

NO.	OK	COMPANY	ABBR.	COUNTRY	REMARKS
001	1	IMPESA	IMP	Argentina	
002	1	AEG-UNION	AEU	Austria	Ex AEG, now ANDRITZ HYDRO
003	1	ANDRITZ HYDRO	AHY	Austria	In business under this name since 2009
004	1	ELIN	ELI	Austria	Now ANDRITZ HYDRO
005	1	OESTERREICHISCHE BROWN-BOVERI-WERKE AG (OEBBW), VIENNA	OBB	Austria	Now ALSTOM
006	1	VA TECH HYDRO	VAT	Austria	Now ANDRITZ HYDRO
007	1	WIENER STARKSTROMWERKE (WSTW)	SIW	Austria	Ex SIEMENS, now ANDRITZ HYDRO
008	1	ACEC (ATELIERS DE CONSTRUCTION ELECTRIQUES DE CHARLEROI)	ACE	Belgium	Now ALSTOM
009	1	ANDRITZ HYDRO INEPAR	AHI	Brazil	Belongs to ANDRITZ HYDRO since June 2008
010	1	ANSALDO COEMSA	ANC	Brazil	
011	1	BROWN BOVERI & CO. BRASIL (BBCB)	BBB	Brazil	
012	1	COEMSA (PORTO ALLEGRE)	COE	Brazil	Founded by WESTINGHOUSE, later ANSALDO, now ALSTOM
013	1	GE HYDRO INEPAR (GEHI)	GHI	Brazil	JV since 1998, belongs now to ANDRITZ HYDRO
014	1	GENERAL ELECTRIC BRASIL S.A. (GEBSA)	GEB	Brazil	
015	1	INDUSTRIA ELETRICA BROWN BOVERI S.A. (IEBB), SAO PAULO	IEB	Brazil	Later ABB, now ALSTOM
016	1	INEPAR	INE	Brazil	
017	1	SADE VIGESA	SAV	Brazil	Now ANDRITZ HYDRO
018	1	SIEMENS LAPA (SAO PAULO)	SIL	Brazil	Later VOITH SIEMENS HYDRO, now VOITH HYDRO
019	1	VILLARES	VIL	Brazil	Now ANDRITZ HYDRO
020	1	VOITH SIEMENS HYDRO (SAO PAULO)	VSS	Brazil	Now VOITH HYDRO
021		WEG MAQUINAS S.A. (JARAGUA DO SUL)	WEG	Brazil	Up to 20 MVA?
022	1	CANADIAN GENERAL ELECTRIC	CAG	Canada	Later GE CANADA, belongs now to ANDRITZ HYDRO
023	1	CANADIAN WESTINGHOUSE (HAMILTON)	CWE	Canada	Later Westinghouse Canada, now VOITH HYDRO
024	1	GE CANADA	CGE	Canada	Was CANADIAN GENERAL ELECTRIC
025	1	GE HYDRO	GEH	Canada	Belongs to ANDRITZ HYDRO since 2009
026	1	MARINE INDUSTRIES LTD.	MIL	Canada	Licensee of ALSTHOM ATLANTIQUE, now ALSTOM
027		MLTHOM	MOM	Canada	Established by MIL and THOMPSON ELECTRIC for coil manufacture under ALSTHOM ATLANTIQUE license, now ALSTOM
028		CHINA CHANG JIANG ENERGY CORP.	CJE	China	Based in Wuhan
029	1	DONGFANG ELECTRIC MACHINERY CO., LTD. (DFEM)	DEM	China	Since January 2008. Formerly Dongfang Electrical Machinery Works, founded in 1958
