

## OPGW Reference List Worldwide

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
1	India TATA	India	HITACHI OPGW Cable	220	6	13.95	1992
2	United Arab Emirates Wed/KEC	United Arab Emirates	HITACHI OPGW Cable		8	197.08	1993
3	China Taiwan Province Tpc	China Taiwan	HITACHI OPGW Cable		12/18	86.00	1995
4	New Jersey Trans Power	USA	HITACHI OPGW Cable		12	17.65	1996
5	PT Perusahaan Listrik Negara (PLN)	Indonesia	HITACHI OPGW Cable	150	8	166.35	1996
6	Electricity Generating Authority of Thailand (EGAT)	Thailand	HITACHI OPGW Cable	330	10/12/24	194.96	1996
7	Malaysia Unimeker	Malaysia	HITACHI OPGW Cable		12	14.85	1997
8	Pakistan Kesc	Pakistan	HITACHI OPGW Cable	500	16	17.61	1998
9	Mexico Malaysia Unimeker	Mexico	HITACHI OPGW Cable		6	51.38	1998
10	Indonesia Erbindo	Indonesia	HITACHI OPGW Cable	150	8	8.75	1998
11	Poland Power Grid Company	Poland	OPGW-1C 1/24B1(0/30-55.5)	220	24	4.06	May.2003
12	Hochiminh Power Company	Vietnam	OPGW-2S 1/24B1 (96/35-150.3)	110	24	7.10	Aug.2003
13	National Electrical Power Co (NEPCO)	Jordan	OPGW-2S 2/32B1(AA/AS 114/49-201)	400	32	71.00	Jun.2004
14	Poland Power Grid Company	Poland	OPGW-1C 1/48B1 (0/68-38.7)	220	48	46.23	Mar.2004
15	Poland Power Grid Company	Poland	OPGW-2S 2/48B1(59/25-60.5)	220	48	71.13	May.2004
16	Poland Power Grid Company	Poland	OPGW-1C 1/48B1 (0/68-38.7)	220	48	182.00	Sep.2004
17	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (54/27-56.1)	220	24	26.40	Dec.2004
18	Electricity Supply Corporation of Malawi Ltd	Malawi	OPGW-1C1/12B1 (0/66-45.5 )	132	24	262.94	Dec.2004
19	Vietnam Power Company No.1	Vietnam	OPGW-1C 1/12B1(0/51-21.2)	110	12	13.00	Jan.2005
20	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(54/27-56.1) OPGW-2S 2/36B1(54/30-64.6)	330	24/36	105.67	Mar.2005
21	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(59/30-56.4)	220	24	103.67	Feb.2005
22	Electric Supply Company(ESKOM)	South Africa	OPGW-1C1 24B1(0/61-28.3)	132	24	2.00	Aug.2005
23	Botswana Power Corporation/ABB	Botswana	OPGW - 2S 1/24B1(64/36-91.5)	66	24	84.00	Aug.2005
24	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(54/27-56.1) OPGW-2S 2/36B1(54/30-64.6)	220	24/36	34.89	Sep.2005
25	Botswana Power Corporation/ABB	Botswana	OPGW-2S 1/12B1 (34/44-50)	220	12	75.00	Dec.2005
26	Western Power Corporation	Australia	OPGW-16B1D-69	66	16B1	6.50	Jan.2006
27	Electric Supply Company(ESKOM)	South Africa	OPGW-1C 1/12B1 (0/61-35.6)	132	12B1	16.28	Jan.2006
28	Mmsunduzi Electricity Pietermaritzburg	South Africa	OPGW-12B1-112 (66.7;117.5)	132	12B1	3.40	Jan.2006
29	Poland Power Grid Company	Poland	OPGW-2S 1/(20B1+4B4)(59/30-73.1)	330	20B1+4B4	8.54	Feb.2006
30	Poland Power Grid Company	Poland	OPGW-1C1/(20B1+4B4) (0/61-38.6)	330	20B1+4B4	32.74	Feb.2006
31	City Power of Johannesburg SA	South Africa	OPGW-2S 2/48B1(28/49-45.7)	132	48B1	32.50	Feb.2006
32	Vietnam Power Company No.1	Vietnam	OPGW(12B1-61(65.5;25.4))	110	12B1	4.79	Mar.2006

## OPGW Reference List Worldwide (con't)

31	Electricity Du Cambodge	Cambodia	OPGW-2S1/24B1 (39/49-64.8)	230	24B1	203.00	Jun.2006
32	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	6.69	Jun.2006
33	Vietnam Power Company No.2	Vietnam	OPGW-12B1-68(46.6;35.8)	110	12B1	14.00	Jun.2006
34	Electric Supply Company(ESKOM)	South Africa	OPGW-2S1/12B1(71/36-106.9)	132	12B1	13.98	Jun.2006
35	RED ELECTRICA DE ESPAÑA S.A.	Spain	OPGW-36B1+12B4-159(89.1; 223.6)	330	36B1+12B4	11.00	July.2006
36	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(52/30-55,4)	220	24B1	4.73	July.2006
37	Poland Power Grid Company	Poland	OPGW-1C 1/24B1(0/30-55,5)	220	24B1	39.42	July.2006
38	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (54/27-56.1)	220	24B1	26.09	July.2006
39	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (96/35-150.3)	220	24B1	2.56	July.2006
40	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (54/27-56.1)	220	24B1	37.84	July.2006
41	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (83/37-129.3)	220	24B1	2.31	July.2006
42	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (75/28-93.0)	220	24B1	9.94	July.2006
43	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW-2S1/24B1 D(59/29-57.4)	150	24B1	144.00	July.2006
44	Poland Power Grid Company	Poland	OPGW-2S 2/36B1(54/30-64.6)	220	36B1	2.05	Aug.2006
45	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(0/66-56.2)	220	36B1	24.78	Aug.2006
46	Western Power Corporation	Australia	OPGW-2S 1/24B1(121/16-188.4)	132	24B1	3.80	Aug.2006
47	RED ELECTRICA DE ESPAÑA S.A.	Spain	OPGW-36B1+12B4-149(90.2; 189.8)	330	36B1+12B4	11.00	Aug.2006
48	Samsung Electronics Co.,Ltd	Korea	12F,2.6mm,stainless steel tube		12B1	100.00	Sep.2006
49	RED ELECTRICA DE ESPAÑA S.A.	Spain	OPGW-36B1+12B4-159(89.1; 223.6)	330	36B1+12B4	1.10	Sep.2006
50	RED ELECTRICA DE ESPAÑA S.A.	Spain	OPGW-36B1+12B4-149(90.2; 189.8)	330	36B1+12B4	1.10	Sep.2006
51	Endesa S.A.	Spain	OPGW-48B1-115(98.1;87.4)	132	48B1	1.00	Sep.2006
52	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(49/40-69,1)	330	24B1	16.61	Sep.2006
53	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	29.13	Oct.2006
54	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	12B1	16.69	Oct.2006
55	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(54/27-56.1)	220	24B1	9.84	Oct.2006
56	Vietnam Power Company No.1	Vietnam	OPGW 24B1-67(69.6;28.3)	110	24B1	26.53	Oct.2006
57	Vietnam Power Company No.1	Vietnam	OPGW-1C 1/24B1 (0/61;25.5)	110	24B1	6.75	Nov.2006
58	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	5.05	Nov.2006
59	Vietnam Power Company No.2	Vietnam	OPGW -24B1-67(68.0;29.5)	110	24B1	29.00	Dec.2006
60	Vietnam Power Company No.2	Vietnam	OPGW -24B1-79(70.6;44.0)	110	24B1	9.81	Dec.2006
61	Vietnam Power Company No.2	Vietnam	OPGW-1C1/24B1(0/51;19.8)	110	24B1	10.00	Jan.2007

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NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
61	Vietnam Power Company No.2	Vietnam	OPGW-1C1/24B1(0/51;19.8)	110	24B1	10.00	Jan.2007
62	Northern Vietnam Power Project Management Board (NPPMB)	Vietnam	OPGW-12B1-81(74.8;51.1)	220	12B1	183.00	Jan.2007
63	Indonesia Power Company	Indonesia	OPGW-2S1/12B1(59/29-57.4)	150	12B1D	25.60	Jan.2007
64	Western Power Corporation	Australia	OPGW-2S1/16B1(139/34-256.0)	132	16B1	3.20	Jan.2007
65	Vietnam Power Company No.2	Vietnam	OPGW-1C1/24B1(0/61 -25.2)	110	24B1	7.90	Jan.2007
66	Vietnam Power Company No.2	Vietnam	OPGW-2S 1/24B1(0/82-39.4)	110	24B1	14.15	Jan.2007
67	Vietnam Power Company No.2	Vietnam	OPGW-1C1/24B1(0/61 -25.5)	110	24B1	117.00	Jan.2007
68	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	73.13	Feb.2007
69	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-20 G652	380	20B1	3.76	Feb.2007
70	ZKE DYSTRYBUCJA Sp.zo.o.	Poland	OPGW-2S1/24B1(77/36-103.7)	220	24B1	80.00	Feb.2008
71	Poland Power Grid Company	Poland	OPGW-1C 1/24 B1(0/61-43.6)	220	24B1	34.58	Mar.2007
72	Poland Power Grid Company	Poland	OPGW-1C 1/24 B1(0/72-43.7)	220	24B1	2.58	Mar.2007
73	Ceylon Electricity Board	Sri Lanka	OPGW-2S 1/4 B1 (0/89-42.8)	66	4B1	1.00	Mar.2007
74	Vietnam Power Company No.1	Vietnam	OPGW-1C 1/24 B1(0/51-19.8)	110	24B1	9.80	Mar.2007
75	Vietnam Power Company No.1	Vietnam	OPGW-1C 1/12B1(0/51-21.2)	110	12B1	5.89	Mar.2007
76	Western Power Corporation	Australia	OPGW-24B1-148 (51.1, 188.2)	132	24B1	26.90	Mar.2007
77	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	57.27	Mar.2007
78	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-20 G652	380	20B1	7.19	Mar.2007
79	Downer Engineering Power Pty Ltd	Australia	OPGW-24B1-148(51.1;188.2)	132	24B1	5.70	Apr.2007
80	Vietnam Power Company No.2	Vietnam	OPGW-1C 1/24B1(0/65-25.6)	110	24B1	3.80	Apr.2007
81	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	13.08	Apr.2007
82	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-20 G652	380	20B1	18.81	Apr.2007
83	Vietnam Power Company No.2	Vietnam	OPGW-12B1-69(46.8;34.2)	110	12B1	17.94	May.2007
84	Vietnam Power Company No.2	Vietnam	OPGW -24B1-81(76.2;41.3)	110	24B1	20.36	May.2007
85	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (80/30-89,6) OPGW-2S 1/24B1(59/30-56,4)	220	24B1	64.46	Jun.2007
86	Vietnam Power Company No.2	Vietnam	OPGW-24B1-77(80.3;38.5)	110	24B1	31.35	Jun.2007
87	Poland Power Grid Company	Poland	OPGW-2S 1/24 B1 (80/30-89.6)	220	24B1	4.95	Jun.2007
88	Poland Power Grid Company	Poland	OPGW-2S 1/24 B1 (59/30-56.4)	220	24B1	59.50	Jun.2007
89	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	83.19	Jul.2007
90	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(99/62-201.9)	220	24B1	5.21	Jul.2007

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NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
91	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(59/30-56.4)	220	24B1	30.96	Jul.2007
92	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (99/62-201.9)	220	24B1	5.15	Jul.2007
93	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (59/30-56.4)	220	24B1	30.41	Jul.2007
94	Vietnam Power Company No.2	Vietnam	OPGW-12B1-51(61.9;19.8)	110	24B1	9.59	Jul.2007
95	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	23.54	Aug.2007
96	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW 2S1/16B1(97/48-167.6)	150	16B1	65.00	Aug.2007
97	Poland Power Grid Company	Poland	OPGW-2S 1/36B1(59/25-60.5) OPGW-1C 1/36B1(34/34-36.0)	220	36B1	6.71	Aug.2007
98	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(83/29-110.3)	220	24B1	7.25	Aug.2007
99	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(52/30-55.4)	220	24B1	74.85	Aug.2007
100	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW2S1/16B1(97/48-167.6)	150	16B1	65.00	Aug.2007
101	Poland Power Grid Company	Poland	OPGW-2S 2/36B1(59/25-60.5)	220	36B1	1.08	Aug.2007
102	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(34/34-36.0)	220	36B1	5.75	Aug.2007
103	Ca De Administration Fomento Electrico	Venezuela	OPGW-2S 1/24B4(59/30-73.1)	115	24B4	150.00	Aug.2007
104	SKL Group Holding	Cambodia	OPGW-2S1/24B1(39/49-64.8)	230	24B1	12.00	Aug.2007
105	Poland Power Grid Company	Poland	OPGW-2S 1/36B1(85/43-144.8) OPGW-1C 1/36B1(0/66-56.2)	220	36B1	14.44	Sep.2007
106	Poland Power Grid Company	Poland	OPGW-2S 2/36B1(54/30-64.6) OPGW-1C 36B1(0/66-56.2) OPGW-2S 1/36B1(84/36-137.1)	220	36B1	46.67	Sep.2007
107	Poland Power Grid Company	Poland	OPGW-2S 2/36B1(54/30-64.6)	220	36B1	5.88	Sep.2007
108	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(0/66-56.2)	220	36B1	40.31	Sep.2007
109	Poland Power Grid Company	Poland	OPGW-2S 1/36B1(84/36-137.1)	220	36B1	0.48	Sep.2007
110	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/10B1(85/42-131.8)	380	10B1	71.40	Sep.2007
111	Ceylon Electricity Board	Sri Lanka	OPGW-2S 1/2B1(0/89-42.8)	66	2B1	23.00	Sep.2007
112	Maser Communications	Australia	OPGW-2S 2/60B1(91/38-157.1)	132	60B1	7.25	Sep.2007
113	Poland Power Grid Company	Poland	OPGW-2S 1/24B1 (59/30-73.1)	220	24B1	1.60	Sep.2007
114	Poland Power Grid Company	Poland	OPGW-2S 1/36B1(85/43-144.8)	220	36B1	4.42	Sep.2007
115	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(0/66-56.2)	220	36B1	10.02	Sep.2007
116	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW 2S 1/24B1 (0/120;130.2)	220	24B1	2.07	Sep.2007
117	Vietnam Power Company No.2	Vietnam	OPGW-24B1-80(72.7;42.6)	110	24B1	7.72	Sep.2007
118	Fiji Electric Authority	Fiji	OPGW-24B1-148(51.1;188.2)	132	24B1	11.30	Sep.2007
119	Vietnam Power Company No.2	Vietnam	OPGW 24B1-67(69.1;28.3)	110	24B1	5.23	Sep.2007
120	Electricity Generating Authority of Thailand (EGAT)	Thailand	OPGW-36B1-59(50.9;28.2)	330	36B1	248.30	Sep.2007

