

**OPGW REFERENCES**

OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
double armor	4	ENEL	Italy	2,9	1983/19	EUR	
single armor	4	Electronorte	Mexico	1,4	1984	AME	
single armor	6	Lower Valley Power & Light	USA	49	1986	AME	
single armor	18	Ohio Edison	USA	42	1986	AME	
double armor	4	SOE	IRAK	135	1986	ME	
single armor	24	Pacific Gas & Electricity	USA	20	1987	AME	
single armor	12	Tennessee Valley Authority	USA	1	1987	AME	
single armor	4	ENEL	Italy	20,5	1987	EUR	
single armor	6	Vitroseleina	Italy	2,5	1987	EUR	
single armour	4	Hidroila	Spain	1	1987	EUR	
single armour	4	REE	Spain	196	1987	EUR	
single armor	6	North China Elec.Power Adm.	China	14	1988	FEA	
single armour	4	Gesa	Spain	43	1988	EUR	
double armor	4	Hyundai-Sceco Central	KSA	432	1989	ME	
single armour	6	ERZ	Spain	12	1989	EUR	
single armour	8	TNB 3	Malaysia	52	1990	SEA	
single armour	8	Gesa	Spain	8	1990	EUR	
single armour	12	Hidroila	Spain	61	1990	EUR	
single armour	6	Unelco	Spain	11	1990	EUR	
single armour	6	REE	Spain	330	1990	EUR	
single armour	6	C.S.E.	Spain	39	1990	EUR	
single armour	6	Engecom	Brasil	1	1991	AME	
single armour	4	Petrobras	Brasil	1	1991	AME	
single armour	4	Endesa	Spain	25	1991	EUR	
single armour	6	Gesa	Spain	50	1991	EUR	
single armour	4	ERZ	Spain	26	1991	EUR	
single armour	6	Elecnor	Spain	34	1991	EUR	
single armour	6	C.Abengoa	Spain	47	1991	EUR	
single armour	12	Amara	Spain	74	1991	EUR	
single armour	6	C.S.E.	Spain	39	1991	EUR	
single armour	6	REE	Spain	182	1991	EUR	
single armour	12	C.S.E.	Spain	217	1991	EUR	
Single armour	24	Telemig	Brasil	13	1992	AME	
single armour	6	REE	Spain	450	1992	EUR	
single armour	6	Amara	Spain	77	1992	EUR	
single armour	12	C.S.E.	Spain	30	1992	EUR	
single armour	6	REE	Spain	460	1993	EUR	
single armour	8	Union Fenosa	Spain	28	1993	EUR	
single armour	12	Iberdrola	Spain	7	1993	EUR	
Single armour	18	CHESF	Brasil	4	1994	AME	
Single armour	24	TELEMIG	Brasil	48	1994	AME	
Single armour	24	Electropaulo	Brasil	9	1994	AME	
Single armour	6	CHESF	Brasil	30	1994	AME	
single armour	6	TNB 3	Malaysia	142	1994	SEA	
single armour	10	TNB 3	Malaysia	24	1994	SEA	
single armour	8	Isolux-Watt	Mexico	79	1994	AME	
single armour	6	C.F.E.	Mexico	162	1994	AME	
single armour	8	ERZ	Spain	29	1994	EUR	
single armour	12	Fecsa	Spain	28	1994	EUR	
single armour	12	C.S.E.	Spain	80	1994	EUR	
single armour	6	REE	Spain	760	1994	EUR	
single armour	12	Iberdrola	Spain	397	1994	EUR	
single armour	10	Isotron	Spain	1	1994	EUR	
Single armour	24	EMBRATEL	Brasil	28	1995	AME	
Single armour	24	COPEL	Brasil	50	1995	AME	
Single armour	24	ABB/ CEMIG	Brasil	12	1995	AME	
Single armour	18	ULTRATEC/ CONSTRUTEL/ WIREX	Brasil	120	1995	AME	
Single armour	18	Telesc. Santa Catarina	Brasil	120	1995	AME	