030	1	FUCHUNJIANG FUJI HYDROPOWER EQUIPMENT CO., LTD. (FFEC)	FFH	China	
031	1	FUJIAN JIUZHOU NANPING ELECTRICAL MACHINERY PLANT	FJN	China	
032	1	GE HYDRO ASIA	GEA	China	
033		GUANGDONG SHAOGUAN ZHONGLI GENERATING EQUIPMENT COMPANY	GSZ	China	
034		HANGZHOU ELECTRIC EQUIPMENT WORKS (HEEW)	HEE	China	Founded in 1956
035	1	HARBIN ELECTRIC MACHINERY CO., LTD. (HEC)	HEC	China	
036	1	HARBIN ELECTRIC MACHINERY WORKS (HEMW)	HEM	China	
037		HUNAN LINGLING GENERATING EQUIPMENT COMPANY	HLG	China	
038		KUNMING ELECTRICAL MACHINERY CO., LTD. (KEM)	KEM	China	Founded in 1936, up to 100 MW?
039	1	KVAERNER HANGFA	KVH	China	JV KVAERNER/HANGZHOU, founded in 1995. 90% were acquired by GE POWER in February 2003, later named GE HYDRO ASIA, now ANDRITZ HYDRO
040	1	LANZHOU ELECTRIC MACHINERY WORKS (LEW)	LEW	China	Up to 65 MW
041	1	NANNING GENERATING EQUIPMENT GENERAL WORKS (NGEGW)	NGW	China	Founded in 1967, up to 100 MW
042	1	SHANGHAI ELECTRICAL MACH. MANUF. WORKS (SEMMW)	SEM	China	Up to 50 MW, hydro activities discontinued in about 1960
043	1	SHANGHAI HYDROPOWER EQUIPMENT COMPANY, LTD. (SHEC)	SHE	China	JV founded in 1994 between SHANGHAI ELECTRIC GROUP CORPORATION, SIEMENS and VOITH, now VOITH HYDRO
044	1	SICHUAN DONGFENG ELECTRIC MACHINERY WORKS CO., LTD. (SDEW)	SDE	China	Founded in 1965, up to 100 MW
045	1	TIANJIN ALSTOM HYDRO CO., LTD. (TAH)	TAH	China	JV ALSTOM/TIANJIN, founded in 1995
046	1	TIANJIN POWER EQUIPMENT MANUFACTORY (TPEM)	TPE	China	Under this name in operation until 1995
047		ZHEJIANG JINHUA ELECTROMECHANICAL COMPANY, LTD.	ZJM	China	
048	1	ZHEJIANG LINHAI ELECTRIC MACHINERY CO., LTD.	ZLM	China	Up to 50 MW
049	1	KONCAR	KON	Croatia	Was RADE KONCAR until 1992
050	1	BRUSH SEM (PILSEN)	BEM	Czech Republic	Ex SKODA
051	1	SKODA	SKO	Czech Republic	
052	1	STROEMBERG	STR	Finland	
053	1	ALSTHOM	ALT	France	Amalgamation of SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES and THOMPSON, now ALSTOM
054	1	ALSTHOM-ATLANTIQUE	ALA	France	
055	1	ALSTHOM-JEUMONT INDUSTRIE (A-J)	ALJ	France	JV between ALSTHOM and JEUMONT in the late 1980s, now ALSTOM
056	1	ALSTOM	ALS	France	Was ALSTHOM, then re-named ALSTOM
057	1	BERNARD & BONNEFOND	BB	France	Founded in 1925, up to 20 MVA
058	1	CEM (COMPAGNIE ELECTRO-MECANIQUE), LE BOURGET	CLB	France	BBC owned until about 1985, now ALSTOM

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059	1	CEM (COMPAGNIE ELECTRO-MÉCANIQUE), NANCY	CNA	France	BBC owned until about 1985, now ALSTOM
060	1	CLEMESY	CLE	France	Up to 15 MW
061		CONVERTEAM	CON	France	Acquired ELECTRIC MACHINERY COMPANY, INC. in 2007
062		JEUMONT	JEU	France	JEUMONT left hydro market in the 1990s