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NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
121	Tamil Nadu Electricity Board (TNEB) Via BGR	India	OPGW-1C 1/24B1(0/75-36.7) OPGW-2S 1/12B1(58/25-56.8)	220	24B1/12B1	445.00	Sep.2007
122	Electricity Generating Authority of Thailand (EGAT)	Thailand	OPGW-36B1-59(50.9;28.2)	330	36B1	215.16	Sep.2007
123	Vietnam Power Company No.2	Vietnam	OPGW-12B1-85	110	12B1	43.90	Sep.2007
124	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW 12B1-104(88.2;106.8)	220	12B1	78.65	Sep.2007
125	Samsung Electronics Co.,Ltd	Korea	12F,2.6mm,stainless steel tube		12B1	50.05	Oct.2007
126	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(59/30-56.4) OPGW-2S 1/24B1(52/30-55.4)	220	24B1	25.41	Oct.2007
127	Consolidated Power Projects	Congo	OPGW-1C 1/24B1(0/54-17.5)	220	24B1	15.00	Oct.2007
128	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	22.05	Oct.2007
129	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(0/61-27.7)	330	36B1	30.35	Oct.2007
130	Poland Power Grid Company	Poland	OPGW-1C 1/(20B1+8B4)(0/54-36.5)	330	20B1+8B4	0.88	Oct.2007
131	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(59/30-56.4)	330	24B1	2.70	Oct.2007
132	Poland Power Grid Company	Poland	OPGW-2S 1/24B1(52/30-55.4)	330	24B1	22.71	Oct.2007
133	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW-2S 1/24B1(0/120;130.2) OPGW-2S 1 12B1(0/120;130.3)	220	24B1	3.50	Oct.2007
134	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW-2S 1/12B1(0/120;130.2)	220	12B1	25.00	Oct.2007
135	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW 2S1/24B1(59/30-57.9)	150	24B1	16.00	Nov.2007
136	Tanzania Power Company	Tanzania	OPGW-1C 1/16B1(0/58-17.1)	132	16B1	6.00	Nov.2007
137	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW-24B1-61(59.9;34.5)	220	24B1	11.00	Nov.2007
138	Northern Vietnam Power Project Management Board (NPPMB)	Vietnam	OPGW-12B1-61(67.2;25.5)	220	12B1	17.17	Nov.2007
139	Tanzania Power Company	Tanzania	OPGW-1C 1/24B1(0/58-17.1)	132	24B1	6.00	Dec.2007
140	Western Power Corporation	Australia	OPGW-24B1-179(83.9;261.4)	330	24B1	75.76	Dec.2007
141	Burma Power Company	Burma	OPGW-12B1-103(72.2;75.7)	220	12B1	250.90	Dec.2007
142	State Joint - Stock Company Uzbekenergo Unitary Company	Uzbekistan	OPGW-2S 1/12B1(91/46-172.6) OPGW-2S 1/12B1(118/56-282.7) OPGW-1C 1/12B1 (0/72-42.9);4) OPGW-1C 1/24B1(0/72-42.9)	500	12B1/24B1	276.86	Dec.2007
143	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/20B1(85/42-131.8)	380	20B1	86.00	Dec.2007
144	National Grid	Estonia	OPGW-1C 1/48B1(0/65-30.9)	110	48B1	74.73	Dec.2007
145	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(34/34-36.0)	220	36B1	2.97	Dec.2007
146	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW-1C1 1/12B1(0/54-19.0)	220	12B1	5.93	Dec.2007
147	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW-2S1/24B1(59/30-57.9)	150	24B1	27.00	Dec.2007
148	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW-2S1/24B1(59/30-57.9)	150	24B1	4.00	Jan.2008
149	Southern Vietnam Power Project Management Board (SVPPMB)	Vietnam	OPGW-24B1-103(5904;88.3) OPGW-12B1-81(94.6;33.4)	220	24B1/12B1	3.86	Jan.2008
150	Poland Power Grid Company	Poland	OPGW-1C 1/36B1(0/61-27.7)	220	36B1	3.00	Jan.2008

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151	Empresa Nacional De Electricidade(ENE)	Angola	OPGW-1C1/12B1(0/68-55.8)	220	12B1	307.06	Jan.2008
152	Empresa Nacional De Electricidade(ENE)	Angola	OPGW-1C 1/12B1(0/68-55.8)	220	12B1	6.00	Jan.2008
153	Magal Ganga Power	Sri Lanka	OPGW-2S1/2B1(0/89-42.8)	33	2B1	2.00	Jan.2008
154	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652	380	10B1	33.34	Jan.2008
155	Samsung Electronics Co.,Ltd	Korea	12F,2.6mm,stainless steel tube		12B1	110.10	Jan.2008
156	Lanka Power Promoters Pty Ltd	Sri Lanka	OPGW-24B1	33	24B1	25.00	Feb.2008
157	National Grid	Estonia	OPGW-1C 1/48B1(0/65-30,9)	110	48B1	26.28	Feb.2008
158	National Electrical Power Co (NEPCO)	Jordan	OPGW-2S 2/32B1 (0/77-29.9)	132	32B1	33.50	Feb.2008
159	PNOC Energy Development Corporation	Philippines	OPGW-8B1-69(70.2;30.2)	115	8B1	14.00	Mar.2008
160	Auoridad Del Canal De Panama	Panama	OPGW-1C1/24B1(0/68;25.2)	115	24B1	2.15	Mar.2008
161	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8) OPGW-2S1/10B1(85/42-131.8)	380	24B1/10B1	72.82	Mar.2008
162	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW 2S1/24B1(59/30-57.9)	150	24B1	48.00	Mar.2008
163	Vietnam Power Company No.2	Vietnam	OPGW-2S 1/24B1(0/82-39.4)	110	24B1	1.70	Mar.2008
164	ANKABLO ILETKEN METAL INS. SAN VE TIC.LTD.STI.	Turkey	SSLT-2.6/3.0-10 G652 SSLT-2.6/3.0-24 G652	380	24B1/10B1	54.64	Mar.2008
165	ZKE DYSTRYBUCJA Sp.zo.o.	Poland	OPGW-1C1/36B1(0/39-11.7)	220	36B1	64.28	Mar.2008
166	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW 2S1/12B1(59/29-57.4)	150	12B1	32.00	Mar.2008
167	EVN Telecom	Vietnam	OPGW-12B1-79(77.1;14.7)	500	12B1	21.00	Mar.2008
168	Kenya Power and Lighting Co.Ltd (KPLC) contractor :China CAMC Engineering Co., Ltd.	Kenya	OPGW-2S 1/16B1(0/88-68.4)	132	16B1	186.15	Mar.2008
169	Taiwan Power Company	China Taiwan	OPGW-18B1-73(79.1;50.7)	161	18B1	2.10	Mar.2008
170	National transmission corporation(TRANSCO)	Philippines	OPGW-24B1-100	230	24B1	27.00	Mar.2008
171	ESTEC LTDA	Chile	OPGW-24A1a(53.4;81.4)	110	24A1a	2.00	Mar.2008
172	LA JOYA SAC	Peru	OPGW-1C1/12B1(0/68-27.3)	220	12	14.50	Mar.2008
173	Endesa S.A.	Spain	OPGW-48B1-101(60.2-87.4)	132	48B1	13.40	Apr.2008
174	PSE Operator S.A.	Poland	OPGW-2S1/(20B1+4B4)(80/46-159.6) OPGW-2S1/(20B1+4B4)(59/30-73.1)	220	20B1+4B4	43.82	Apr.2008
175	PSE Operator S.A.	Poland	OPGW-2S2/48B1(62/43-75.9) OPGW-1C1-48B1(0/79-46.0) OPGW-1C1-48B1(0/61-21.4)	220	48B1	92.45	Apr.2008
176	PT Perusahaan Listrik Negara (PLN)	Indonesia	OPGW-2S1/24B1(59/30-57.9)	150	24B1	129.00	Apr.2008
177	Endesa S.A.	Spain	OPGW-48B1-101(60;87.4) OPGW-48B1-115(89.0;96.8)	132	48B1	40.25	May.2008
178	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/10B1(85/42-131.8)	154	10B1	17.22	May.2008
179	Western Power Corporation	Australia	OPGW-24B1-148[51.1;188.2]	132	24B1	8.30	May.2008
180	National Transmission & Dispatch CO., Ltd	Pakistan	OPGW-1C1/18B1(0/58-16.3)	220	18B1	108.43	May.2008

## OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
181	CELMEC, S.A	Panama	OPGW-1C1/18B1(0/68-25.2)	230	18B1	23.00	May.2008
182	Vietnam Power Company No.2	Vietnam	OPGW-24B1-72(85.1;25.0)	110	24B1	5.74	May.2008
183	PT Perushan listrik nagara/pt voksel electric tbk	Indonesia	OPGW 2S1/24B1(59/30-57.9)	150	24B1	16.00	May.2008
184	samsung Electronics Co.,Ltd	Korea	12F,2.6mm,stainless steel tube		12B1	109.20	May.2008
185	ZKE DYSTRYBUCJA Sp.zo.o.	poland	OPGW-2S1/24B1(54/28-56.6)	110	24B1	22.93	June.2008
186	ZKE DYSTRYBUCJA Sp.zo.o.	poland	OPGW-2S1/24B1(88/38-150.6)	110	24B1	47.24	June.2008
187	Leader cable industry berhad	Malaysia	AL-SSLT	/	24B1	4.50	June.2008
188	Vietnam Power Company No.2	Vietnam	OPGW-1C1/24B1(0/65-25.6)	110	24B1	1.50	June.2008
189	ZKE DYSTRYBUCJA Sp.zo.o.	Poland	OPGW-2S2/72B1(77/36-103.7)	110	72B1	1.15	June.2008
190	PT Perushan listrik nagara/pt voksel electric tbk	Indonesia	OPGW-2S1/6B1(74/37-75.0)	150	6B1	12.90	Jul.2008
191	LUS DEL SUR	Peru	OPGW-24B1-61(66.7;23.6)	115	24B1	14.50	Jul.2008
192	Poland Power Grid Company	Poland	OPGW-2S1/36B1(69/43-97.9) OPGW-2S2/36B1(59/25-55.3)	220	36B1	6.12	Jul.2008
193	Electricity Generating Authority of Thailand (EGAT)	Thailand	OPGW-36-59[50.9;28.2]	230	36B1	409.73	Jul.2008
194	PT Perushan listrik nagara/pt voksel electric tbk	Indonesia	OPGW-8B1+4B4-73[79.1;33.0]	150	8B1+4B4	83.15	Jul.2008
195	PT Perushan listrik nagara/pt voksel electric tbk	Indonesia	OPGW-8B1+4B4-73[79.1;33.0]	150	8B1+4B4	90.30	Jul.2008
196	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/4B1(85/42-131.8)	154	4B1	42.64	Jul.2008
197	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B4(85/42-131.8)	380	24B4	149.46	Jul.2008
198	Power Grid Corporation of India Limited (PGCIL)	India	OPGW-24B1/80 (76.9; 43.0)	400	24B1	141.00	Jul.2008
199	National transmission corporation(TRANSCO)	Philippines	OPGW-24B1-100	230	24B1	25.20	Jul.2008
200	PT Perushan listrik nagara/pt voksel electric tbk	Indonesia	OPGW-2S1/24B1 (59/30-57.9)	150	24B1	41.56	Jul.2008
201	Endesa S.A.	Spain	OPGW-48B1-65[40.1; 36.8]	110	48B1	15.83	Aug.2008
202	Endesa S.A.	Spain	OPGW-48B1-101[60.2; 87.4]	132	48B1	1.00	Aug.2008
203	National Transmission & Dispatch Co., Ltd	Philippines	OPGW-24B1/80[76.9;43.0]	138	24B1	6.00	Aug.2008
204	Hesfibel	Turkey	SSLT-96B1-4.1/4.7		96B1	1.70	Aug.2008
205	PDVSA	Venezuela	OPGW- 2S1/18B1(59/30-60.5)	230	18B1	6.38	Aug.2008
206	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8)	154	24B1	21.50	Aug.2008
207	Tenke Fungurume Mining	Congo	OPGW-2S2/48B1(53/38-63.2)	66	48B1	60.00	Aug.2008
208	Vietnam Power company No.2	Vietnam	OPGW-1C1/24B1 (0/65-25.1)	110	24B1	47.70	Aug.2008
209	Samsung Electronics Co.,Ltd	Korea	12F,2.6mm,stainless steel tube		12B1	400.40	Aug.2008
210	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8)	380	24B1	32.11	Aug.2008

## OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
211	Poland Power Grid Company	Poland	OPGW-1C1/36B1(0/66-56.2)	330	36B1	31.08	Aug.2008
212	Poland Power Grid Company	Poland	OPGW-2S2/48(63/23-70.7)	330	48B1	2.50	Aug.2008
213	Poland Power Grid Company	Poland	OPGW-1C1/72B1(0/79-57.6) OPGW-2S2/72B1(80/38-130.6)	330	72B1	33.76	Sep.2008
214	Poland Power Grid Company	Poland	OPGW-1C1/36B1(0/66-56.2)	220	36B1	13.06	Sep.2008
215	Electricite du laos	Laos	OPGW - 24B1-56 [44.9;25.7]	115	24B1	48.20	Sep.2008
216	Vietnam Power company No.3	Vietnam	OPGW-1C1/24B1(0/58-25)	110	24B1	4.82	Sep.2008
217	Vietnam Power company No.3	Vietnam	OPGW-24B1-96[91.4;61.5]	110	24B1	1.37	Sep.2008
218	Poland Power Grid Company	Poland	OPGW-2S1/24B1(54/28-56.6)	220	24B1	2.66	Sep.2008
219	Volta River Authority	Ghana	OPGW - 24B1-67 [76.3;24.6]	330	24B1	156.86	Sep.2008
220	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8)	154	24B1	12.98	Sep.2008
221	Nigeria power company	Nigeria	OPGW-2S1/24B1(77/39-126.4)	132	24B1	84.50	Sep.2008
222	Vietnam Power company No.3	Vietnam	OPGW-24B1-69[82.4;25.1]	110	24B1	10.72	Sep.2008
223	Vietnam Power company No.1	Vietnam	OPGW - 12B1-77 (46.5;49.4)	110	12B1	22.01	Sep.2008
224	CELMEC, S.A	Panama	OPGW-1C1/24B4(0/68-25.2)	/	24B4	1.80	Sep.2008
225	PT Perushan Listric Nagara / PT VOKSEL Electric tbk	Indonesia	OPGW-2S1/24B1(59/30-57.9)	150	24B1	12.00	Sep.2008
226	PT Perushan Listric Nagara / PT VOKSEL Electric tbk	Indonesia	OPGW-8B1+4B4-73(79.1;33.0)	150	8B1+4B4	73.70	Sep.2008
227	Hesfibel	Turkey	SSLT 0.3mm(3.6/3.0 36G652D)		36B1	26.00	Sep.2008
228	Hesfibel	Turkey	SSLT 0.3mm(4.7/4.1 96G652D) SSLT 0.3mm(4.1/3.5 60G652D) SSLT 0.3mm(3.6/3.0 36G652D)		96B1 60B1 36B1	58.50	Sep.2008
229	SUNON ASOGLI POWER (GHANA) LTD.	Ghana	OPGW - 18B1-72 (73.4;30.0)	161	18B1	7.20	Sep.2008
230	Poland Power Grid Company	poland	OPGW-2S1/36B1(145/62-377.0) OPGW-2S1/36B1(77/43-138.1) OPGW-2S2/72B1(91/38-168.9) OPGW-1C1/36B1(0/66-56.2)	110	36B1	41.10	Sep.2008
231	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8)	380	24B1	7.35	Oct.2008
232	PT Perushan listric nagara/pt voksel electric tbk	Indonesia	OPGW-2S1/(8B1+4B4)(63/28-77.1)	150	8B1+4B4	3.60	Oct.2008
233	Poland Power Grid Company	Poland	OPGW-2S1/24B1(74/37-173.2) OPGW-1C1/24B1(0/65-53,3)	110	24B1	40.03	Oct.2008
234	Ethiopian Electric Power Corporation(EEPCO) contractor :China CAMC Engineering Co., Ltd.	Ethiopia	OPGW - 2S 1/24B1 (0/89 -53.3) OPGW - 2S 2/48B1 (0/84 -46.4)	230	24B1 48B1	507.074	Oct.2008
235	Vietnam Power company No.3	Vietnam	OPGW-24B1-69(82.4;25.1)	110	24B1	14.70	Nov.2008
236	Electricity Generating Authority of Thailand (EGAT)	Thailand	OPGW-36B1-59(50.9;28.2)	230	36B1	138.80	Nov.2008
237	Consult Construction 3 JSC	Vietnam	OPGW-1C1/12B1(0/61-25.5)	110	12B1	8.95	Nov.2008
238	Matelec,S.A.	Panama	OPGW-24B4-89(72;53)	230	24B4	102.00	Nov.2008
239	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B4(85/42-131.8)	380	24B4	3.90	Nov.2008
240	MINERAL ESPERANZA	Chile	OPGW-1C 1/24B1(0/58-22.8)	110	24B1	13.00	Nov.2008



### OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
241	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/12B1(85/42-131.8)	380	12B1	62.51	Nov.2008
242	National Electrical Power Co (NEPCO)	Jordan	OPGW-2S2/32B1(0/77-29.90)	132	32B1	85.00	Dec.2008
243	EVN Telecom	Vietnam	OPGW-1C 1/12B1 (0/65-28.5)	110	12B1	11.794	Dec.2008
244	PT Perushan Listric Nagara	Indonesia	OPGW 2S1 (8B1+4B4) (63/28-77.1)	150	8B1+4B4	19.49	Dec.2008
245	PT Perushan Listric Nagara	Indonesia	OPGW 2S1/24B1 (59/30 57.9)	150	24B1	16.00	Dec.2008
246	Hai Phong Power Company	Vietnam	OPGW-1C 1/12B1 (0/61-25.5)	110	12B1	1.60	Dec.2008
247	Ethiopian Electric Power Corporation(EEPCO) contractor :China CAMC Engineering Co., Ltd.	Ethiopia	OPGW - 2S 2/48B1 (0/84 -49.9)	400	48B1	505.80	Jan.2009
248	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW - 2S 1/24B1 (85/42 -131.8 )	380	24B1	58.20	Jan.2009
249	PROPERTY OF THE ELECTRICITY COMPANY OF GHANA	GHANA	OPGW - 24B1-88 [71.4;49.2]	161	24B1	8.00	Jan.2009
250	Poland Power Grid Company	Poland	OPGW - 2S 2/48B1 (39/45 - 53.5)	110	48B1	65.33	Jan.2009
251	CAME	Peru	OPGW-24B1-69(73.2;28.0)	/	24B1	85.00	Jan.2009
252	RED ELECTRICA DE ESPA	Spain	OPGW-48B1-115 [93.7;86.8] OPGW-48B1-177 [105.9;226.8]	/	48B1	45.847	Feb.2009
253	PSE Operator S.A.	Poland	OPGW - 2S 1/(20B1 + 4B4) (64/32-92.8)	220	20B1 + 4B4	8.591	Feb.2009
254	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8) OPGW-2S1/10B1(85/42-131.8)	380	24B1/10B1	60.46	Feb.2009
255	Poland Power Grid Company	Poland	OPGW - 2S 1/24B1 (54/28-67.4) OPGW - 2S 1/24B1 (69/43 - 113.8)	220	24B1	37.42	Feb.2009
256	HASCELIK	Turkey	2.6mm/3.0mm Stainless steel tube with 24 G.655	/	24B4	1.40	Feb.2009
257	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	100.00	Feb.2009
258	Power Grid Company of Bangladesh Ltd	Bengal	OPGW - 1C 1/12B1 (0/54 -25.5)	132	12B1	6.20	Feb.2009
259	Vietnam Power company No.1	Vietnam	OPGW - 1C 1/12B1 (0/61 - 25.2)	110	12B1	14.984	Mar.2009
260	SEHF-KOREA CO., LTD	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	100.10	Mar.2009
261	SEHF-KOREA CO., LTD	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	100.10	Mar.2009
262	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/10B1(85/42-131.8)	154	10B1	37.122	Mar.2009
263	Central Electricity Board (C.E.B.)	Mauritius	OPGW - 2S 1/32B1 (69/43 -113.8 )	210	32B1	96.15	Mar.2009
264	RED ELECTRICA DE ESPA	Spain	OPGW-48B1-115 [93.7;86.8] OPGW-48B1-177 [105.9;226.8]	132	48B1	83.022	Mar.2009
265	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	100.10	Mar.2009
266	Ethiopian Electric Power Corporation(EEPCO) contractor :China CAMC Engineering Co., Ltd.	Ethiopia	OPGW -2S 2/48B1(0/84-49.9)	230	48B1	212.44	Mar.2009
267	PSE Operator S.A.	poland	OPGW - 1C 1/48B1 (0/72-60.7) OPGW - 2S 2/48B1 (64/27-84.3) OPGW - 2S 2/48B1 (71/50-144.9)	110	48B1	82.704	Mar.2009
268	SAMSUNG	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	50.05	Apr.2009
269	National Electrical Power Co (NEPCO)	Jordan	OPGW - 2S 2/32B1 (0/77 -30.2 )	132	32B1	134.00	Apr.2009

### OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
270	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/12B1(85/42-131.8) OPGW-2S1/24B1(85/42-131.8) OPGW-2S2/48B1(85/35-120.4)	stock	12B1/24B1/48B1	12.70	Apr.2009
271	SAMSUNG	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	50.05	Apr.2009
272	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/12B1(85/42-131.8)	154	12B1	25.70	Apr.2009
273	Vietnam Power company No.1	Vietnam	OPGW - 2S 1/24B1 (27/55-52.7)	110	24B1	24.7407	Apr.2009
274	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	300.30	Apr.2009
275	PPG	poland	OPGW-2S 1/36B1 (77/43 - 138.1) OPGW-2S 1/36B1 (122/62 - 283.8)	220	36B1	10.64	Apr.2009
276	EDNS Telecomms	South Africa	OPGW-2S 1/24B1 (68/30 - 89.6)	230	24B1	2.60	Apr.2009
277	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1-24B1(85/42-131.8)	154	24B1	22.53	May.2009
278	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	200.20	May.2009
279	Vietnam Power company No.1	Vietnam	OPGW-1C 1/12B1 (0/68-27.3)	110	12B1	1.41	May.2009
280	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/10B1(85/42-131.8) OPGW-2S1/12B1(85/42-131.8)	154	10B1/12B1	10.192	May.2009
281	National Electricity Corporation	Zambia	OPGW - 2S 1/24B1 (27/55 -43.8 )	220	24B1	1.310	May.2009
282	Ethiopian Electric Power Corporation(EEPCO) contractor :China CAMC Engineering Co., Ltd.	Ethiopia	OPGW -2S 2/48B1(0/84-49.9)	230	48B1	87.395	May.2009
283	ESKOM	South Africa	OPGW - 2S 1/48B1 (83/52 -151.2 )	220	48B1	2.000	Jun.2009
284	NTDC, Pakistan	Pakistan	OPGW - 1C 1/18B1 (0/58-16.3)	110	18B1	149.000	Jun.2009
285	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	350.800	Jun.2009
286	PSE Operator S.A.	poland	OPGW-2S 1/48B1 (83/52-166.4)	220	48B1	45.03	Jun.2009
287	PSE Operator S.A.	poland	OPGW-2S 1/24B1 (59/30-66.6)	220	24B1	39.76	Jun.2009
288	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B4(85/42-131.8)	154	24B1	155.71	Jun.2009
289	PSE Operator S.A.	poland	OPGW - 1C 1/(20B1+8B4)(0/54-36.5)	220	20B1/8B4	1.90	Jun.2009
290	PSE Operator S.A.	poland	OPGW - 2S 2/(40B1+8B4) (57/50-90.2) OPGW - 1C 1/(40B1+8B4) (0/75-47.5)	220	40B1/8B4	33.69	Jun.2009
291	Vietnam Power company No.1	Vietnam	OPGW-24B1-73[58.2;38.2]	110	24B1	1.69	Jun.2009
292	Endesa S.A.	Spain	OPGW - 96B1-95 [59.3;87.9]		96B1	12.45	Jun.2009
293	Volta River Authority	Ghana	OPGW - 24B1-67 [76.3;24.6]	330	24B1	88.11	Jun.2009
294	PSE Operator S.A.	poland	OPGW-1C1/(40B1+8B4)(0/75-47.5)	220	40B1/8B4	46.94	Jun.2009
295	SAMSUNG	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	200.20	Jun.2009
296	PSE Operator S.A.	poland	OPGW - 1C 1/36B1 (0/66-56.2)	220	36B1	8.30	Jun.2009
297	EVN Telecom	Vietnam	OPGW 1/C1 24B1-(0/61-25.5)	110	24B1	0.40	Jul.2009
298	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8) OPGW-2S1/24A1a(85/42-131.8)	154	24B1/24A1a	8.60	Jul.2009
299	Endesa S.A.	Spain	OPGW-48B1-65[40.1;36.8]	/	48B1	1.40	Jul.2009
300	Endesa S.A.	Spain	OPGW-48B1-101[60.2;87.4]	/	48B1	19.46	Jul.2009

## OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
301	PT Perushan Listric Nagara	Indonesia	OPGW -2S1 (8B1+4B4) (63/28-77.1)	150	8B1/4B4	43.00	Jul.2009
302	PSE Operator S.A.	poland	OPGW-2S 2/24B1 (59/25-60.5) OPGW-2S 2/36B1 (59/25-60.5)	220	24B1/36B1	55.59	Jul.2009
303	ZANZIBAR ELECTRICITY	Tanzania	OPGW - 1C 1/24B1 (0/72 -36.7 )	/	24B1	17.36	Jul.2009
304	PSE Operator S.A.	poland	OPGW - 2S 1/24B1 (44/45-67.0)	220	24B1	2.12	Jul.2009
305	SAMSUNG	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	200.20	Jul.2009
306	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1(85/42-131.8)	154	24B1	50.78	Jul.2009
307	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1-12B1(85/42-131.8)	154	12B1	19.95	Jul.2009
308	ESKOM	South Africa	OPGW - 2S 1/24B1 (68/30 -89.6 )	66	24B1	1.30	Jul.2009
309	National Electric Power Company	Jordan	OPGW - 2S 2/32B1 (0/77 -30.2 )	132	32B1	37.00	Aug.2009
310	PSE Operator S.A.	poland	OPGW-2S 1/24B1 (80/30-116.2) OPGW-2S 1/24B1 (145/62-437.9) OPGW-2S 1/24B1 (85/43-166.5)	/	24B1	15.09	Aug.2009
311	Hai Duong Power Company (HDPC)	Vietnam	OPGW - 1C 1/12B1 (0/68 -27.3 )	110	12B1	5.95	Aug.2009
312	COLLAHUASI	Chile	OPGW-1C 1/24B1(0/65;22.6)	/	24B1	11.50	Aug.2009
313	PSE Operator S.A.	poland	OPGW - 1C 1/(40B1+8B4) (0/75 -47.5) OPGW-2S 2/(40B1+8B4) (57/50-90.2)	/	40B1/8B4	21.44	Aug.2009
314	Minera Esperanza	Chile	OPGW-1C 1/48B1(0/61-25.5)	220	48B1	201.12	Aug.2009
315	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	100.10	Aug.2009
316	Song Bung 4 HPP Joint Company	Vietnam	OPGW - 1C 1/12B1 (0/68-37.4) OPGW - 1C 1/12B1 (0/72-47.1)	110	12B1	15.64	Aug.2009
317	CPPMB	Vietnam	OPGW-24B4-118	500	24B4	10.00	Aug.2009
318	Electricity Generating Authority of Thailand (EGAT)	Thailand	OPGW-36B1-59 [50.9;28.2]	115	36B1	30.29	Aug.2009
319	ESKOM	South Africa	OPGW - 2S 1/24B1 (68/30 -89.6 )	132	24B1	10.00	Aug.2009
320	ESKOM	South Africa	OPGW - 1C 1/12B1 (0/54 -16.1 )	132	12B1	15.50	Aug.2009
321	Water&Electricity Bureau, Burma State Power Co.	Burma	OPGW- 12B1-103 [72.2;75.7]	/	12B1	1.15	Aug.2009
322	National Electric Power Company	Jordan	OPGW - 2S 2/32B1 (0/77 -30.2 )	132	32B1	37.00	Sept.2009
323	TPC, Taiwan	Taiwan	OPGW -2S 1/18B1 [0/89-70.9]	345	18B1	0.80	Sept.2009
324	Ceylon Electricity Board	Sri Lanka	OPGW - 1C 1/24B1 (0/72 -41.5 )	132	24B1	11.00	Sept.2009
325	PSE Operator S.A.	Poland	OPGW-2S 1/24B1 (80/30-116.2) OPGW-2S 1/24B1 (145/62-437.9) OPGW-2S 1/24B1 (85/43-166.5)	110	24B1	15.09	Sept.2009
326	Hai Duong Power Company (HDPC)	Vietnam	OPGW - 1C 1/12B1 (0/68 -27.3 )	110	12B1	5.59	Sept.2009
327	COLLAHUASI	Chile	OPGW-1C 1/24B1(0/65;22.6)	220	24B1	11.50	Sept.2009
328	PSE Operator S.A.	Poland	OPGW - 1C 1/(40B1+8B4) (0/75 -47.5 ) OPGW-2S 2/(40B1+8B4) (57/50-90.2)	110	40B1+8B4	21.438	Sept.2009
329	Samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	100.1	Sept.2009
330	Song Bung 4 HPP Joint Company	Vietnam	OPGW - 1C 1/12B1 (0/68-37.4) OPGW - 1C 1/12B1 (0/72-47.1)	110	12B1	15.635	Sept.2009

### OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
331	Power Grid Corporation of India Limited (PGCIL) via BGR	India	OPGW-24B1/80 (76.9; 43.0)	400	24B1	6.817	Sept.2009
332	NGCP	Philippines	OPGW-24B1/80 [76.9;43.0]	138	24B1	7.00	Sept.2009
333	Vietnam Power company No.1	Vietnam	OPGW-12B1-66 [68.4;25.4]	110	12B1	11.292	Sept.2009
334	Vietnam Power company No.1	Vietnam	OPGW-12B1-80[82.7;38.5]	110	12B1	24.665	Sept.2009
335	Vietnam Power company No.1	Vietnam	OPGW-12B1-80[69.1;44.3] OPGW-12B1-85[83.1;43.5]	110	12B1	50.395	Sept.2009
336	NATIONAL ELECTRICITY CORPORATION (NEC) by TBEA	Sudan	OPGW - 2S 1/24B1 (0/98 -65.6 )	220	24B1	323.706	Sept.2009
337	ESKOM	South Africa	OPGW - 2S 1/24B1 (89/62 -229.9 )	132	24B1	9.00	Sept.2009
338	Kenya Power and Lighting Co.Ltd (KPLC) contractor :China CAMC Engineering Co., Ltd.	Kenya	OPGW-2S 1/16B1(0/88-68.4)	132	16B1	0.50	Sept.2009
339	PROPERTY OF THE ELECTRICITY COMPANY OF GHANA	Ghana	OPGW - 24B1-88 [71.4;49.2]	/	24B1	6.00	Sept.2009
340	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 2.6/3.0 24G652D SSLT 2.6/3.0 20G652B SSLT 2.6/3.0 24G655	154	24G652D/ 20G652B/ 24G655	15.675	Oct.2009
341	Minera Esperanza	Chile	OPGW-1C 1/(24B1+12B4)(0/65-28.5)	220&110	24B1+12B4	60.00	Oct.2009
342	Minera Esperanza	Chile	OPGW-1C 1/(24B1+12B4)(0/65-28.5)	220&110	24B1+12B4	151.12	Oct.2009
343	Mum Hum HPP	Vietnam	OPGW - 1C 1/24B1 (0/51 - 19.8 )	220	24B1	29.181	Oct.2009
344	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/10B1(85/42-131.8) OPGW-2S1/20B1(85/42-131.8)	154	10B1/20B1	61.92	Oct.2009
345	PT Perushan Listic Nagara	Indonesia	OPGW-2S1/24B1 (59/30 - 57.9)	150	24B1	2.30	Oct.2009
346	PT Perushan Listic Nagara	Indonesia	OPGW - 2S1 (8B1+4B4) (63/28-77.1)	150	8B1+4B4	1.20	Oct.2009
347	CUA DAT HPP	vietnam	OPGW - 1C 1/24B1 (0/65 -25.1 )	110	24B1	1.50	Oct.2009
348	PT Perushan Listic Nagara	Indonesia	OPGW-2S1/24B1 (59/30 - 57.9)	150	24B1	28.00	Oct.2009
349	PT Perushan Listic Nagara	Indonesia	OPGW-2S1/24B1 (59/30 - 57.9)	150	24B1	80.00	Oct.2009
350	Endesa S.A.	Spain	OPGW-48B1-65[40.1; 36.8]	/	48B1	3.23	Oct.2009
351	National grid coporation	Korea	OPGW-12B1/80[52.3,49.5]	/	12B1	2.00	Oct.2009
352	Actew AGL	Australia	OPGW - 24B1-201 [79.5;359.1]	132	24B1	35.00	Oct.2009
353	NATIONAL ELECTRICITY CORPORATION (NEC) by TBEA	Sudan	OPGW - 2S 1/24B1 (0/98 -65.6 )	220	24B1	12.26	Oct.2009
354	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 2.6/3.0 24G652D SSLT 2.6/3.0 12G652D	154	24G652D/ 12G652D	20.112	Nov.2009
355	PT Perushan Listic Nagara	Indonesia	OPGW-2S1/24B1 (59/30 - 57.9) OPGW - 2S1/12B1 (63/28-77.1)	150	24B1/12B1	154.00	Nov.2009
356	PT Perushan Listic Nagara	Indonesia	OPGW - 2S 1/12B1 (63/28 -77.1 )	150	12B1	72.00	Nov.2009
357	Muong Kin HPP	Vietnam	OPGW - 1C 1/12B1 (0/54 -20.3 )	110	12B1	43.254	Nov.2009
358	samsung	Korea	2.6MM DIAMETER, 12B1, ZTTG652B	/	12B1	400.40	Nov.2009
359	Minera Esperanza	Chile	OPGW-1C1/(24B1+12B4)(0/65;28.5)	220	24B1+12B4	21.00	Nov.2009
360	NEPAL ELECTRICITY AUTHORITY (NEA)	Nepal	OPGW-1C-1/24B1(0/70;22.8)	132	24B1	168.00	Nov.2009

## OPGW Reference List Worldwide (con't)

NO.	Customer	Nation	Product Type	Voltage (KV)	fibre	length (km)	Date
361	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 2.6/3.0 24G652D SSLT 2.6/3.0 12G652D	154	24G652D/ 12G652D	41.595	Nov.2009
362	Kenya Power and Lighting Co.Ltd (KPLC) contractor :China CAMC Engineering Co., Ltd.	Kenya	OPGW-2S 1/16B1(0/88-68.4)	132	16B1	0.50	Nov.2009
363	ESKOM	South Africa	OPGW - 2S 1/24B1 (77/43 -147.0 )	132	24B1	15.10	Nov.2009
364	NAMPOWER	Namibia	OPGW - 2S 1/24B1 (88/38 -155.3 )	/	24B1	84.50	Nov.2009
365	Cebu Energy Development Corporation	Philippines	OPGW - 24B1-84 [69.2;50.1]	138	24B1	6.00	Nov.2009
366	Sterlite	Indian	SSLT 4.1/3.7 24B1	/	24B1	31.00	Dec.2009
367	PT Perusahaan Gas Negara	Indonesia	SSLT 5.05	/	24B1	2.10	Dec.2009
368	TEIAS	Turkey	SSLT 3.0/2.6 24G655	/	24B4	1.10	Dec.2009
369	WEL Networks	Australia	OPGW - 2S 2/96B1 (92/44 -152.5 )	33	96B1	20.00	Dec.2009
370	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S 1/10B1 (85/42 -131.8 ) OPGW-2S 1/24B1 (85/42 -131.8 )		10B1/24B1	12.30	Dec.2009
371	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT3.0/12B1 SSLT3.0/24B1 SSLT3.0/24B4	/	12B1/24B1/2 4B4	29.16	Dec.2009

372	PROPERTY OF THE ELECTRICITY COMPANY OF GHANA	Ghana	OPGW -24B1-88 [71.4;49.2]		24B1	53.00	Dec.2009
373	Sterlite	India	SST 4.35/3.95-24G 652D		24B1	35.00	Jan.2010
374	PT Perushan Listric Nagara	Indonesia	OPGW - 2S 1/12B1 (0/131 -102.9 )	500	12B1	3.30	Jan.2010
375	Teloptic d.o.o. Sarajero	Bosnia-Herzegovina	OPGW - 1C 1/24B1 (0/34 -6.4 )	150	24B1	28.60	Jan.2010
376	PSE Operator S.A.	Poland	OPGW - 1C 1/24B1 (0/58 -39.4 ) OPGW - 1C 1/24B1 (0/45 -16.3 )	110	24B1	41.42	Jan.2010
377	Poland Power Grid	Poland	OPGW - 1C 1/24B1 (0/51 -25.0)	110	24B1	1.92	Jan.2010
378	TEIAS	Turkey	SSLT 2.6/3.0 12G652D SSLT 2.6/3.0 24G655		12B1/ 24B4	36.05	Jan.2010
379	Poland Power Grid	Poland	OPGW-1C 1/36B1 (0/66-56.2)	110	36B1	20.19	Jan.2010
380	NEC	Sudan	OPGW - 2S 1/24B1 (0/89 -47.6 )	220	24B1	390.00	Jan.2010
381	EEPCO	Ethiopia	OPGW - 2S 1/24B1 (0/89 -53.3)	230	24B1	3.12	Jan.2010
382	ESKOM	South Africa	OPGW - 2S 1/24B1 (121/56 -313.0 )	132	24B1	8.50	Jan.2010
383	PSE Operator S.A.	Poland	OPGW-1C 1/12B1 (0/58-26.2)	110	12B1	1.62	Feb.2010
384	TEIAS	Turkey	SSLT 2.6/3.0 24G652D SSLT 2.6/3.0 12G652D		12B1/ 24B4	126.12	Feb.2010
385	PT Perushan Listric Nagara	Indonesia	OPGW 2S1/12B1 (0/89-75.3)	150	12B1	13.51	Feb.2010
386	PT Perushan Listric Nagara	Indonesia	OPGW 2S1/(8B1+4B4) (63/28-77.1)	150	8B1/4B4	4.06	Feb.2010
387	Song La Power Company, PC1	Vietnam	OPGW - 12B1-84 [82.9;44.3]	110	12B1	69.25	Feb.2010
388	ENDESA	Spain	OPGW-48B1-101[60.2;87.4]		48B1	5.80	Feb.2010
389	PT.AREVA.T&D	Vietnam	OPGW - 12B1-90 [73.5;59.5]	500	12B1	2.86	Feb.2010
390	CEYLON ELECTRICITY BOARD	Sri Lanka	OPGW - 1C 1/24B1 (0/72 -41.5 )		24B1	8.90	Feb.2010
391	National Grid Corporation of the Phillipine	Philippines	OPGW-24B1-100	230	24B1	19.46	Feb.2010
392	Ethiopian Electric Power Corporation(EEPCO)	Ethiopia	OPGW -2S 2/48B1(0/84-49.9)		48B1	9.00	Feb.2010
393	NGCP	Philippines	OPGW-24B1-100		24B1	1.00	Feb.2010
394	TEIAS	Turkey	SSLT 2.6/3.0 12G652D		12B1	139.59	Mar.2010
395	Empower	Esthonia	OPGW-2S2/48B1(54/23-54.6)	110	48B1	72.31	Mar.2010
396	NDPHC	Nigeria	OPGW - 24B1-101[99.1;52.5]	330	24B1	71.76	Mar.2010
397	Sterlite	India	SST 4MM DIAMETER,24B1		24B1	15.00	Mar.2010
398	Minera Esperanza	Chile	OPGW-2S 1/24B1(54/28;50.0) OPGW-2S 2/60B1(56/30;54.6)	220	24B1	18.69	Mar.2010
399	Codelco	Chile	OPGW-2C 1/24B4(62/47;89.1)	220	24B4	4.00	Mar.2010
400	Enersis	Chile	OPGW-2S 1/18B1(91/46;172.6)	220	18B1	10.34	Mar.2010
401	Samsung	Korea	2.6MM DIAMETER,24B1, ZTTG652D		24B1	2.20	Mar.2010
402	TEIAS	Turkey	SSLT 2.6/3.0 12G652D SSLT 2.6/3.0 24G652D SSLT 2.6/3.0 12 50/125mm		12B1/24B1/ 12A1a	14.98	Mar.2010
403	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/24B1D(85/42-131.8)		24B1	98.20	Mar.2010
404	PT Perushan Listric Nagara	Indonesia	OPGW - 2S 1/(8B1+4B4) (63/28 -77.1)	150	8B1/4B4	20.00	Mar.2010
405	KEC	Mozambique	OPGW-24B1-73 [80,33]	110	24B1	89.71	Mar.2010

