

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	date of putting into operation	Type of fuel	Type of cooling	Main parts				
							type		Manufactrere	Rated capacity	
SHOUBRA EL-KHEIMA POWER PLANT	4	ITALY - USA - KOREA - JAPAN - CANADA - HOLLAND	315Mw	1984	Residual oil	Hydrogen inner cooled	Boiler	water tube boiler	Ansaldo	1134 ton/hr	
							Turbine	tandurn compound	westing house	315 MW	
							Generator	hydrogen inner cooled	westing house	437.6 MVR	
					NG		Turbine	REACTION	FIAT TTG	30 MW	
							Generator	TR-2 TURBO GENERATOR - 3- PHASE	ANSALDO	38500 KVA	
							Compressor	AXIAL	FIAT	159 KG/SEC	
GAIRO WEST POWER PLANT (A)	4	WESTINGHOUSE / BABCOCK & WILCOX	4 X 87.5 MW	U1,2,3: 1966 U4:1979	MAZOUT	NG	Circulating water (Nile rever)	Boiler	water tube single drum radiant natural circulation reheat boiler	Babcock & Wilcox	300 ton / hr
								Turbine	Tow case tandem compound condensing reheat turbine	Westing house	87.5 MW
								Generator	AC Generator hydrogen cooled	Westing house	87.5 MW

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Cairo South Power Plant	9 unit		ST.4X60 MW	1957-1964	Gas	Nile Water	Boiler	Forcen Cerculation	Stein Muller Simon-Craves	150 ton/ hr
							Turbine	Open Cycle	Siemens English Electric	60 MW
							Generator	Hydrogen	Siemens English Electric	60 MW
			Boiler 4HRSG	Natural Circulation / Forced Circulation			VOGT - Lentjes	190 ton/hr, 160 ton/hr		
			S.Turbine	Axial Exhaust Steam/ Nile Water (open Cycle)			G.E Siemens- English Electric	59.806 MW - 4x60 MW		
			G.Turbine	MS (9001E)			G.E	113440 KW		
			Compressor	Axial Flow Compressor			G.E	353.95 M3/Sec		
			Generator	Air cooled / Hydrogen			G.E	77400 KVA		
			Turbine	Combination between Impulse and Reaction			G.E	113440 kw		
			Generator	Hydrogen cooled			G.E	142000 KVA		
Compressor	Axial Flow Compressor	G.E	353.95 M3/Sec							
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		23.1MW GT	1979 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
Wadi Hof Power Station - Helwan	3 units	Brown Boveri Co. (B.B.C)	33.5 MW	1985	NG solar No.1	Turbine	9, Reaction	Brown Boveri Co. (B.B.C)	33.5 MW	
						Generator	WY 161 - 004 LLT	Brown Boveri Co. (B.B.C)	50.25 MVA	
						Compressor	9, Axial	Brown Boveri Co. (B.B.C)	158 kg / sec	

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ELKURIEMAT STEAM POWER PLANTM - ELKURIEMAT - ATFEEH, GIZA	2 unitS	GE, B & W, etc	627 Mw	1997	Mazout NG	Circulating Water (River Water)	Boiler	Radiant , natuaraal circulation, forced draft	BABCOCK & WILCOX	2063 ton/hr
							Turbine	Tandera - compound reheat unit with four -t low pressure	General Electric	627 MW
							Generator	3000 rpm, HT23 kv Hydrogen & stator cooling water	General Electric	811.2 MVA
Asslut Thermal Power Plant - Wallidia - Asslut	2 units	MHI & TOSHIBA	2 X 312 MW	U1:1992	Mazout NG	water cooling	Boiler	Boiler with drum and forced circulation & tangential firing	MHI	1085 ton/hr
							Turbine	TCDF tandene - compound double flow (2) & cylinders reheat turbine	Toshiba	300 MW
							Generator	Three phase sychronous generator totally enclosed direct coupled to steam turbine	Toshiba	425 MVA
		ANSALDO & SADELMI		U 2:199			Boiler	Boiler with drum & natural circulation with TEA firing system	ANSALDO	1052 ton / hr
							Turbine	TCDF	ANSALDO	300 MW
							Generator	THAR - 2- 419000	ANSALDO ABB	419 MVA
Assiut Steam Power Plant - Assiut	3 units	ABB, Germany	30 MW	1967	Mazout NG	Circulating water : River water	Boiler	Natuaraal Circulation , forced draft	Walther & Cle	135 ton / hr
							Turbine	DQ2e 42	ABB	30 MW
							Generator	Air cooled WT5721, 37.5 MVA, 3000 rpm, HT , 11 kv, 08PF	ABB	37.5 MVA
شركة غرب الدلتا لإنتاج الكهرباء										
					Mazout	Hydrogen-	Boiler	2*7A - 1x2322	2 Babcock & Wilcox	2x1100 ton/hr