Single armour	6	Chesf, Pernambuco	Brasil	30	1995	AME	
Single armour	36	TELESP	Brasil	470	1995	AME	
single armour	10	Maintenance Eng.	Malaysia	10	1995	SEA	
single armour	10	Pernas Eng.	Malaysia	23	1995	SEA	
single armour	6	REE	Spain	551	1995	EUR	
single armour	12	Iberdrola	Spain	88	1995	EUR	
single armour	24	Fecsa	Spain	43	1995	EUR	
single armour	8	Gesa	Spain	22	1995	EUR	
single armour	12	Hidr. Cantábrico	Spain	19	1995	EUR	
single armour	12	Iberdrola	Spain	26	1995	EUR	
single armour	12	Cobra	Spain	2	1995	EUR	
single armour	12	Isotron	Spain	1	1995	EUR	
single armour	12	Isolux-Watt	Spain	1	1995	EUR	
single armour	10	Cables Pirelli S.A. Argentina	Argentina	8	1996	AME	
single armour	24	Cemig, Minas Gerais	Brasil	12	1996	AME	
Single armour	24	TELEMIG	Brasil	34	1996	AME	
Single armour	36	EMBRATEL	Brasil	610	1996	AME	

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OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	36	COPEL	Brasil	153	1996	AME	
single armour	10	Maintenance Eng.	Malaysia	220	1996	SEA	
single armour	10	Rolls-Royce Ind. Power	Malaysia	4	1996	SEA	
single armour	10	Transfield Resources Sdn.	Malaysia	47	1996	SEA	
single armour	10	Pernas Eng.	Malaysia	103	1996	SEA	
single armour	6	Nouva Magrini Galileo, S.p.a.	Mexico	9	1996	AME	
single armour	6	REE	Spain	964	1996	EUR	
single armour	12	Iberdrola	Spain	88	1996	EUR	
single armour	6	Iberdrola	Spain	4	1996	EUR	
single armour	12	Hidr. Cantábrico	Spain	1	1996	EUR	
single armour	12	REE	Spain	87	1996	EUR	
single armour	12	Siemsa Norte, SA	Spain	4	1996	EUR	
single armour	12	ENHER	Spain	3	1996	EUR	
single armour	16	Iberdrola	Spain	47	1996	EUR	
single armour	18	Petroleos de venezuela, S.A.	Venezuela	482	1996	AME	
Single armour	36	Embratel	Brasil	300	1997	AME	
Single armour	36	COPEL	Brasil	36	1997	AME	
Single armour	36	ELECTRONORTE	Brasil	538	1997	AME	
Single armour	24	Electronorte	Brasil	896	1997	AME	
single armour	24	ENTEL	Chile	200	1997	AME	
single armour	12	Pirelli E y T S.A. (Norgener)	Chile	91	1997	AME	
single armour	18	Minera Escondida Limitada	Chile	2	1997	AME	
single armour	48	ISA (Interconexión Eléctrica SA)	Colombia	18	1997	AME	
single armour	48	La Alianza	Colombia	631	1997	AME	
Single armour	48	ISA (Interconexión Eléctrica SA)	Colombia	330	1997	AME	
Single armour	48	ISA (Interconexión Eléctrica SA)	Colombia	200	1997	AME	
Single armour	24	ENEL	Italy	300	1997	EUR	
Single armour	24	ENEL	Italy	120	1997	EUR	
Double armour	24	ENEL	Italy	1610	1997	EUR	
single armour	10	Transfield Resources Sdn. Bhd.	Malaysia	17	1997	SEA	
single armour	10	Arab-Malaysian Best & Crompton Sdn Bhd	Malaysia	67	1997	SEA	
single armour	10	HG Power Eng Sdn Bhd	Malaysia	56	1997	SEA	
single armour	12	Luz y Fuerza del Centro	Mexico	120	1997	AME	