406	Transgrid	Australia	OPGW - 48B1-82 [83.0;40.3]	132kv/66kv	48B1	61.00	Mar.2010
407	ASIAPHIL MANUFACTURING IND.,INC	Philippines	OPGW-12B1-99[96.2;60.5]		12B1	3.00	Mar.2010
408	ESKOM	South Africa	OPGW-2S1/24B1(78/35-120.9)	132	24B1	6.00	Mar.2010
409	Poland Power Grid	Poland	OPGW - 2S 2/48B1 (59/25 -59.4 )		48B1	14.87	Apr.2010
410	Northern Viet nam Power Projects Management Board	Vietnam	OPGW - 24B1-109 [65.7;95.5]	220	24B1	8.35	Apr.2010
411	EGAT	Thailand	OPGW-36B1-59 [50.9;28.2]		36B1	82.22	Apr.2010
412	CELMEC, S.A.	Panama	OPGW - 24B4-80 [71.0;38.6]		24B4	11.70	Apr.2010
413	TEIAS	Turkey	SSLT 2.6/3.0 12G652D		12B1	69.82	Apr.2010
414	PT Perushan Listic Nagara	Indonesia	OPGW 2S1/24B1 (59/30-57.9) OPGW - 8B1+4B4-73 ( 79.1;33.0)	150	24B1/8B1/ 4B4	510.72	Apr.2010
415	Poland Power Grid	poland	OPGW-1C1/24B1(0/68-42.1)		24B1	2.44	Apr.2010
416	ESKOM	South Africa	OPGW - 2S 1/24B1 (121/56 -313.0 )		24B1	9.60	Apr.2010
417	ESKOM	South Africa	OPGW - 2S 1/48B1 (125/55 -316.1 )		48B1	0.50	Apr.2010
418	ENDESA	Spain	OPGW-48B1-101[60.2;87.4]		48B1	6.50	May.2010
419	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 3.0 24G655		24B4	264.84	May.2010
420	MANNIKS.COM	Estonia	OPGW-1C 1/48B1 (0/65-30,9)	110	48B1	45.14	May.2010
421	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 3.0 12G652D		12B1	21.60	May.2010
422	RED ELECTRICA DE ESPA	Spain	OPGW-48B1-115 [93.7;86.8]	400/220KV	48B1	20.20	May.2010
423	PSE Operator S.A.	Poland	OPGW-1C 1/(40B1+8B4)(0/72-47.1)	110KV	40B1+8B4	89.62	May.2010
424	Power Consulting Pty Ltd	Australia	OPGW-2C1/48B1(122/61;304.5)	220kv	48B1	45.00	May.2010
425	PC 1(Power company 1)	Vietnam	OPGW - 12B1-90[93.4;50.3]	220kv	12B1	8.55	May.2010
426	PT Perushan Listic Nagara	Indonesia	OPGW 2S1/(8B1+4B4) (63/28-77.1)	150kv	8B1+4B4	35.90	May.2010
427	PC 1(Power company 1)	Vietnam	OPGW - 1C1/12B1[0/65 - 25.0]	110KV	12B1	3.65	May.2010
428	ENDESA	Spain	OPGW-48B1-101[60.2;87.4]		48B1	5.80	May.2010
429	Bell Net Technology S.A.C	Peru	OPGW-2S 2/12B1(42/48;71.1)	66KV	12B1	3.50	May.2010
430	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 3.0 12G652D		12B1	35.763	May.2010
			SSLT 3.0 24G652D		24B1	35.763	
431	PSE Operator S.A.	Poland	OPGW - 1C 1/48B1 (0/79 -49.0 )		48B1	56.98	May.2010
			OPGW - 2S 2/48B1 (66/42 -87.4 )		48B1	6.29	
			OPGW - 2S 2/48B1 (96/30 -136.9 )		48B1	5.96	
432	SUPREME	Nigeria	OPGW - 2C 1/24B1 (80/38 -119.1 )	132KV	24B1	31.76	June.2010
433	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 2.6/3.0 12G652D		12B1	56.27	June.2010
434	ELECTRICITY COMPANY OF GHANA	Ghana	OPGW-24B1-91[71.8;55.6]		24B1	44.00	June.2010
435	Energis	Chile	OPGW-2C 1/24B4(62/47;89.1)		24B4	1.30	June.2010
436	TECHNICAL SERVICE DEVELOPMENT CO., LTD (TSD)	Vietnam	OPGW 12B1-61 [62,7; 25,2]	110KV	12B1	2.26	June.2010
437	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	SSLT 3.0 24G652D		24B1	10.22	June.2010
438	PT Perushan Listic Nagara	Indonesia	OPGW 2S1/24B1 (59/30-57.9)	150kv	24B1	94.49	June.2010
439	RURAL ELECTRIFICATION BOARD	Uganda	OPGW - 2S 1/48B1 (109/56 - 223.0)		48B1	55.00	June.2010
440	ESKOM	South Africa	OPGW-2S 1/24B1(96/35-169.1)		24B1	25.00	June.2010
441	ESKOM	South Africa	OPGW-2S 1/24B1 (85/42 -169.0 )		24B1	22.08	June.2010

442	ITEC	ISRAEL	OPGW - 32B4-69 [65.3;30.1]		32B4	30.00	July.2010
443	PSE Operator S.A.	Poland	OPGW - 2S 2/48B1 (0/95 -100.6 )		48B1	1.67	July.2010
			OPGW - 1C 1/48B1 (0/61 -41.5 )		48B1	19.98	July.2010
444	PSE Operator S.A.	Poland	OPGW - 1C 1/48B1 (0/61 -41.5 )		48B1	2.75	July.2010
445	PSE Operator S.A.	Poland	OPGW - 1C 1/48B1 (0/79 -49.0 )		48B1	5.95	July.2010
446	GSE	Georgia	OPGW - 2C 1/24B1 (74/50 -117.8 )		24B1	38.81	July.2010
447	PSE Operator S.A.	Poland	OPGW - 2S 1/24B1 (52/29 -60.3)		24B1	8.95	July.2010
448	TEIAS (Turkish Power Transmisson Co. Inc.)	Turkey	OPGW-2S1/12B1(85/42-131.8)	154KV	12B1	70.30	July.2010
449	NGANGIANG	Vietnam	OPGW - 24B1-77 [77.6;36.2]	110KV	24B1	1.33	July.2010
450	Powerkont	Germany	OPGW-1C 1/48B1 (0/61 -27.7 )		48B1	26.80	July.2010
451	PT Perushan Listric Nagara	Indonesia	OPGW 2S1/24B1 (59/30-57.9)	150KV	24B1	7.90	July.2010
452	PC 3(Power company 3)	Vietnam	OPGW - 12B1-82 [73.4;51.6]	220KV	12B1	21.46	July.2010
453	Bhutan Power Corporation Ltd.	Bhutan	OPGW - 24B1/80 [62.3; 48.0]	220kV	24B1	92.75	July.2010
454	PSE Operator S.A.	Poland	OPGW-1C 1/(40B1+8B4)(0/72-60.8)		40B1+8B4	9.72	July.2010
			OPGW-1C 1/(40B1+8B4)(0/72-55.3)		40B1+8B4	1.43	July.2010
			OPGW-2S 2/(40B1+8B4)(64/41-89.9)		40B1+8B4	5.13	July.2010
455	PSE Operator S.A.	Poland	OPGW - 2S 1/48B1 (74/51 -112.1 )		48B1	3.91	July.2010
			OPGW - 2S 2/48B1 (49/35 -50.6 )		48B1	62.64	July.2010
456	TENAGA NASIONAL BERHAD	Malaysia	SUS 3.5mm-36B1		36B1	19.20	July.2010
457	Mongolia Electric Power	Mongolia	OPGW - 24B1-69 [70.2;29.1]		24B1	6.00	July.2010
458	Powertel	Zimbabwe	OPGW - 24B1-80 [58.4;56.2]		24B1	270.35	July.2010
459	Eskom	South Africa	OPGW - 3S 1/24B1 (257/52 -905.6 )		24B1	2.43	July.2010
			OPGW - 2S 1/24B1 (138/59 -349.9 )		24B1	21.71	July.2010
460	ENDESA	Spain	OPGW-48B1-119 [98.7;105.0]		48B1	62.92	July.2010
461	ECG	Ghana	OPGW-24B1-91 [71.8;55.6]	33KV	24B1	13.00	July.2010



## OPGW Reference List in China

<b>ZTT OPGW REFERENCE LIST (CHINA) (More than 50km)</b>							
NO.	Customer	Province	Product Type	Voltage (KV)	fibre	length (km)	Date
1	Xi'an High Voltage Power Supply Bureau	shanxi	OPGW-1C1/24B1(0/65-20.9)	110	24	1.700	May-00
2	Xinjiang Power Grid Construction Co., Ltd.	xijiang	OPGW-2S1/24B1(79/30-84.5)	220	24	305.140	Aug-00
3	Yulin, Shaanxi Province Power Company	shanxi	OPGW-1C1/24B1(0/100-28.3)	110	24	22.400	Nov-00
4	Electric Power Group Corporation, Shandong Province,	shandong	OPGW-2S1/24B1(79/30-84.5)	220	24	1.640	Nov-00
5	Electric Power Group Corporation, Shandong Province,	guangdong	OPGW-2S1/12B1(89/35-90.5)	110	12/18	19.000	Dec-00
6	Dalian, Liaoning Province Power Corporation	Liaoning	OPGW-1C1/(12B4+24B1)(0/65-30.9)	220	12B4+24B1	54.152	Feb-01
7	Guangzhou, Guangdong Electric Power Industry Bureau	Guangzhou	OPGW-1C1/24B1(0/48-19.4)	220	24B1	55.630	Sep-01
8	Shandong Electric Power Group Corporation	Shandong	OPGW-1C1/24B1(0/68-51.1) OPGW-2S1/26B1(78/35-100.0)	220	24B1/26B1	60.700	Sep-01
9	Ningxia Electric Power Company	Ningxia	OPGW-2S1/24B1(0/159-200.7) OPGW-1S1/48B1(0/148-195.3)	220	24B4/48B1	66.130	Nov-01
10	Zhejiang Provincial Power Company	Zhejiang	OPGW-2S1/48B1(0/178-201.0)	220	48B1	67.000	Dec-01
11	Hubei Province Electric Power Company	Hubei	OPGW-2S1/24B1(0/128-76.9)	500	24B1	67.802	Dec-01
12	Yunnan Electric Power Group Corporation	Yunnan	OPGW-1C1/12B1 (0/148-195.3)	500	12B1	77.821	Nov-01
13	Guangdong Electric Power Communication Center	Guangdong	OPGW-2S1/ (16B4+24B4)	220	16B4+24B1	105.000	Jan-01
14	Tangshan, Hebei Province Power Company	Hebei	OPGW-2S1/24B1(0/163-211.4)	220	24B1	110.514	Sep-01
15	Xinjiang Electric Power Company	Xinjiang	OPGW-2S1/24B1(0/86-73.5)	220	24B1	122.285	Sep-01
16	Guiyang in Guizhou Province Wang Xinhua Industrial Development Corporation	Guizhou	OPGW-2S1/24B1(0/129-189)	220	24B1	127.500	Mar-01
17	Yancheng in Jiangsu Province Power Supply Bureau	Jiangsu	OPGW-2S1/24B1(0/107-72.7)	220	24B1	127.992	Jul-01
18	Shandong Electric Power Group Corporation	Shandong	OPGW-2S1/48B1(0/158-120.9)	500	48B1	133.500	Dec-01
19	Guangdong Radio and Television Group Co., Ltd.	Guangdong	OPGW-2S1/24B1(0/119-149)	500	24B1	166.192	Apr-01
20	Inner Mongolia Electric Power (Group) Co., Ltd.	Inner Mongolia	OPGW-2S1/36B1(0/106-115.0)	500	36B4	173.940	Feb-02
21	Shandong Electric Power Group Corporation	Shandong	OPGW-2S1/24B1(59/30-62.9)	220	24B1	191.940	Dec-02
22	North China Electric Power Group Corporation	Hubei	OPGW-2S1/16B4(0/148-195.3)	220	16B4	273.000	May-02
23	Xinjiang Power Net Construction Co., Ltd.	Guangxi	OPGW-1C1/24B1(0/58-15.9)	220	24B1	305.140	Aug-02
24	Guangxi Electric Power Development Co., Ltd.	Guangxi	OPGW-2S1/24B1(79/30-84.5)	220	24B1	50.110	Apr-02
25	Guangxi Electric Power Development Co., Ltd.	Guangxi	OPGW-2S1/16B1(0/101-68.1)	220	16B4	51.230	Jun-02
26	Jiangxi Transmission and Distribution Construction Co. construction of thermal power division	Jiangsu	OPGW-2S1/24B1(0/118-119.8)	220	24B1	55.280	Jan-02
27	Guangdong Power net Communication Engineering department	Guangdong	OPGW-2S1/(8B1+4B4)(0/108-119.8)	220	8B1+4B4	57.060	Nov-02
28	Jiangsu Power Material Co.,Ltd	Jiangsu	OPGW-2S1/36B1(0/123-108.0)	500	36B1	59.223	Dec-02
29	Yunnan's power Material company	Yunnan	OPGW-2S1/24B1(0/154-159.3)	500	24B1	65.780	Jan-02
30	Guangdong Power net Communication Engineering department	Guangdong	OPGW-2S2/48B1(0/115-86.0)	500	48B1	77.380	Oct-02

31	Guizhou Power Company	Guizhou	OPGW-2S1/24B1(0/65-40.0)	220	24B1	105.330	Mar-02
32	Jiangxi Electric Power Design Institute	Jiangxi	OPGW-2S1/24B1(0/99-76.4)	220	24B1	130.000	Jul-02
33	Guangdong Power net Communication Engineering department	Guangdong	OPGW-2S1/(24B1+12B4) (0/112-110.5)	220	12B4+24B1	153.411	Oct-02
34	Guangxi Electric Power Development Co., Ltd.	Guangxi	OPGW-2S1/24B1(0/154-202.0)	220	24B1	183.950	Sep-02
35	Shanxi Electric Power Company	Shanxi	OPGW-2S1/(24B1+16B4)(0/126-126)	220	16B4+24B1	202.030	Oct-02
36	State Power Telecommunications Center	Hunan	OPGW-2S1/36B1(0/116-120.1)	220	36B1	245.000	Aug-02
37	Hubei Power of Information and Communication Center	Hubei	OPGW-1C1/18B1(0/56-17.5) OPGW- 2S1/24B1(0/134-149.3) OPGW- 2S1/30B1(0/123-92.0)	220	18B1/24B1 /30B1	245.510	Apr-02
38	Tianjin Electric Power Corporation Dispatch and Communication Center	Tianjin	OPGW-2S1/24B1(0/138-161.8)	220	24B1	50.639	Oct-03
39	State Power Grid Corporation building branch	State Power net	OPGW-2S1/18B1(0/91-51.6) OPGW- 2S1/36B1(0/123-157.2)	500	18B1/36B1	51.462	May-03
40	Guangdong Power net Communication Engineering department	Guangdong	OPGW-2S1/24B1(0/123-150.5)	220	24B1	55.260	Nov-03
41	Henan Electric Power Dispatching and Communication Center	Henan	OPGW-2S1/16B1(0/131-155.2)	220	16B1	56.444	Jul-03
42	Shandong Luneng Group Co., Ltd. Material Linyi Branch	Shandong	OPGW-2S2/36B1(0/125-114.1)	220	36B1	57.366	Apr-03
43	Guangdong Power net Communication Engineering department	Guangdong	OPGW-24B1-158[107.5; 199.8]	220	24B1	58.430	Aug-03
44	Shanghai Electric Power Company	Shanghai	OPGW-2S1/24B1(60/25-70.0)	220	24B1	69.710	Apr-03
45	Chongqing Electric Power Co., Ltd. Material Square	Chongqing	OPGW-2S1/24B1(49/40-83.1)	220	24B1	70.195	Sep-03
46	Shandong Luneng Material Group Co., Ltd.	Shandong	OPGW-1C1/16B4(0/55-25.7)	220	16B4	70.985	Dec-03
47	Jiangsu Sheyang Suyuan Industrial Company Material branch	Jiangsu	OPGW-36B1-133	220	36B1	76.597	Nov-03
48	Beijing Dentsu Communication Equipment Co., Ltd.	State grid	OPGW-2S2/48B1(0/173-199.5)	500	48B1	93.648	Dec-03
49	Xinjiang Xinneng material Group Co., Ltd.	Xinjiang	OPGW-2S1/24B1(0/113-69.2)	220	24B1	96.988	Feb-03
50	Northwest Power Group international trade Co., Ltd.	Northwest	OPGW-2S1/24B1(0/108-78.5)	330	24B1	100.000	Aug-03
51	Zhejiang Branch of building ultra-high pressure power companies	Zhejiang	OPGW-1C1/16B1(0/58-28.7) OPGW- 2S1/24B1(0/95-75.0)	500	16B1/24B1	111.820	Aug-03
52	Jiangxi Gannan Electric Power Industry Corporation, Dentsu and technology branch	Jiangxi	OPGW-1C1/12B4(0/68-33.7) OPGW- 2S1/24B1(0/88-79.0)	220	12B4+24B1	120.000	Jul-03
53	Zhejiang Branch of building ultra-high pressure power companies	Zhejiang	OPGW-2S1/48B1(0/113-90.2) OPGW-2S2/72B1(0/125-101.7)	500	48B1/72B4	124.000	Aug-03
54	Ningxia Electric Power Industry Bureau materials company	Ningxia	OPGW-2S1/36B1(0/112-97.0)	220	36B1	130.000	Aug-03