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Sidi Krir P.S Sidi Krir-Alex - Matroh way	2 units	Siemens	2 x 230 MW	U 1: 1999 , U2 : 2000	NG	Hydrogen - THDD 108 / 44	Turbine	Steam	Siemens	320 MW
							Generator	M 127798, M 127799	Siemens	320 MW
Abu Quir P.S Alix Rshid	1	GE - USA	26 MW	1983	Solar		Turbine	MS- 5001/R 357	GE - USA	26 MW
							Generator	Axial flow	GE - USA	
							Compressor		GE - USA	26 MW
Abu Quir P.S Alix Rshid	5 units	GEC ALSTOM	4 X 150 MW	U1-4: 1983- 1984	NG	Hydrogen - cooled generator	Boiler		Stein industry Stan	475 ton / hr
							Turbine	impulse steam	ALSTOM	150 MW
							Generator	THDD 108/44	ALSTOM	
			1X 312 MW	U 5 : 1990			Boiler		Stein industry Stan	1030 ton / hr
							Turbine	impulse steam	ALSTOM	312 MW
							Generator	THDD 108/44	CGEE	
Marsa Matroh P.S	2 units	MIH & Ship building co.,Ltd	2x30 Mw	1990	NG Mazout	Sea water	Boiler		Nabom	140 t/hr
							Turbine	Steam	Mitsui	30 Mw
							Generator		Toshiba	30 Mw
Siouf steam P.S - Alex EL Awaid	4 Ring system	1,2 Siemens	2 X 26 MW	U1-2 :1961	Mazout	Water	Boiler		2 Lengens	2x130 ton / hr
							Turbine		2 Seimens	2 x 26 MW
							Generator	125 CHP / 9	Intersegma	2 x 30 MW
		3,4 Skoda	2 X 30 MW	U3-4:1969			Boiler		3 Berno	3x140 ton / hr
							Turbine		2 Scoda	2 x 30 MW
							Generator	125 CHP / 9	Intersegma	2 x 26 MW
		2,3,4 ABB- Switzerland		U1-2:1981 U3:1982			Turbine	ABB TYPE 9	ABB	33 Mw
							Generator		ABB	

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Siouf Gas Turbine P.S - Alex EL Awaid	6 Units	5,6,7 Westinghouse	6 X 33 MW	U4,5:1983 U6:1984	NG		compressor	W 251 - Axial Flow	ABB	33 Mw
							Turbine		Westinghouse	
							Generator		Westinghouse	
							compressor		Westinghouse	
K armouz P.S	2 Units	ABB - ASEA Stal laval	2 X 125 MW	1980	Special Solar		Turbine			12.5 Mw
							Generator	GTP1050 C.Z	Asea Sweden	12.5 MW
							compressor	W 251 - Axial Flow		33 Mw
Damanhour Power station	1 unit	Insaldo	300 MW	300 MW	H.O N.G	Hydrogen & Water	Boiler	Elpaso	B & W	1007 ton / hr
							Turbine	Tandom compound flow	Insaldo	300 MW
							Generator	THOR - 2.421625.366.22000	Insaldo	421.925 MVA
Damanhour Power station	3 unit	AEG	3 x 65 MW	1968	H.O N.G	Hydrogen	Boiler	Passive Pressure	E.V.T	290 ton / hr
							Turbine	Impluse	A.E.G	65 MW
							Generator	FKWS 3729 P	A.E.G	81.25 MVA
Damanhour Power station	2 unit	VEB	2 x 15 MW	1960	H.O	Hydrogen	Boiler	Negative Pressure	VEB	65 ton / hr
							Turbine	Impluse reaction	EKM	15 MW
							Generator	SG 360/155 AK	EKM	18.75 MVA
							Boiler	HRSRG	NEM	52 ton/hr
							S.Turbine	Combixied blade	GE	58 MW