single armour	12	Luz y Fuerza del Centro	Mexico	42	1997	AME	
single armour	12	Isolux-Watt	Mexico	80	1997	AME	
single armour	8	Empresa de Generación Eléctrica San Gabán	Perú	185	1997	AME	
single armour	12	Fiber Optic Systems	South Africa	5	1997	AFR	
single armour	24	Fiber Optic Systems	South Africa	1	1997	AFR	
single armour	24	Fiber Optic Systems	South Africa	126	1997	AFR	
single armour	12	REE	Spain	343	1997	EUR	
Single armour	24	Fecsa	Spain	20	1997	EUR	
Single armour	8	ELECNOR	Spain	7	1997	EUR	
Single armour	8	ERZ	Spain	5	1997	EUR	
Single armour	12	ENHER	Spain	3	1997	EUR	
single armour	24	ABB Thailand	Thailand	3	1997	SEA	
Single armour	24	CEMIG	Brasil	366	1998	AME	
Single armour	24	CELPA	Brasil	361	1998	AME	
Single armour	36	COPEL	Brasil	296	1998	AME	
Single armour	24	ENTEL	Chile	500	1998	AME	
Single armour	24	ENTEL	Chile	605	1998	AME	
Single armour	48	Eléctricas de Medellín	Colombia	45	1998	AME	
Double armour	32	KEC Water and Electricity Department	U.A.E	400	1998	ME	
Double armour	12	Landsvirkjun	Iceland	101	1998	EUR	
Single armour	18	Tenaga Nasional Berhad HG Power	Malaysia	175	1998	SEA	
Single armour	18	Tenaga Nasional Berhad Pernas Engineering	Malaysia	116	1998	SEA	
Single armour	18	Tenaga Nasional Berhad Maintenance Engineering	Malaysia	83	1998	SEA	
Single armour	12	Comisión Federal de electricidad	Mexico	30	1998	AME	
Single armour	24	KEC (Motraco)	South Africa	143	1998	AFR	
Single armour	12	UTE	Uruguay	50	1998	AME	
Single armour	18	Pedvesa	Venezuela	210	1998	AME	
Single armour	16	ZESA	Zimbabwe	450	1998	AFR	
Single armour	24	POWER GRID	India	380	1999	IS	G655
Single armour	12	APSEB	India	540	1999	IS	G655
Single armour	24	Electricity Corporation ABB Sae Sadelmi	KSA	280	1999	ME	G655
Single armour	24	CHESF	Brasil	603	1999	AME	
Single armour	36	CAMARGO CORREA	Brasil	60	1999	AME	
Single armour	24	FURNAS	Brasil	273	1999	AME	
Single armour	12	ELECTRONORTE	Brasil	317	1999	AME	
Single armour	18	Ingendesa	Chile	200	1999	AME	
Single armour	48	La Alianza	Colombia	540	1999	AME	
Single armour	48	LA ALIANZA Fase II	Colombia	560	1999	AME	
Single armour	48	ISA	Colombia	100	1999	AME	
Single armour	24	ISA	Colombia	15	1999	AME	
Single armour	24	ABB	Costa de Marfil	18	1999	AFR	
Single armour	24	ICE	Costa Rica	23	1999	AME	

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OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	24	ICE	Costa Rica	46	1999	AME	
Single armour	24	ICE	Costa Rica	50	1999	AME	
Double armour	16	SAG (ADWEA)	U.A.E	150	1999	ME	
Single armour	8	MEW	U.A.E	70	1999	ME	
Double armour	18	ABB – GNPC	Ghana	162	1999	AFR	
Double armour	18	ABB – VRA	Ghana	86	1999	AFR	
Single armour	24	MVM	Hungary	200	1999	EUR	
Single armour	12	APTRANSCO	India	549	1999	IS	
Double armour	24	ENEL	Italy	480	1999	EUR	