55	Anhui Transmission and Distribution Engineering company	Anhui	OPGW-2S1/24B1(0/135-140.4)	220	24B1	132.000	Nov-03
56	Jiangxi Gannan Electric Power Industry Corporation, Dentsu and technology branch	Jiangxi	OPGW-2S1/16B1(43/35-66.9)	220	16B4	144.016	Jul-03
57	Beijing Dentsu Communication Equipment Co., Ltd.	State grid	OPGW-2S1/30B1(0/99-55.9)	500	30B1	145.618	Aug-03
58	Sichuan Huaneng Fujiang River Hydropower Co., Ltd.	SICHUAN	OPGW-1C1/12B4(0/57-38.7) OPGW-2S1/16B1(0/85-46.2)	220	12B1/16B1	154.149	Jan-03
59	Guangdong Electric Power Group Co., Ltd.	Guangdong	OPGW-1C1/12B4(0/60-32.7) OPGW-2S2/36B1(0/115-75.7)	220	12B1/36B1	155.452	Mar-03
60	Inner Mongolia EHV Power Corporation	Inner Mongolia	OPGW-2S1/24B1(0/125-101.7)	500	24B1	177.110	Sep-03
61	State grid Corporation building branch	State grid	OPGW-2S1/12B1(0/133-162.1)	500	12B1	178.988	Oct-03
62	Gansu Province, Transmission and Distribution Engineering	Gansu	OPGW-2S1/24B1(0/138-179.6)	330	24B1	219.370	Sep-03
63	Zhejiang Province Electric Material Power Company	Zhejiang	OPGW-1C1/24B1(0/65-30.9) OPGW-2S1/32B1(0/115-95.4) OPGW-2S1/48B1(0/144-159.3) OPGW-2S2/56B1(0/120-104.1)	220	24B1/32B1 /48B1/56B1	303.740	Apr-03
64	Guangxi Electric Power Development Co., Ltd.	Guangxi	OPGW-2S1/24B1(0/103-79.0) OPGW-2S1/32B1 (0/109-98.4)	220	24B1/32B1	399.540	Nov-03
65	Hai'nan power material company	Hainan	OPGW-1C1/24B1(0/61-26)	220		72.549	Jul-04
66	Shanghai transmission and transformation Engineering Corporation	Shanghai	OPGW-2S1/24B1(59/30-64.5)	220	24B1	59.455	Jul-04
67	Guangxi tairui trade Co.,Ltd	Guangxi	OPGW-2S1/24B1(0/89-46.4)	220	24B1	113.142	Jul-04
68	Northwest power grid Co.,ltd	Gansu	OPGW-1C1/24B1(0/51-22.0)	330	24B1	73.764	Aug-04
69	Shan'xi kaixin power supplies trade Co.,ltd	Shanxi	OPGW-1C1/24B1(0/51-16.9)	330	24B1	99.516	Aug-04
70	Zhejiang nengda trade Co.,ltd	Zhejiang	OPGW-2S1/24B1(78/35-100.0)	220	24B1	188	Aug-04
71	Jiangxi dianneng science development Co.,ltd	Jiangxi	OPGW-2S1/24B1(0/148-171.8)	500	24B1	86.985	Aug-04
72	Suqian power supply company	Jiangsu	OPGW-1C1/48B1(0/65-30.9)	220	48B1	58.67	Sep-04
73	Huai'an power supply Bureau	Jiangsu	OPGW-2S1/24B1(0/89-46.4)	220	24B1	60.63	Sep-04
74	North China power Grid Co.,ltd	Shanxi	OPGW-2S1/24B1(0/128-129.8)	500	24B1	251.72	Sep-04
75	Guangdong nandian material Co.,ltd	Guangxi	OPGW-2S1/12B1(54/24-57.2)	500	12B1	148.913	Oct-04
76	Guangdong power grid communication Engineering Corporation	Guangdong	OPGW-2S1/24B1(59/30-64.5)	220	24B1	165.04	Oct-04
77	Guangdong power grid communication Engineering Corporation	Guangdong	OPGW-1C1/48B1(0/65-30.9)	220	48B1	266.867	Oct-04
78	Shanghai east China power supplies combined Co.,ltd	Anhui	OPGW-2S1 (18B1+6B4) (0/119-101.4)	500	18B1+6B4	72.999	Nov-04

79	Shandong luneng Group shanghai material trade company	Shandong	OPGW-2S1/24B1(0/148-171.8)	500	24B1	70.113	Nov-04
80	Guangdong power grid communication Engineering Corporation	Guangdong	OPGW-1C1/16B1(0/48-19.4)	110	16B1	109.83	Nov-04
81	Hejiang dayou industry share Co.,Ltd	Zhejiang	OPGW-2S1/24B1(0/89-46.4)	220	24B1	60.222	Dec-04
82	Shan'xi electrical power company	Shanxi	OPGW-1C1/24B1(0/51-22.0)	330	24B1	104.49	Dec-04
83	Guangdong power grid communication Engineering Corporation	Guangdong	OPGW-1C1/24B1(0/61-26)	220	24B1	118.53	Dec-04
84	Chongqing power supplies Co.,Ltd	Chongqing	OPGW-2S1/24B1(59/29-69.8)	220	24B1	152.38	Dec-04
85	Power Transmission & Transformation Co.SEPC	Shangxi	OPGW-24B1(0/93-62.9)	500	24B1	280	Mar-05
86	Shangdong Electric Power Corporation	Shangdong	OPGW-2S2/(24B1+12B4)(93/41-170.6) OPGW-2S2/(24B1+12B4)(80/36-127.0)	500	24B1+12B4	220	Jun-05
87	Dongbei electric power management bureau power transmission and transformation engineering company	JILING	OPGW-2S1/24B1(0/144-159.3)	500	24B1	120.423	Jul-05
88	Dongbei electric power Shandong power transmission and transformation engineering company	JINING	OPGW-2S1/24B1(0/144-159.3)	500	24B1	59.778	Jul-05
89	Dongbei electric power Jiling power transmission and transformation engineering company	LIAONING	OPGW-2S1/24B1(0/144-159.3)	500	24B1	149.868	Jul-05
90	Sichuan electric power company	SICHUAN	OPGW-2S1/16B1(0/113-82.0)	500	16B1	86.302	Jul-05
91	Shanxi electric power company	SHANXI	OPGW-2S1/36B1(0/152-177.8)	330	36B1	112.26	Aug-05
92	Hebei power transmission and transformation engineering company	HEBEI	OPGW-2S1/16B1(83/37-112.6)	220	16B1	67.245	Aug-05
93	Huadong power network Jiangsu electric power company	JIANGSU	OPGW-2S1/36B1(0/115-95.4)	500	36B1	125.41	Aug-05
94	Hebei electric power company high-voltage power transmission and transformation branch	HEBEI	OPGW-1C1/24B1(0/68-51.1)	500	24B1	157.66	Aug-05
95	Ningxia electric power company Ningdong power supply bureau	NINGXIA	OPGW-1C1/12B1(0/58-20.0)	110	12B1	153.76	Sep-05
96	Huai'an electric power supply company	JIANGSU	OPGW-2S1/24B1(0/89-46.4)	220	24B1	97.584	Sep-05
97	Huadong power network co.,Ltd.	JIANGSU	OPGW-2S1/36B1(0/120-124.7)	500	36B1	177.818	Sep-05
98	State power grid construction and function department	JIANGSU	OPGW-2S1/24B1(0/148-199.6)	500	24B1	133.464	Oct-05
99	State power grid construction and function department	SHANGDONG	OPGW-2S1/24B1(0/148-199.6)	500	24B1	145.302	Oct-05

100	State power grid construction and function department	SHANXI	OPGW-2S1/24B1(0/110-76.0)	500	24B1	506.106	Oct-05
101	Tongliao electric power industry bureau	LIAONING	OPGW-2S1/24B1(78/35-100.0)	220	24B1	69.595	Oct-05
102	Guangxi power transmission and transformation engineering company	GUANGXI	OPGW-2S1/16B1(80/35-112.6)	220	16B1	95.26	Oct-05
103	Hebei electric power company	HEBEI	OPGW-2S1/24B1(59/29-69.8)	220	24B1	57.47	Oct-05
104	State power grid communication center	HUBEI	OPGW-2S1/24B1(0/110-76.0)	500	24B1	285.92	Nov-05
105	Shanxi electric power company	SHANXI	OPGW-1C1/24B1(0/51-16.9)	330	24B1	196.9	Nov-05
106	Guangdong power network communication engineering department	GUANGDONG	OPGW-2S1/24B1(0/143-162.1)	220	24B1	161.965	Nov-05
107	State power grid company power network construction branch	JIANGXI	OPGW-2S1/24B1(54/24-57.2)	500	24B1	116.919	Dec-05
108	Sichuan electric power material company	SICHUAN	OPGW-2S1/24B1(0/144-159.3)	500	24B1	118.15	Dec-05
109	Sichuan Panzhihua electric power industry bureau	SICHUAN	OPGW-2S1/24B1(0/144-159.3)	500	24B1	136.095	Dec-05
110	Guangdong power network company communication engineering department	GUANGDONG	OPGW-2S2/48B1(0/93-62.9)	220	48B1	72.45	Dec-05
111	Gansu electric power company	GANSU	OPGW-2S1/24B1(45/62-70.0)	330	24B1	106.94	Aug-06
112	Yunnan power network company Yuxi electric power supply company	YUNNAN	OPGW-2S1/24B1(35/72-62.0)	220	24B1	263.41	Aug-06
113	State power grid construction company	JIANGXI	OPGW-2S1/16B1(0/154-189.9)	500	16B1	122.42	Sep-06
114	China southern power grid uhv transmission company	GUANGXI	OPGW-2S2/48B1(0/155-182.5)	500	48B1	74.08	Sep-06
115	Huazhong electric power international economy and trade co.,ltd.	HUBEI	OPGW-2S1/24B1(0/128-129.8)	500	24B1	150.91	Sep-06
116	Jiangsu Hengyuan electric power material co.,ltd.	JIANGSU	OPGW-1C1/24B1(0/74-65.1)	500	24B1	470.14	Sep-06
117	Hainan power grid company	HAINAN	OPGW-2S1/24B1(0/143-162.1)	220	24B1	89.06	Sep-06
118	Gannan electric power industry company	JIANGXI	OPGW-1C1/32B1-75(70.7;38.1)	110	32B1	182.50	Oct-06
119	Sichuan electric power material company	SICHUAN	OPGW-2S1/24B1(0/139-152.1)	220	24B1	158.06	Oct-06
120	Qimei group material supply bureau	HEILONGJIANG	OPGW-1C1/12B1(0/58-20.0)	110	12B1	85.07	Oct-06
121	Guangxi power transmission and transformation engineering company	GUANGXI	OPGW-2S1/24B1(75/45-115.8)	500	24B1	156.33	Oct-06
122	E'erdusi electric power industry bureau	NEIMENGGU	OPGW-2S1/16B1(59/30-73.2)	110	16B1	87.44	Oct-06
123	Guangxi Hongda trading co.,ltd.	GUANGXI	OPGW-2S1/24B1(0/141-168.2)	500	24B1	120.47	Oct-06
124	Zhejiang Nengda trading co.,ltd.	ZHEJIANG	OPGW-2S1/32B1(0/152-172.2)	500	32B1	171.70	Nov-06
125	Zhejiang Nengda trading co.,ltd.	GUANGXI	OPGW-2S1/24B1(78/35-100.0)	220	24B1	71.89	Nov-06
126	Guangxi power transmission and transformation engineering company	GUANGXI	OPGW-2S1/24B1(65/55-119.8)	500	24B1	64.19	Nov-07
127	Guizhou power grid company	GUIZHOU	OPGW-2S1/24B1(0/100-63.9)	500	24B1	81.67	Nov-06
128	Hebei electric power company UHV transformation branch	HEBEI	OPGW-2S1/24B1(0/120-75.9)	500	24B1	197.88	Nov-06