063		JEUMONT-SCHNEIDER	JES	France	Later JEUMONT, now AREVA
064		LEROY-SOMER	LES	France	
065		SOCIETE ALSACIENNE DE CONSTRUCTIONS MÉCANIQUES	SAC	France	Became ALSTHOM after amalgamation with THOMSON
066		THOMSON	THO	France	Became ALSTHOM after amalgamation with SOCIETE ALSACIENNE DE CONSTRUCTIONS MÉCANIQUES
067	1	A VAN KAICK	AVK	Germany	Hydro activities discontinued in about 2008
068	1	AEG (ALLGEMEINE ELEKTRIZITÄTS-GESELLSCHAFT)	AEG	Germany	Later ALSTHOM, then acquired by SIEMENS. Now VOITH HYDRO
069	1	AEG-TELEFUNKEN	AET	Germany	Name change of 068 in 1967 after amalgamation with Telefunken. Later ALSTHOM, then acquired by SIEMENS. Now VOITH HYDRO
070	1	BBC (BROWN BOVERI & CIE. AG), MANNHEIM	BBG	Germany	First ABB, now ALSTOM
071	1	BERGMANN ELEKTRIZITAETSWERKE BERLIN	BEW	Germany	Built hydro generators up to 25 MVA
072	1	GARBE LAHMEYER & CO.	GAL	Germany	
073	1	LLOYD DYNAMOWERKE (LDW)	LDW	Germany	
074	1	SCHORCH	SCH	Germany	
075	1	SIEMENS (BERLIN)	SIE	Germany	Later VOITH SIEMENS HYDRO, now VOITH HYDRO
076	1	SIEMENS (MUELHEIM)	SIM	Germany	
077	1	VEM SACHSENWERK DRESDEN	VEM	Germany	
078	1	VOITH HYDRO	VHY	Germany	In business under this name since April 01, 2009
079	1	VOITH SIEMENS HYDRO	VSH	Germany	The Joint Venture VOITH SIEMENS HYDRO was founded in 2000, renamed to VOITH HYDRO in April 2009
080	1	A.E.I. (ASSOCIATED ELECTRICAL INDUSTRIES LTD.)	AEI	Great Britain	First G.E.C., now ALSTOM
081	1	BRITISH THOMSON-HOUSTON	BTH	Great Britain	First G.E.C., now ALSTOM
082		BRUSH ELECTRICAL MACHINES LTD. (LOUGHBOROUGH)	BRU	Great Britain	
083	1	ENGLISH ELECTRIC COMPANY	EE	Great Britain	First G.E.C., now ALSTOM
084	1	G.E.C. (GENERAL ELECTRIC COMPANY) RUGBY	GEC	Great Britain	Now ALSTOM
085	1	G.E.C. ALSTHOM (G-A)	GA	Great Britain	Now ALSTOM
086		LANCASHIRE DYNAMO & CRYPTO, LTD. (MANCHESTER)	LAN	Great Britain	Now ALSTOM
087	1	METROPOLITAN-VICKERS ELECTRICAL COMPANY (METROVICK or MV)	MV	Great Britain	Now ALSTOM. Trafford Park, Manchester
088	1	PARSONS PEEBLES MACHINES LTD.	PPM	Great Britain	
089		JUPITER HELLAS	JUP	Greece	
090		GANZ ANSALDO	GAA	Hungary	
091		GANZ ELECTRIC	GAN	Hungary	
092	1	BHARAT HEAVY ELECTRIC LIMITED (BHEL)	BHE	India	
093		FARAB	FAR	Iran	
094	1	ANSALDO	ANS	Italy	
095		BARDELLA	BAR	Italy	
096	1	CGE ASGEN	ASG	Italy	
097		CIE (CONSORCIO IMPREGILO ESTRUCO)	CIE	Italy	
098	1	GIE-ANSALDO (GRUPPO INDUSTRIE ELETTRICO)	GIE	Italy	
099	1	MARELLI SPA (ERCOLE MARELLI)	MAR	Italy	
100	1	TECNOMASIO ITALIANO BROWN BOVERI S.A. (TIBB), MILANO	TIB	Italy	
101	1	FUJI ELECTRIC	FUJ	Japan	FUJI ELECTRIC was established in 1923 as a JV between FURUKAWA ELECTRIC and SIEMENS. Hydro activities now belong to VOITH HYDRO