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Damanhour Combine Cycle	5 unit	Hitachi & GE	4x25 MW & 1x58 MW	1984	L.O G	Air	G.Turbine	Reaction	HITACHI	25 MW
							compressor	Axial	HITACHI	221 kg/sec
							Generator	EFZB1 LA FROM IK	GE	78 MVA
Kafr Eldawar Power station	4 unit	Scoda	4 x 110 MW	1979 - 1925 - 1986	H.O N.G	Hydrogen	Boiler	Negative Pressure	SCODA	385 ton / hr
							Turbine	K 110 - 130	SCODA	110 MW
							Generator	H 9644840/2 HeH	SCODA	137.5 MVA
Mohmodia Combine Cycle	10 unit	GE	8x25 MW & 2x58 MW	1983	L.O N.G	Air	Boiler	HRSG	NEM	52 ton/hr
							S.Turbine	Combixied blade	GE	58 MW
							G.Turbine	Reaction	GE	25 MW
							compressor	Axial	GE	221 kg/sec
							Generator	EFZB1 LA FROM IK	GE	78 MVA
Mohmodia Gas Turbine	4 unit	R.R	4x50 MW	1981	L.O N.G		Turbine	Reaction	R.R	50 MW
							Generator			
							compressor	50.6048714	Persoonal Pepol	60 MVA
شركة شرق الدلتا لإنتاج الكهرباء										
Talkha Power Plant	2 unit	Scoda	210 MW	U1 : 1992, U2 : 1995	G	Hydrogen	Boiler	Water tube with drum	SES TLMACK	670 ton / hr
							Turbine	3- casing impulse ST.T,	Skoda export	210 MW
							Generator	3H 6688/2 VH	Skoda export	210 MW
Talkha Combine Cycle	10 unit (8GT + 2 ST)	GE	24.27 MW (GT) & 2x58 MW (ST)	GT : 1979 , ST : 1989	N.G	Water cooling system for turbine and	Boiler	Natural Circulation Convection Boiler	Hery vogt Machine Company U.S.A	47.3 x 8 ton/hr
							S.Turbine	SCSF STAG (Industrial)	GE (U.S.A)	50 x 2 MW
							G.Turbine	Frame -5 (simple Sytle)	GE (U.S.A)	24.27 x 8 MW
							compressor	Axial flow	GE (U.S.A)	955000LBS/H x 8

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						generatore	Generator	Syn. Generator	GE (U.S.A)	62.5 MVA x 2
							Generator	Syn. Generator	GE (U.S.A)	32 MVA x 8
Damietta Combined Cycle Power Station	9 unit (6 GT + 3C.C)	GT.Siemens C.C.Alstom Boiler.Borsig	(6 x 135 + 3 x 140) MW	GT : 1989 , C.C : 1992	N.G		Boiler	Heat recovery steam generator without subliminary firing (double press)	Babeock - Borsing	HP 59.74 kg/sec - 74kgcm2 491°C LP13.7 kg/sec 4.3kg/cm2-188 °C
							S.Turbine	HP Multistages impulse and counter pressure type LP Multistages Single acting reaction type	Gec- Alstom	140 MW
							G.Turbine	V 94-2 (one shaft)	Siemens	135 MW
							compressor	Axial flow compressor disc type	Siemens	496.77kg/sec at 1.013bar-15°C
							compressor	Axial flow compressor disc type	Siemens	496.77kg/sec at 1.013bar-15°C
							Generator	T 237-370 (Air cooling)	Gec- Alstom	175 MVA
							Generator	TLRI 108/38 (Air cooling)	Siemens	152 MVA
Abu Sultan Power Plant	4 unit	General Electric	150 MW	1983	Residual oil Gas	Hydrogen cooled	Boiler	Single - stage reheat steam N.O.balanced draft	Foster wheeler	530 ton / hr
							Turbine	Reheat double flow	General Electric	150 MW
							Generator	Static Exciter	General Electric	193.235 KVA
Ayoun Moussa Power Plant - Suez City	2 unit	Packages	320 MW	2000	Residual oil Gas	Hydrogen cooled	Boiler	Natural circulation radiant boiler	Babcok & Wilcox	1090 ton / hr
							Turbine	3- casing condensing with reheat, Heat extraction	Siemens	320 MW
							Generator	THDD 108/44	Siemens	320 MW