129	Xizang electric power company power network construction headquarters	XIZANG	OPGW-2S1/12B1(59/30-73.2)	110	12B1	93.97	Dec-06
130	China electric power engineering consultant group power design institute	SICHUAN	OPGW-2S1/16B1(78/35-95.5)	220	16B1	147.35	Dec-06
131	Shaoxing electric power material co.,ltd.	ZHEJIANG	OPGW-2S1/32B1(0/113-100.3)	220	32B1	251.70	Dec-06
132	Anhui Hongyuan electric power material co.,ltd.	ANHUI	OPGW-2S1/24B1(0/143-162.1)	220	24B1	154.83	Dec-06
133	Huazhong Power Interational Co.,Ltd	Hubei	OPGW-2S1(16B1+8B4) (0/120-124.7)	500	16B1+8B4	180.409	Jun-07
134	Jiangsu Power Material Co.,Ltd	Jiangsu	OPGW-2S1/20B1(0/136-156.3)	220	20B1	378.728	Jun-07
135	Jiangsu Power Material Co.,Ltd	Jiangsu	OPGW-2S1/20B1(0/136-156.3)	220	20B1	248.500	Jun-07
136	Mudanjiang Bureau	Heilongjiang	OPGW-1C1/24B1 (0/42-24.7)	110	24B1	129.300	Jun-07
137	Shanxi Songbiandian project company	Shanxi	OPGW-2S1/24B1(0/148-199.6)	500	24B1	113.580	Jun-07
138	Jiangsu Tengchang Hengtong Guangdian Co.,Ltd	Jiangsu	OPGW-20B1-135	500	20B1	265.616	Jun-07
139	Shangdong luneng Material Co.,Ltd	Shandong	OPGW-2S1/24B1(97/48-186.1)	220	24B1	63.867	Jun-07
140	Shangdong luneng Material Co.,Ltd	Shandong	OPGW-2S1/24B1(69/35-92.0)	220	24B1	55.237	Jun-07
141	Tangshan Power Supply Co.,Ltd	Hebei	OPGW-2S1/24B1(0/136-157.8)	220	24B1	64.032	Jun-07
142	Zunyi Power Bureau	Guizhou	OPGW-2S1(16B1+8B4) (0/128-142.7)	500	16B1+8B4	153.731	Jul-07
143	Neimenggu Power Co.,Lte	Neimenggu	OPGW-2S1/(20B1+4B4) (0/128-204.4)	500	20B1+4B4	224.781	Jul-07
144	Huadong Grid Co.,Ltd	Anhui	OPGW-2S1/36B1(0/136-143.8)	500	36B1	171.979	Jul-07
145	Hunan Chuangye Technology Group Co.,Ltd	Hunnan	OPGW-2S 1/ (16B1+8B4) (0/141-168.2)	500	16B1+8B4	126.270	Jul-07
146	Haerbing Power Bureau	Heilongjiang	OPGW-1C1/24B1 (0/37-13.0)	66	24B1	300.270	Jul-07
147	Huadong Grid Co.,Ltd	Anhui	OPGW-2S1/36B1(0/153-201.4)	500	36B1	100.349	Jul-07
148	Guiyang Power Bureau	Guizhou	OPGW-2S1/24B1(0/96-63.5)	220	24B1	63.031	Jul-07
149	Anhui Power Material Co.,Ltd	Anhui	OPGW-2S1/36B1(0/159-200.7)	500	36B1	65.902	Jul-07
150	Xibei Grid Co.,Ltd	Shanxi	OPGW-2S1/24B1(0/110-71.7)	750	24B1	84.637	Aug-07
151	Xibei Grid Co.,Ltd	Shanxi	OPGW-2S1/24B1(0/128-76.9)	750	24B1	195.77	Aug-07
152	Hunan Chuangye Technology Group Co.,Ltd	Hunnan	OPGW-2S1/ (16B1+8B4)(0/128-110.8)	500	16B1+8B4	108.554	Aug-07
153	Guangxi Hongda Trade Company	Guangxi	OPGW-2S1/16B1(0/128-105.0)	500	16B1	101.350	Aug-07
154	Baoji Power Bureau	Shanxi	OPGW-2S1/24B1(59/30-62.9)	110	24B1	52.830	Nov-07
155	Huazhong Power Interational Co.,Ltd	Hubei	OPGW-1S1/ (24B1+12B4) (0/148-195.3)	220	24B1+12B4	105.910	Dec-07
156	Jiangsu Power Material Co.,Ltd	Jiangsu	OPGW-2S1/20B1(0/136-157.8)	220	20B1	186.470	Dec-07
157	Guangxi Hongda Trade Company	Guangxi	OPGW-2S1/24B1(0/113-81.3)	220	24B1	63.735	Jan-08
158	State Grid Communication Project Co.,Ltd	Beijing	OPGW-2S1/24B1(80/30-100.0)	500	24B1	62.433	Jan-08
159	State Grid Communication Project Co.,Ltd	Beijing	OPGW-2S1/ (12B1+12B4) (0/120-129.8)	500	12B1+12B4	65.092	Jan-08
160	Anhuiwan Power Material Co.,Ltd	Anhui	OPGW-2S1/24B1(0/120-113.6)	220	24B1	73.060	Jan-08

161	Gansu Power Bureau Baiyin Branch	Gansu	OPGW-1C1/24B1(0/51-22.0)	330	24B1	79.312	Jan-08
162	Handan Powe Bureau	Hebei	OPGW-1C1/16B1(0/61-25.5)	110	16B1	58.000	Jan-08
163	Jiangsu ZTT Co.,Ltd	Jiangsu	OPGW-2S1/20B1(85/42-131.8)	110	20B1	86.000	Jan-08
164	China South Grid Company EHV Branch	Guagndong	OPGW-2S2/36B1(0/120-100.8)	500	36B1	423.310	Jan-08
165	China South Grid Company EHV Branch	Yunnan	OPGW-2S1/ (18B1+6B4) (0/131-122.6)	500	18B1+6B4	243.610	Jan-08
166	Fujian Yili Power material Co.,Ltd	Fujian	OPGW-2S1/24B1(0/148-171.8)	500	24B1	73.723	Jan-08
167	Anhuiwan power supply Co.,Ltd	Anhui	OPGW-2S1/24B1(0/98-82.5)	220	24B1	54.500	Jan-08
168	Qinghai power Construction Co.,Ltd	Qinghai	OPGW-1C1/16B1(0/48-19.4)	110	16B1	119.209	Jan-08
169	Yunnan Grid Company Construction Branch	Yunnan	OPGW-2S1/ (18B1+6B4) (0/119-101.4)	500	18B1+6B4	274.297	Jan-08
170	State Grid Company	Henan	OPGW-2S1/24B1(0/120-132.0)	220	24B1	226.050	Jan-08
171	Henan power bureau	Henan	OPGW-2S1/24B1(0/120-136.0)	220	24B1	53.840	Jan-08
172	Jiling transmit Engineer project	Jilin	OPGW-1C1/48B1(0/65-30.9)	220	48B1	74.640	Jan-08
173	Jiangxi power bureau	Jiangxi	OPGW-1C1/16B1(0/54-20.0)	110	16B1	61.893	Jan-08
174	Dongbei power bureau Engineer Co.,Ltd	Liaoning	OPGW-2S1/24B1(0/143-180.5)	500	24B1	132.956	Feb-08
175	Quzhou Power Bureau	Zhejiang	OPGW-2S2/(40B1+8B4)(0/155-186.5)	220	40B1+8B4	64.225	Feb-08
176	Zhejiang transmit Co.,Ltd	Zhejiang	OPGW-2S1/24B1(0/136-143.8)	500	24B1	76.271	Feb-08
177	Guizhou Power bureau	Guizhou	OPGW-2S1/24B1(0/89-46.4)	220	24B1	744.000	Feb-08
178	Guizhou hongdian Co.,Ltd	Guizhou	OPGW-1C1/24B1(0/42-8.8)	110	24B1	154.000	Feb-08
179	Guizhou Power bureau	Guizhou	OPGW-1C1/24B1(0/54-13.9)	110	24B1	54.000	Feb-08
180	Liaonin province Co.,Ltd	Liaoning	OPGW-2S1/24B1(59/30-64.5)	220	24B1	271.400	Feb-08
181	Hunan Power Bureau	Hunan	OPGW-2S1/24B1(0/111-71.1)	220	24B1	70.480	Feb-08
182	Hubeie material Co.,Ltd	Hubei	OPGW-2S1/24B1(0/128-129.8)	500	24B1	50.100	Feb-08
183	Jiangxi Power Bureau	Jiangxi	OPGW-2S1/(16B1+8B4)(0/128-129.8)	500	16B1+8B4	149.426	Feb-08
184	Henan Power Bureau	Henan	OPGW-2S1/24B1(0/126-128.2)	220	24B1	86.103	Feb-08
185	Anhuiwan power supply Co.,Ltd	Anhui	OPGW-1C1/16B1(0/58-20.0)	110	16B1	54.080	Feb-08
186	State Grid Communication Project Construction Co.,Ltd	Beijing	OPGW-2S1/24B1(0/176-156.0)	1000	24B1	395.932	Mar-08
187	State Grid Communication Project Construction Co.,Ltd	Beijing	OPGW-3S1/24B1(0/388-156.0) OPGW-3S1/24B1(0/254-267.9)	1000	24B1	15.966	Mar-08
188	Sichuan Powe Bureau	Sichuan	OPGW-2S1/16B1(0/143-116.3)	500	16B1	59.120	Mar-08
189	Grid communication Construction Branch	Zhejiang	OPGW-2S1/24B1(0/110-76.0)	500	24B1	193.770	Mar-08
190	Huadong State Grid Co.,Ltd	Jiangsu	OPGW-2S1/24B1(0/144-159.3)	500	24B1	68.885	Mar-08
191	Neimenggu Transmit Co.,Ltd Airport Branch Project	Neimenggu	OPGW-2S1/28B1(0/106-88)	220	28B1	69.880	Mar-08
192	Henan power construction institute	Henan	OPGW-2S1/24B1(0/110-109)	220	24B1	56.135	Mar-08
193	Yunnan State Grid Dehong power bureau	Yunnan	OPGW-1C1/(18B1+6B4)(0/58-24.6)	220	18B1+6B4	102.625	Mar-08
194	Huabei grid Co.,Ltd Qinhuangdao Branch	Hebei	OPGW-2S2/48B1(59/25-56.8)	110	48B1	53.428	Apr-08
195	Guangdong wangtong Communication Department	Guangdong	OPGW-2S2/48B1(0/93-62.9)	220	48B1	53.132	Apr-08
196	Sichuan Power Bureau	Sichuan	OPGW-24B1-103	220	24B1	86.950	Apr-08
197	Yunnan Grid Company Dali Bureau	Yunnan	OPGW-1C1/12B1(0/65-40.0)	110	12B1	56.771	Apr-08

198	Sichuan Power Company	Sichuan	OPGW-24B1-103	220	24B1	54.387	May-08
199	Henan Power Company	Henan	OPGW-2S1/24B1(0/112-110.5)	220	24B1	60.430	May-08
200	Henan Power Company	Henan	OPGW-2S1/24B1(0/154-202.0)	220	24B1	56.196	May-08
201	Henan Power Company	Henan	OPGW-2S1/24B1(0/126-126)	220	24B1	59.965	May-08
202	Jilin Electricity Company Electricity Grid Construction Branch	Jilin	OPGW-2S1/24B1(0/126-130.1)	220	24B1	60.988	May-08
203	Heilongjiang Electricity Development Company	Heilongjiang	OPGW-1C1/24B1(0/51-12.5)	220	24B1	65.185	Jun-08
204	Guangxi Hongda Trading Co., Ltd.	Guangxi	OPGW-2S1/24B1(0/100-63.9)	220	24B1	57.245	Jun-08
205	Shanxi Power Company	Shanxi	OPGW-2S1/24B1(0/88-40.2)	220	24B1	50.610	Jun-08
206	Shanxi Power Company	Shanxi	OPGW-2S2/48B1(0/105-76.7)	500	48B1	90.550	Jun-08
207	Heilongjiang Power Company Automatization Controlling Center	Heilongjiang	OPGW-1C1/24B1(0/61-25.5)	220	24B1	72.885	Jun-08
208	Hunan Power Company	Hunan	OPGW-2S1/24B1(0/101-61.6)	220	24B1	75.200	Jun-08
209	Liaoning Power Company	Liaoning	OPGW-2S1/24B1(0/143-180.5)	500	24B1	79.850	Jul-08
210	Fujian Yili Electric Materials Company	Fujian	OPGW-2S1/24B1(0/1436-170.2)	220	24B1	60.240	Jul-08
211	Guangdong Power Grid Communication Engineering Department	Guangdong	OPGW-2S2/48B1(0/120-104.1)	500	48B1	74.332	Jul-08
212	Tangshan Power Supply Company	Beijing	OPGW-24B1-168[117.5; 209.8]	220	24B1	87.873	Aug-08
213	Tangshan Power Supply Company	Beijing	OPGW-24B1-168[117.5; 209.8]	220	24B1	72.161	Aug-08
214	Shanxi Power Company	Shanxi	OPGW-2S1/24B1(59/30-73.1)	330	24B1	95.170	Aug-08
215	Shanxi Power Company	Shanxi	OPGW-1C1/24B1(0/51-22.7)	330	24B1	243.790	Aug-08
216	Sichuan Huadian Xixihe Shuidian Development Company	Sichuan	OPGW-24B1-103	220	24B1	81.589	Aug-08
217	Gansu Power Company	Gansu	OPGW-2S1/24B1(0/110-105.9)	330	24B1	167.476	Sep-08
218	Xizang Power Company Power Grid Construction Management Office	Sichuan	OPGW-1C1/24B1(0/72-17.1)	220	24B1	103.974	Sep-08
219	Guangxi Hongda Trading Co., Ltd.	Guangxi	OPGW-1C1/24B1(0/58-26.8)	220	24B1	80.198	Sep-08
220	UHV Power Transmission Company of South China Grid Company	Guangdong	OPGW-2S1/(16B1+8B4)(0/131-102.9)	500	16B1+8B4	224.764	Sep-08
221	Guangxi Power Company	Guangxi	OPGW-2S1/24B1(0/89-50.3)	220	24B1	82.350	Sep-08
222	Dongbei Power Enterprises Bureau Power Transmission Line Construction Company	Liaoning	OPGW-2S1/24B1(0/143-181.5)	500	24B1	115.682	Oct-08
223	Sichuan Power Company	Sichuan	OPGW-2S1/24B1(0/103-59.2)	500	24B1	189.475	Oct-08
224	Hubei Power Company	Hubei	OPGW-2S1/24B1(0/98-70.5)	220	24B1	53.850	Oct-08
225	Yunnan Power Grid Chunxiong Power Supply Bureau	Yunnan	OPGW-2S1/24B1(0/98-73.0)	220	24B1	68.485	Oct-08
226	Dongbei Electric Grid Company Shenyang UHV Bureau	Liaoning	OPGW-2S1/24B1(0/143-180.5)	500	24B1	59.590	Oct-08
227	Lanzhou UHV Power Transmission and Transformation Company	Gansu	OPGW-2S1/24B1(0/103-80.2)	330	24B1	179.332	Nov-08



