycle)	6	Alstom Siemens	1500	2005-2006	Mazout NG		Steam Gas		Alstom Seimens	r 2x250 MW 4x250 MW
	2 (Steam) 4 (Gas)									
Talkha Power plant Combined cycle (Thermal)	3	Siemens for Gas Turbine Alostom for steam turbine & Skoda and CMI for HRSG	750	2006	NG/ Special Solar				Gas Turbine (Siemens)	2x250 MW
	2 (GasTurbines)								Alstom form steam Turbine	1x250 MW
	1 (Steam Turbine)								CMI/Skoda for HRSG	2x380 Ton/hr
Nubaria Power Plant/III Combined cycle (Thermal)	3	GE for Generato Alostom for steam turbine & STF for HRSG	500 250	2009	NG/ Special Solar				GE for Gas Turbine	2x250 MW
	2 (Gas Turbines)								Alostom for Steam turbine	1x250 MW
	1 (steam)								CMI/lintec for HRSG	2x348 Ton/hr
El-Atf Power Plant Combined cycle (Thermal)	3	MHI for gas turbine Ansaldo for steam turbine & NEM for HRSG	500 250	2009	NG/ Special Solar				MHI for Gas turbine	2x250 MW
	2 (GasTurbines)								Ansaldo for steam turbine	1x250 MW
	1 (Steam Turbine)								NEM for HRSG	2x375 Ton/hr

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شركة شرق الدلتا لإنتاج الكهرباء											
Damietta Power Plant (Thermal) (Combined Cycle)	9	Siemens					Boiler		B borsing	240 Ton/hr	
	6 (Gas)	Alstom	1200	1989	NG		S.Turbine		Alstom	3x136 MW	
	3 (Steam)	B Borsing		1993	Solar		G.Turbine		Siemens	6x132MW	
Abu Soltan Power Plant (Thermal) (Combined Cycle)	4 (Steam)	GE	600	1983	Mazout	Hydrogen cooled	Boiler		Foster Wheeler	530 Ton/hr	
				1984			Turbine			GE	4x150MW
				1986							
Ayoun Moussa Soltan Power Plant (Thermal)	2 (steam)	Packages	640	2000	Mazout	Hydrogne Cooled	Boiler		B&W	2090 t/hr	
Sharm El-Sheikh Power Plant (Thermal)	6 (Gas)	Alstom	178	1992-1995-2001	Solar				Alstom	2x23.4MW	
		GE		2003					GE	4x24.2MW	
Hughada Power Plant	6 Gas	GE	143	1991	Solar		Turbine		GE	3x23.5 MW 3x24.3 MW	
Port Said Power Plant	3 (Gas)	GE (USA)	73	1977-1984	Solar		Turbine		GE (USA)	2x23.6 MW	
		Rolls Royce Ltd. (UK)							R.R. (UK)	1x24.6 MW	
Al-Arish Power Plant	2 (Steam)	Packages	66	1995-1996	Mazout		Boiler		BHEL (India)	160 t/hr	
Ataka Power Plant (Thermal)	4 (Steam)	Siemens	900	1985-1986-1987	Mazout	opern Circuit	Boiler			2x485 t/hr 2x1031 t/hr	
							Turbine			2x150MW 2x300MW	
El-Shabab Power Plant (Thermal)	3 (Gas)	ABB	100	1982	Gas				ABB	3x33.5MW	
Power Plant (Thermal)	2 (Steam)		682.5	2002	Mazout					2x341.25 MW	
Est Port Said Power Plant (Thermal)	2 (Steam)		682.5	2003	Mazout					2x341.25 MW	
					NG						

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Hydro Power Plants محطات إنتاج مائية										
High Dam	12		2100	1966-1967						12x175 MW
Aswan (1)	7		322	1960						7x46 MW
Aswan (2)	4		270	1985-1986						4x67.5 MW