Single armour	12	SIEMENS	Kenya	8	1999	AFR	
Single armour	24	LIETUVOS ENERGIJA	Lithuania	280	1999	EUR	
Single armour	18	HG Power	Malaysia	25	1999	SEA	
Single armour	18	TRANSPRO (TNB)	Malaysia	32	1999	SEA	
Single armour	18	HG Power (TNB)	Malaysia	60	1999	SEA	
Single armour	18	PERNAS (TNB)	Malaysia	19	1999	SEA	
Single armour	18	SARWAJA (SESCO)	Malaysia	15	1999	SEA	
Single armour	72	Bestel	Mexico	500	1999	AME	
Single armour	12	Comisión Federal de Electricidad	Mexico	540	1999	AME	
Single armour	24	Siemens (Mandinat Al Sultan) MEW	Oman	45	1999	ME	
Double armour	24	ABB Sae Sadelmi Yanpet Petrochemical Infrac	KSA	70	1999	ME	
Double armour	24	ABB (Yanpet)	KSA	70	1999	ME	
Single armour	12	ABB (Electricity Corporation)	KSA	270	1999	ME	
Single armour	12	FOS – Oribi Plains	South Africa	15	1999	AFR	
Single armour	48	Iberdrola	Spain	422	1999	EUR	
Single armour	24	REE	Spain	45	1999	EUR	
Single armour	48	SEVILLANA DE ELDA.	Spain	63	1999	EUR	
Single armour	12	ABB – CFE	Spain	45	1999	EUR	
Single armour	48	IBERDROLA	Spain	1000	1999	EUR	G655
Single armour	48	ENDESA	Spain	400	1999	EUR	G655
Single armour	24	REE	Spain	100	1999	EUR	
Single armour	16	PEEGT /KEC	Syria	390	1999	ME	
Single armour	24	EGAT	Thailand	19	1999	SEA	
Single armour	24	BLACK & VEATCH (EGAT)	Thailand	20	1999	SEA	
Single armour	48	EDISON	Italy	800	2000	EUR	G655
Single armour	24	Powerlink	Australia	52	2000	AUS	
Single armour	24	Powerlink	Australia	51	2000	AUS	
Single armour	24	Sirti	Bolivia	7	2000	AME	
Single armour	24	BOA VISTA ENERGIA	Brasil	25	2000	AME	
Single armour	36	ELECTRONORTE	Brasil	400	2000	AME	
Single armour	24	ELECTRONORTE	Brasil	195	2000	AME	
Single armour	48	FURUKAWA/ ELETRONET	Brasil	570	2000	AME	
Single armour	24	North East China Power Group	China	750	2000	FEA	
Single Armour	24	Yanxi Power – Jilin Province	China	130	2000	FEA	
Single Armour	12	Hunan Province	China	85	2000	FEA	
Single Armour	16	State Power Corporation (3 Gorges Project)	China	1050	2000	FEA	
Single Armour	24	Guandong	China	71	2000	FEA	
Single armour	24	Zhejiang – Wenzhou	China	30	2000	FEA	
Double armour	24	Zhejiang - Qinghang	China	63	2000	FEA	
Single armour	24	Zhejiang - Hangzhou	China	133	2000	FEA	
Double armour	16	ADWEA	U.A.E	25	2000	ME	
Single Armour	12	Power Transmission Company- FEWA	U.A.E	80	2000	ME	
Single Armour	24	AMOUN- EEA	Egypt	35	2000	AFR	
Single Armour	16	HG Power - PLN	Indonesia	70	2000	SEA	
Single Armour	12	KEC- KENGEN	Kenya	115	2000	AFR	
Single armour	24	EDL	Lebanon	200	2000	ME	
Single Armour	24	MESB – TNB	Malaysia	60	2000	SEA	
Single Armour	18	AMBC – TNB	Malaysia	78	2000	SEA	
Single armour	18	Pernas	Malaysia	6	2000	SEA	
Single armour	12	SOGEM	Mali	326	2000	AFR	
Single armour	12	Comisión Federal de Electricidad	Mexico	154	2000	AME	