228	Zhangjiakou Power Supply Company Materials Supply Company	Beijing	OPGW-2S1/12B1(0/112-97.0)	220	12B1	54.120	Nov-08
229	Henan Power Company	Henan	OPGW-2S1/(12B1+12B4) (0/140-180.4)	500	12B1+12B4	78.170	Nov-08
230	Liaoning Power Company Chaoyang Power Supply Company	Liaoning	OPGW-2S1/24B1(59/30-62.9)	220	24B1	71.290	Nov-08
231	Liaoning Power Company Dandong Power Supply Company	Liaoning	OPGW-2S1/24B1(0/128-127.9)	500	24B1	108.370	Nov-08
232	Liaoning Power Company Dandong Power Supply Company	Liaoning	OPGW-2S1/24B1(0/128-127.9)	500	24B1	61.000	Nov-08
233	Liaoning Electric Power Co., Ltd.Benxi Branch	Liaoning	OPGW-2S1/24B1(0/110-91.4)	500	24B1	93.529	Dec-08
234	North China Power Grid Co., Ltd.	Beijing	OPGW-2S1/24B1(0/103-65.0)	500	24B1	288.986	Dec-08
235	Liaoning Electric Power Co., Ltd.Jinzhou Branch	Liaoning	OPGW-1C1/24B1(0/48-15.9)	66	24B1	48.497	Jan-09
236	Central China Power International trade limited liability company	Hubei	OPGW-2S1/(12B1+12B4)(0/110-61.1)	500	12B1+12B4	224.91	Jan-09
237	Haibei power company	Qinghai	OPGW-1C1/16B1(0/42-9.0)	110	16B1	118.257	Feb-09
238	Central China Power International trade limited liability company	Hubei	OPGW-2S1/(12B1+12B4)(0/110-61.1)	500	12B1+12B4	224.910	Jan-09
239	Haibei power company	Qinghai	OPGW-1C1/16B1(0/42-9.0)	110	16B1	118.257	Feb-09
240	state power grid	BEIJING	OPGW-2S1/24B1(0/110-71.7)	500	24B1	81.134	Mar-09
241	state power grid	BEIJING	OPGW-2S1/24B1(0/110-71.7)	500	24B1	74.296	Mar-09
242	state power grid	BEIJING	OPGW-2S1/24B1(0/110-71.7)	500	24B1	72.748	Mar-09
243	guangxi water conservancy and electric corporation	GUANGXI	OPGW-1C1/16B1(0/48-17.7)	110	16B1	72.326	Mar-09
244	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/24B1(85/42-131.8)	110	24B1	54.160	Mar-09
245	huabei power grid co.,ltd	SHANGHAI	OPGW-2S1/36B1(0/143-157.9)	500	36B1	50.808	Mar-09
246	Communication Automation Center of Heilongjiang Electric Power Co., Ltd.	HEILONGJIANG	OPGW-1C1/24B1(0/37-8.9)	110	24B1	102.775	Mar-09
247	yunnan power grid corporation	YUNNAN	OPGW - 2S 1/16B1 (0/102 -61.3 )	500	16B1	232.076	Mar-09
248	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S2/48B1(0/84-49.9)	110	48B1	212.440	Apr-09
249	shanxi electric company	SHANXI	OPGW-2S2/36B1 ( 0/105-75 )	330	36B1	129.820	Mar-09
250	guizhou power grid company	GUIZHOU	OPGW-2S1/24B1(0/110-83.2)	500	24B1	104.200	Mar-09
251	liaoning electric company	LIAONING	OPGW-2S1/24B1(69/35-100.4)	220	24B1	55.619	Mar-09
252	baishan power plant	LIAONING	OPGW-1C1/24B1(0/42-13.6)	110	24B1	96.055	Mar-09
253	dongbei power grid corporation liaotong power supply company	LIAONING	OPGW-2S1/16B1(83/37-125.5)	220	16B1	102.338	Mar-09
254	dongbei power grid corporation liaotong power supply company	LIAONING	OPGW-2S1/16B1(83/37-125.5)	220	16B1	57.549	Mar-09

255	state power grid	BEIJING	OPGW-2S1/24B1(0/88-40.2)	330	24B1	126.450	Mar-09
256	ankang power supply company of shanxi electric company	SHANXI	OPGW-2S1/24B1(59/30-73.1)	110	24B1	76.570	Mar-09
257	daqing electric installation branch of heilongjiang beixing electric corporation	HEILONGJIANG	OPGW-1C1/12B1(0/68-31.9)	110	12B1	50.050	Mar-09
258	communiacation center of guangdong power grid	GUANGDONG	OPGW-2S1/24B1(0/110-90.0)	500	24B1	69.135	Mar-09
259	communiacation center of guangdong power grid	GUANGDONG	OPGW-2S2/48B1(0/105-118.6)	500	48B1	54.610	Mar-09
260	hunnan electric company	HUNAN	OPGW-2S1/(16B1+8B4)(0/128-81.2)	500	16B1+8B4	148.011	Mar-09
261	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/32B1(69/43-113.8)	110	32B1	96.150	Apr-09
262	henan electric company	HENAN	OPGW-2S1/24B1(0/140-180.4)	500	24B1	66.880	May-09
263	Branch Xilin Gol League, Inner Mongolia Datang International Preparatory Office of coal chemical projects	INNER MONGOLIA	OPGW-2S1/16B1(0/98-79.2)	220	16B1	67.915	Apr-09
264	liaoning electric company	LIAONING	OPGW-2S1/24B1(59/30-67.9)	220	24B1	104.435	Apr-09
265	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-1C1/48B1 (0/72-60.7)	110	48B1	74.157	Apr-09
266	chongqing electric company	CHONGQING	OPGW-2S1/24B1(97/48-174.2)	220	24B1	75.720	Apr-09
267	tianjing Electric Power Transmission & transformation Company	TIANJING	OPGW-2S1/48B1(0/154-192.8)	220	48B1	108.340	Apr-09
268	Sub-Transmission and Distribution Co., Ltd., Inner Mongolia, Chengdu Branch	INNER MONGOLIA	OPGW-2S1/16B1(0/128-141.6)	220	16B1	87.950	Apr-09
269	tibet electric company	TIBET	OPGW-2S1/24B1(0/89-40.5)	220	24B1	95.789	Apr-09
270	tibet electric company	TIBET	OPGW-2S1/24B1(0/89-40.5)	220	24B1	105.394	Apr-09
271	the fourth company of inner mongolia electric power transmission & transformation company	JIANGSU	OPGW-2S1/16B1(0/112-103.1)	110	16B1	107.370	Apr-09
272	Gansu Province Pingliang Power supply Company	GANSU	OPGW-2S1/16B1(63/28-74.6)	110	16B1	50.395	May-09
273	Xinjiang New Energy source Group Co., Ltd	XINJIANG	OPGW-1C1/16B1(0/58-30.2)	110	16B1	61.100	Apr-09
274	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S2/32B1(0/77-30.2)	110	32B1	134.000	May-09
275	Shandong Lun Material Group Co., Ltd	SHANDONG	OPGW-2S1/24B1(0/115-104.1)	220	24B1	87.894	May-09
276	chifeng power administration	LIAONING	OPGW-2S1/12B1(0/131-133.7)	500	12B1	164.515	May-09
277	chifeng power administration	LIAONING	OPGW-2S1/12B1(0/131-133.7)	500	12B1	164.680	May-09
278	chifeng power administration	LIAONING	OPGW-2S1/12B1(0/131-133.7)	500	12B1	184.915	May-09

279	jiangsu material group co.,ltd	JIANGSU	OPGW-2S1/36B1(0/143-157.9)	220	36B1	65.852	May-09
280	Wulanchabu Inner Mongolia Electric Power Bureau	INNER MONGOLIA	OPGW-1C1/16B1(0/61-31.2)	110	16B1	115.000	May-09
281	Inner Mongolia Transmission and Distribution Co., Ltd, Meng Xi Branch	INNER MONGOLIA	OPGW-2S1/16B1(0/128-141.6)	220	16B1	70.672	May-09
282	Gansu Province, Lanzhou High Voltage Transmission Power Company	GANSU	OPGW-2S1/24B1(0/120-67.6)	330	24B1	79.416	May-09
283	shanxi electric company	SHANXI	OPGW-2S1/24B1(0/112-100.1)	220	24B1	55.130	Jun-09
284	bijie power office	GUIZHOU	OPGW-1C1/24B1(0/48-21.1)	110	24B1	68.630	Jun-09
285	Guangdong Power Grid's Power and Communication Center	GUANGDONG	OPGW-2S1/12B1(0/98-68.2)	220	12B1	86.420	Jun-09
286	Shandong Luneng Material Group Co., Ltd	GUANGDONG	OPGW-2S1/24B1(0/111-88.5)	220	24B1	165.240	Jun-09
287	Fujian Electric Power Survey & Design Institute	FUJIAN	OPGW-2S1/24B1(0/143-162.1)	220	24B1	60.687	Jun-09
288	jiamushi Electric Power Bureau	HEILONGJIANG	OPGW-2S1/24B1(91/46-148.5)	220	24B1	75.500	Jun-09
289	guizhou power grid company	GUIZHOU	OPGW-2S1/16B1(0/103-77.1)	500	16B1	99.600	Jun-09
290	east of china power grid company	BEIJING	OPGW-2S1/24B1(0/103-65.0)	500	24B1	265.931	May-09
291	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S2/48B1(0/84-49.9)	110	48B1	87.395	Jul-09
292	Xinjiang New Energy source Group Co., Ltd	XINJIANG	OPGW-2S1/24B1(0/96-55.1)	220	24B1	321.772	Jun-09
293	lijiang power supply bureau yunnan power grid corporation	YUNNAN	OPGW-2S1/(18B1+6B4)(0/110-72.0)	220	18B1+6B4	218.712	Jun-09
294	guangxi electric development co.,ltd	GUANGXI	OPGW-2S1/24B1(0/100-63.9)	220	24B1	97.853	Jun-09
295	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-1C1/18B1(0/58-16.3)	110	18B1	148.556	Jul-09
296	Shanghai hengyu International Trade Co., Ltd	JIANGSU	OPGW-2S1/8B1(0/88-58.0)	220	8B1	210.581	Jun-09
297	Grid construction management company in Henan Province	HENAN	OPGW-2S1/24B1(0/148-180.3)	220	24B1	50.840	Jun-09
298	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/24B4(85/42-131.8)	110	24B4	155.705	Jul-09
299	Guangdong Power Grid's Power and Communication Center	GUANGDONG	OPGW-2S2/48B1(0/105-80.4)	220	48B1	72.810	Jul-09
300	Guangdong Power Grid's Power and Communication Center	GUANGDONG	OPGW-2S2/48B1(0/105-80.4)	220	48B1	67.735	Sep-09
301	shandong electric company	GUANGDONG	OPGW-2S1/24B1(0/119-102.9)	220	24B1	78.076	Aug-09
302	shandong electric company	SHANDONG	OPGW-2S1/24B1(0/119-110.1)	220	24B1	101.976	Jul-09
303	the state grid direct current project construction coporation	BEIJING	OPGW-2S1/24B1(0/176-156.0)	800	24B1	67.721	Jul-09
304	the state grid direct current project construction coporation	BEIJING	OPGW-2S1/24B1(0/176-156.0)	800	24B1	113.841	Jul-09

305	the state grid direct current project construction coporation	BEIJING	OPGW-2S1/24B1(0/176-156.0)	800	24B1	58.150	Jul-09
306	the state grid direct current project construction coporation	BEIJING	OPGW-2S1/24B1(0/176-156.0)	800	24B1	57.741	Jul-09
307	Suzhou Furukawa Electric Cable Co., Ltd	JIANGSU	OPGW	110		153.050	May-09
308	Xinjiang New Energy source Group Co., Ltd	XINJIANG	OPGW-1C1/24B1(0/68-40.10)	110	24B1	85.456	Jul-09
309	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/16B1(0/128-147.5)	220	16B1	70.530	Jul-09
310	shangdong lusa electric wind company	JIANGSU	OPGW-2S1/16B1-88(59/30-62.9)	110	16B1	62.296	Aug-09
311	zunyi power supply office	GUIZHOU	OPGW-1C1/24B1(0/42-12.8)	220	24B1	75.487	Jul-09
312	zunyi power supply office	GUIZHOU	OPGW-1C1/24B1(0/42-12.8)	110	24B1	86.975	Jul-09
313	zunyi power supply office	GUIZHOU	OPGW-1C1/24B1(0/42-12.8)	110	24B1	59.943	Jul-09
314	jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/24B1(85/42-131.8)	110	24B1	50.780	Aug-09
315	liaoning electric company	JIANGSU	OPGW-1C1/24B1(0/48-19.1)	66	24B1	52.351	Jul-09
316	hunan electric company	HUNAN	OPGW-2S1/(16B1+8B4)(0/120-76.5)	500	16B1+8B4	209.287	Aug-09
317	electric communication center of guangdong power grid corporation	GUANGDONG	OPGW-2S2/48B1(0/105-80.4)	220	48B1	50.700	Aug-09
318	the first engineering department company of inner mongolia electric power transmission & transformation company	INNER MONGOLIA	OPGW-2S1/24B1 (0/127-144.3)	220	24B1	116.180	Aug-09

319	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-1C1/48B1(0/61-25.5)	110	48B1	201.120	Sep-09
320	Hegang Electric Power Bureau	HEILONGJIANG	OPGW-2S1/24B1(64/46-100.8)	220	24B1	55.765	Sep-09
321	Guangdong Power Grid Corporation	GUANGDONG	OPGW-2S2/(36B1+12B4)(0/120-157.5)	500	36B1+12B4	83.888	Sep-09
322	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/24B1(0/98-65.6)	110	24B1	323.706	Oct-09
323	Guizhou Power Grid Company	GUIZHOU	OPGW-1C1/12B1(0/48-12.7)	110	12B1	52.472	Oct-09
324	Jilin Province Electric Power Co., Ltd	JILIN	OPGW-2S1/24B1(0/110-62.3)	220	24B1	59.890	Sep-09
325	Guizhou Power Grid Company	GUIZHOU	OPGW-2S1/24B1(0/98-37.0)	220	24B1	69.700	Oct-09
326	Sonid tezuo Power Co., Ltd.	Inner Mongolia	OPGW-2S1/16B1(0/77-34.3)	110	16B1	116.555	Oct-09
327	Hegang Power Supply Bureau	HEILONGJIANG	OPGW-2S1/24B1(64/46-100.8)	220	24B1	93.445	Oct-09
328	Shanxi Provincial Power Company	SHANXI	OPGW-2S1/24B1(0/142-102.5)	750	24B1	163.240	Nov-09
329	Jiangxi Provincial Power Company	JIANGXI	OPGW-2S1/(16B1+8B4)(0/110-62.6)	500	16B1+8B4	73.260	Oct-09
330	Liaoning Provincial Electric Power Co., Ltd	LIAONING	OPGW-2S1/12B1(0/103-90.2)	220	12B1	112.880	Oct-09
331	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-1C1/(24B1+12B4)(0/65-28.5)	110	24B1+12B4	60.000	Oct-09
332	Anhui Power Company Materials Company	ANHUI	OPGW-2S1/16B1(0/98-79.2)	110	16B1	68.010	Nov-09
333	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/10B1(85/42-131.8)	220	10B1	60.970	Nov-09
334	Liaoning Provincial Electric Power Co., Ltd	LIAONING	OPGW-2S1/24B1(0/119-111.6)	220	24B1	59.450	Dec-09
335	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-1C1/(24B1+12B4)(0/65-28.5)	110	24B1+12B4	151.120	Dec-09
336	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/24B1(59-30-57.9)	220	24B1	80.000	Nov-09
337	Shandong Province Power Company	SHANDONG	OPGW-2S1/24B1(0/111-100.3)	220	24B1	57.993	Nov-09
338	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/24B1(59/30-57.9)	220	24B1	70.000	Dec-09
339	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/12B1(63/28-77.1)	220	12B1	84.000	Dec-09
340	Jiangsu zhongtian technology co. ,ltd	JIANGSU	OPGW-2S1/12B1(63/28-77.1)	220	12B1	72.000	Dec-09