102	1	HITACHI	HIT	Japan	
103		MEIDENSHA CORPORATION	MEC	Japan	Up to 50 MW?
104		MTSUBELEC	MTB	Japan	Another name of MITSUBISHI ELECTRIC CORP. ???
105	1	MITSUBISHI ELECTRIC CORP.	MIT	Japan	
106	1	SHIBAURA ENGINEERING WORKS CO., LTD.	SEW	Japan	1875 TANAKA ENGINEERING WORKS, re-named SHIBAURA in 1904. In 1913: 6250 kVA hydro generator built
107	1	SHINKO ELECTRIC INDUSTRIES CO. LTD.	SHI	Japan	Some cooperation projects with ALLIS-CHALMERS and SIEMENS-ALLIS
108	1	TOKYO ELECTRIC COMPANY, LTD.	TOK	Japan	Established in 1890 and named TOKYO ELECTRIC COMPANY in 1899
109	1	TOKYO SHIBAURA ELECTRIC CO., LTD.	TSE	Japan	Since 1939
110	1	TOSHIBA CORPORATION	TOS	Japan	Merger in 1939 of TOKYO ELECTRIC COMPANY and SHIBAURA ENGINEERING WORKS CO., LTD., named TOKYO SHIBAURA ELECTRIC CO., LTD.
111	1	A/S NORSK ELEKTRISK & BROWN BOVERI (NEBB), OSLO	NEB	Norway	Now ALSTOM
112	1	EB POWER GENERATION	EBP	Norway	After formation of ABB, NEBB and NI merged into EB POWER GENERATION, now part of ALSTOM
113		ELEKTRISK BUREAU (EB)	EB	Norway	Majority share holder of NATIONAL INDUSTRI, now ALSTOM
114	1	NATIONAL INDUSTRI	NI	Norway	NI became EB NATIONAL INDUSTRI, now ALSTOM
115	1	DAEAN HEAVY MACHINERY FACTORY	DAE	North Korea	Up to 125 MW (hydro?)
116	1	DOLMEL	DOL	Poland	Later ABB DOLMEL, now DONAKO S.A.

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117		ELEKTRIM	ELM	Poland	
118		SOREFAME	SOR	Portugal	ALSTOM licensee?
119	1	U.C.M. RESITA S.A.	RES	Romania	
120	1	ELEKTROSILA (ST. PETERSBURG)	ELE	Russia	St. Petersburg
121	1	ELSIB (NOVOSIBIRSK)	ESI	Russia	Former SIB ELECTRO TYAZHMASH
122	1	POWER MACHINES GROUP	PMG	Russia	
123	1	SIB ELECTRO TYAZHMASH (NOVOSIBIRSK)	SIB	Russia	
124	1	URALELECTROTYAZHMASH	UTY	Russia	
125		KOREA HEAVY INDUSTRIES & CONSTRUCTION CO., LTD. (KHIC)	KHI	South Korea	Licensee of ALSTOM
126	1	HYUNDAI IDEAL ELECTRIC CO.	HYU	South Korea	April 2007: Hyundai acquired Ideal Electric Company
127		ABB ESPANA	ABE	Spain	Was CADEMESA. In 1990, CONELEC and CENEMESA were absorbed by ABB
128	1	ALCONZA BERANGO S.L.	ALC	Spain	Up to 15 MVA
129		ALSTHOM-GENERAL ELECTRIC, GALINDO (BILBAO)	AGE	Spain	Later CONELEC, now ALSTOM
130		ALSTOM POWER (GALINDO)	AMP	Spain	Since 2002
131	1	BROWN BOVERI DE ESPANA S.A., SABADELL (BARCELONA)	BBE	Spain	Later CADEMESA, now ALSTOM