Single armour	12	Dinsa	Mexico	30	2000	AME	
Single armour	24	Abengoa	Perú	18	2000	AME	
Single armour	24	Southern Energy	Philippines	19	2000	SEA	
Double armour	36	SCECO-C	KSA	433	2000	ME	
Single armour	24	ENDESA	Spain	260	2000	EUR	
Single armour	80	IBERDROLA	Spain	900	2000	EUR	G655
Single Armour	60	Electro-Sandberg- Svenska Kraft	Sweden	50	2000	EUR	
Single Armour	24	PEA	Thailand	60	2000	SEA	
Single armour	24	Sadeven	Venezuela	60	2000	AME	
Single armour	12	Sadeven	Venezuela	16	2000	AME	
Single armour	24	TRANSENER	Argentina	20	2001	AME	
Single armour	48	ISA - Calle 12 # 18-168 A.A 8915	Colombia	21	2001	AME	
Single armour	18	HWC ANDINA	Venezuela	5	2001	AME	
Single armour	36	COMISION FEDERAL DE ELECTRICIDAD	Mexico	36	2001	AME	
Single armour	24	Tianshenqiao Project	China	220	2001	FEA	G655

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OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	24	Basicel	Italy	800	2001	EUR	G655
Single armour	48	REE – Proyecto Nema	Spain	544	2001	EUR	G655
Single Armour	96	REE	Spain	150	2001	EUR	G655
Single armour	48	REE	Spain	1300	2001	EUR	G655
Single armour	80	IBERDROLA	Spain	700	2001	EUR	G655
Single armour	24	Slebos Research - EPS	Yugoslavia	270	2001	EUR	G655
Double armour	24	ABB- Algeria - 400 kV	Algeria	78	2001	AFR	
Single armour	30	SPI- Powernet	Australia	57	2001	AUS	
Single armour	24	ELETRONET	Brasil	180	2001	AME	
Single armour	48	ELETRONET	Brasil	540	2001	AME	
Single armour	24	CABELTE/ ELETRONORTE	Brasil	660	2001	AME	
Single armour	12	SIEMENS	Brasil	45	2001	AME	
Single armour	24	COMPANHIA VALE DO RIO DOCE	Brasil	20	2001	AME	
Single armour	12	INEPAR	Brasil	80	2001	AME	
Single armour	36	IBIRITERMO	Brasil	10	2001	AME	
Single armour	24	WIREX/ COPEL	Brasil	145	2001	AME	
Single armour	36	ENELPOWER	Brasil	1100	2001	AME	
Single armour	24	BECHTEL	Chile	26	2001	AME	
Single armour	24	China Power Electric (Xiaogan-Han Yang)	China	70	2001	FEA	
Single armour	24	China N -Changyang (Shuibuya)	China	90	2001	FEA	
Single armour	24	Shandong Electric power	China	82	2001	FEA	
Single armour	24	Henan (Xinxiang)	China	203	2001	FEA	
Double armour	36	Jinha-Fuzhou (Fujian I)	China	140	2001	FEA	
Single armour	24	Shuibuya – Changyang Line	China	94	2001	FEA	
Single armour	24	Xiaogan – Han Yan Line	China	64	2001	FEA	
Double armour	40	Heliongjiang	China	11	2001	FEA	
Single armour	12	Shenzhen- Yunan	China	13	2001	FEA	
Single armour	12	ALSTOM Transmission	Colombia	7	2001	AME	
Double armour	12	Landsvirkjun	Iceland	4	2001	EUR	
Single armour	16	HG Power	Indonesia	60	2001	SEA	
Double armour	12	PT Network	Indonesia	4	2001	SEA	
Single armour	16	NEPCO	Jordan	85	2001	ME	
Single armour	24	AMBC	Malaysia	72	2001	SEA	
Single armour	24	HG Power - TNB:10740	Malaysia	800	2001	SEA	