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Sharm Elsheikh	6 Units	U1,2,3 : Alstom, U4,5,6 : GE	2 x 23.4 MW + 4 x 24.2 MW	U1,2:1992 U3,4:1995 U5:2001, U6:2003	L.O N.G		Turbine	PG5331P	Alstom	23400 KW
							Turbine	MS5000	GE	24200 KW
							Generator	T 174-160	Alstom	29250 KVA
							Generator	5A2	GE	30400 KVA
							compressor	Axial flow	Alstom	
Hurgkada Station	6 Units	GE	3 x 23.45 MW + 3 x 24.27 MW	1991	Solar		Turbine	PG5341 P	GE	23.45 MW
										24.27 MW
							Generator	5 A2	GE	28900 KVA
							compressor	Axial flow - heavy duty	GE	208500 C.F.M
Port Said Power Plant - Elraswa Road South Port Said	3 Units	GE (USA) + R.R (Rolls Royce Limited) (UK)	2X23.96 MW + 1X 24.6 MW	1977 1996 1981	Solar		Turbine	Generator drive	USA	2x23.96 MW
							Turbine	SK 30 Power Turbine	UK	24.6 MW
							Generator	B air coaled open ventilation	USA	28900 KVA
							Generator	(BDAX 7-250)	Brush Electrical Machine.E England	34000 KVA
							compressor	Axial flow - heavy duty	USA	
							compressor	Axial flow type	UK	
Suez Thermal Power Station - Suez	5 Units	ABB	4x22 MW + 1x97 MW	1964 1991	Residual oil Solar	Hydrogen cooled	Boiler	يجري تكهين الغلايات تمهيدا لاعادة تاهيل المحطة		
							Turbine	TMI 14T flash TML 225	ABB Stal turbine generator	97 MW
							Turbine	يجري استكمال التكهين		
							Generator	GTL 1530 GN	ABB Stal turbine generator	97 MW
							Generator	يجري استكمال التكهين		

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Al-Arish Power Plant	2 Units	Packages - E.E.A	33.14 MW	1995 1996	Residual oil Gas Solar	Circulating water	Boiler	Natural circulation	BHEL, India	160 ton/hr
							Turbine	One Cylinder	Fuji, Japan	33.14 MW
							Generator	FTLRI 484/58-2	Fuji, Japan	45000 MVA
Ataka Power Station - Suez	4 Units	Siemens	2x150 MW + 2x300 MW	1985	Residual oil Gas	open circuit	Boiler	Natural circulation	Wagner Biro	485 ton/hr
							Boiler	Forced circulation	Stein	1031 ton/hr
							Turbine	3 casing reheat condensation turbine	Kraftwerk union	150 MW
							Turbine	casing reheat condensation	Siemens	336 MW
							Generator	THOI 93/43	Kraftwerk union	185 MVA
							Generator	THDD/108/53	Fuji, Japan	420 MVA
EL Shabab Power Station	3 Units	ABB (Asia Brown Boveri)	33.5 MW	1982	Gas solar		Turbine	9DINA dual fuel	ABB	34.5 MW
							Generator	WY 16L-044 LLT	ABB	50.25 MVA
							compressor	Axial one shaft (15stages)	ABB	9 bar