132	1	CADEMESA (CATALANA DE MAQUINARIA ELECTRICA, S.A., MADRID)	CAD	Spain	Originally named BBC de Espana
133		CENEMESA	CEN	Spain	Originally named WESA (Westinghouse SA), in 1990 absorbed by CADEMESA
134		CONELEC (CONSTRUCCIONES ELECTROMECANICA), GALINDO (BILBAO)	CEL	Spain	Originally named ALSTHOM-GENERAL ELECTRIC, in 1990 absorbed by CADEMESA
135		GEATHOM	GAT	Spain	GE + SOC. ALSACIENNE + THOMSON-HOUSTON, later CONELEC, now ALSTOM
136		GENERAL ELECTRIC ESPANA (GEE)	GEE	Spain	Later CONELEC, now ALSTOM
137	1	INDAR	IND	Spain	Up to 40 MVA
138	1	SIEMENS CORNELLA (BARCELONA)	SIC	Spain	Now VOITH HYDRO
139	1	WESA (WESTINGHOUSE S.A.), ERANDIO (BILBAO)	WSA	Spain	Later CENEMESA, now ALSTOM
140	1	ASEA	ASE	Sweden	First ABB, now ALSTOM
141		GENERATOR AB	GAB	Sweden	
142	1	VG POWER AB (VAESTERAS)	VGP	Sweden	Founded in October 2002, in October 2006 VOITH HYDRO acquired the majority of VG POWER
143	1	ABB	ABB	Switzerland	Hydro activities acquired by ALSTOM
144		ALIOH & CIE. (SOCIETE D'ELECTRICITE ALIOH)	ALI	Switzerland	1910 BBC
145	1	BBC (BROWN BOVERI & CO., LTD.), BADEN	BBC	Switzerland	First ABB, now ALSTOM
146	1	OERLIKON ENGINEERING COMPANY (ZURICH)	MFO	Switzerland	1967 BBC, now ALSTOM
147	1	SOCIETE ANONYME ATELIERS DE SECHERON (GENEVA)	SEC	Switzerland	1969 BBC, now ALSTOM
148	1	TEMSAN S.A. (TURKISH ELECTROMECHANICS IND. CORP.)	TEM	Turkey	
149	1	ELECTROTYAZHMASH (KHARKOV)	ETY	Ukraine	
150	1	ALLIS-CHALMERS	A-C	USA	Now VOITH HYDRO
151		BULLOCK ELECTRIC & MANUFACTURING COMPANY	BUL	USA	Later ALLIS-CHALMERS. May not have built hydro before the takeover through A-C (1904)
152	1	ELECTRIC MACHINERY COMPANY, INC.	EMC	USA	Now CONVERTEAM (France)
153		ELLIOTT TURBOMACHINERY CO., INC. (EBARA GROUP)	ELT	USA	
154	1	GENERAL ELECTRIC	GE	USA	
155	1	IDEAL ELECTRIC COMPANY	IDE	USA	Went bankrupt, were purchased by HYUNDAI (South Korea)
156	1	RELIANCE ELECTRIC	REL	USA	
157	1	SIEMENS-ALLIS	SIA	USA	
158	1	WESTINGHOUSE ELECTRIC CORPORATOPN (EAST PITTSBURGH)	WE	USA	Now VOITH HYDRO
159	1	RADE KONCAR	RAK	Yugoslavia	Until 1992, now KONCAR (Croatia)
	120	A "1" IN THE OK COLUMN MEANS THAT THE RESPECTIVE COMPANY HAS DEFINITELY MANUFACTURED HYDRO GENERATORS OF 5 MVA AND ABOVE IN ITS HISTORY.			
		STATUS: JULY 31, 2014			