Single armour	18	MMC	Malaysia	8	2001	SEA	
Single Armour	36	Comisión Federal de Electricidad- Chiapas	Mexico	100	2001	AME	
Single armour	12	ABB Transmission & Distribution	Mexico	162	2001	AME	
Single armour	12	Techint	Mexico	180	2001	AME	
Single armour	12	Isolux-Watt	Mexico	280	2001	AME	
Single armour	12	Sade Skanska	Mexico	49	2001	AME	
Single armour	12	Hermi Ingeniería	Mexico	6	2001	AME	
Single armour	24	National Power	Philippines	89	2001	SEA	
Single armour	24	Endesa Servicios	Spain	120	2001	EUR	
Single armour	16	GALKON/ PEEGT	Syria	390	2001	ME	
Single armour	24	PEA-B&V	Thailand	60	2001	SEA	
Double armour	10	GALKON/ TEIAS	Turkey	30	2001	EUR	G655
Double armour	10	GALKON/TEIAS	Turkey	30	2001	ME	G655
Single armour	4	AK-PE	Turkey	25	2001	ME	G655
Double armour	10	SA-RA	Turkey	2	2001	ME	G655
Single armour	24	UTE	Uruguay	42	2001	AME	
Single armour	12	Sadeven industrias	Venezuela	16	2001	AME	
Single armour	12	ABB	Venezuela	570	2002	AME	
Single armour	48	TRANSELETRIC	Equador	142	2002	AME	
Single armour	12	SADE SKANSKA	Mexico	49	2002	AME	
Single armour	36	China Machinery (Wunan- Fangchan)	China	235	2002	FEA	G655
Single/Double ar	12	Hyundai/ MEEDCO SEC- ERB	KSA	438	2002	ME	G655
Single armour	96	REE	Spain	120	2002	EUR	G655
Single armour	48	REE	Spain	823	2002	EUR	G655
Single armour	12	REE	Spain	142	2002	EUR	G655
Single armour	24	PHU MY 3	Vietnam	3	2002	FEA	G655
Single armour	12	Electricity of Vietnam (EVN)	Vietnam	459	2002	FEA	G655
Double armour	24	Kaltaparú- Hideleco - 400Kv	Algeria	167	2002	AFR	
Double armour	24	Kougc - 60 kV	Algeria	130	2002	AFR	
Double armour	24	Kahrakib - 220 kV	Algeria	140	2002	AFR	
Single armour	24	Tazmanian Hydro (Bluff Point Wind Farm)	Australia	44	2002	AUS	
Single armour	36	Alusa	Brasil	360	2002	AME	
Single armour	12	Cabelte /Cemat	Brasil	32	2002	AME	
Single armour	36	Ceee	Brasil	150	2002	AME	
Double armour	36	China Machinery (Wunan- Fangchan)	China	46	2002	FEA	
Single armour	40	Yuet Sing Trading	China	264	2002	FEA	
Single armour	24	China Power Electric (Guizhou)	China	168	2002	FEA	
Single armour	36	Jijian Yili Electric Power (Fuzhou- Cetic)	China	93	2002	FEA	
Single armour	24	State Power - Guizhou guangdong	China	330	2002	FEA	
Double armour	12	Mass Projects/ Dewa	U.A.E	53	2002	ME	
Double armour	32	ADWEA	U.A.E	470	2002	ME	

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Single armour	24	ALBARQ	Irak	152	2002	ME	
Single armour	24	ENEL- Terna	Italy	4	2002	EUR	
Single armour	24	OZDIL/EDL	Lebanon	50	2002	ME	
Single armour	12	Comisión Federal de Electricidad- Veracruz	Mexico	45	2002	AME	
Single armour	12	Abengoa Mexico	Mexico	128	2002	AME	
Single armour	12	Elecnor	Mexico	150	2002	AME	
Single armour	12	Isolux-Watt / Aguascalientes-Calera	Mexico	182	2002	AME	
Single armour	12	DINEC	Mexico	107	2002	AME	
Single armour	12	Comisión Federal de Electricidad- Guadalajara	Mexico	94	2002	AME	
Single armour	12	Isolux / Moctezuma- El Encino	Mexico	218	2002	AME	
Single armour	12	Const. y Rentas Maquinaria Occidente	Mexico	95	2002	AME	
Single armour	36	TOSAL (Manuel Moreno Torres)	Mexico	30	2002	AME	
Single armour	36	SADE SKANSKA (Manuel Moreno Torres)	Mexico	87	2002	AME	
Single armour	36	TECHINT (Manuel Moreno Torres)	Mexico	329	2002	AME	
Single armour	36	ABB (Manuel Moreno Torres)	Mexico	141	2002	AME	
Double armour	36	ABB (Manuel Moreno Torres)	Mexico	8	2002	AME	
Single armour	36	AMSA-Cobra (Manuel Moreno Torres)	Mexico	108	2002	AME	
Single armour	24	Neks Electric	Noruega	3	2002	EUR	
Single armour	24	Larsen&Toubro	Oman	55	2002	ME	
Single armour	24	MEW	Oman	75	2002	ME	
Single armour	24	Civilco	Oman	35	2002	ME	
Double armour	24	KAHRAMAA	Qatar	30	2002	ME	
Double armour	8	SKEMA - CYPRUS	Rusia	6	2002	EUR	
Single armour	8	SKEMA - CYPRUS	Rusia	321	2002	EUR	
Single armour	16	SKEMA - CYPRUS	Rusia	13	2002	EUR	
Single armour	24	SKEMA - CYPRUS	Rusia	1,4	2002	EUR	
Single/Double arm	36/24	Al Shariff /KEC SEC- CRB	KSA	275	2002	ME	
Single armour	12&24	SEC-CRB	KSA	320	2002	ME	
Double armour	12	SEC-ERB	KSA	20	2002	ME	
Single armour	48	Hidroeléctrica del Cantábrico	Spain	7	2002	EUR	
Single armour	36	Amara	Spain	27	2002	EUR	
Single armour	24	Salto del Navia	Spain	34	2002	EUR	
Single armour	48	Endesa Servicios	Spain	61	2002	EUR	
Single armour	12	Endesa Servicios	Spain	18	2002	EUR	
Single armour	24	IBERINCO	Spain	45	2002	EUR	
armadura sencilla	18	SIGDO KOPPERS	Chile	212	2003	AME	
armadura sencilla	24	INSTITUTO COSTARRICENSE DE ELECTRICIDAD	Costa Rica	550	2003	AME	
armadura sencilla	24	Electricas de Medellín	Colombia	64	2003	AME	
armadura sencilla	12	Obras y Desarrollo	Chile	35	2003	AME	
armadura sencilla	36	PROCABLE OPGW 36FO LT 230KV Paulo Afonso	Brasil	23	2003	AME	
armadura sencilla	12	ABB VENEZUELA	Venezuela	9	2003	AME	
Single armour	48	Hidroeléctrica del Cantábrico	Spain	33	2003	EUR	
Single armour	24	IBERINCO	Spain	136	2003	EUR	
Single armour	24	Elecnor	Spain	30	2003	EUR	
Single armour	24	Endesa Servicios	Spain	55	2003	EUR	
Single armour	48	REE	Spain	325	2003	EUR	
Single armour	16	SCOT	Syria	110	2003	ME	
Double armour	10	SA-RA/ TEIAS	Turkey	50	2003	ME	G655
Double armour	36	SANTEE COOPER	USA	4	2003	AME	
Single armour	96	SCANA POWER	USA	7	2003	AME	
Single armour	16	ZESA	Zimbabwe	10	2003	AFR	
Single armour	24	National Contracting (Saudi Electric)	KSA	215,6	2003	ME	G655
Single armour	24	ELECTROIMPEX	Bulgaria	139	2003	EUR	G655
Single armour	24	PIRELLI ALEMANIA (TELESPRINT 90)	Bulgaria	30,5	2003	EUR	G655
Single armour	36	Transelectrica (INABENSA)	Romania	1244	2003	EUR	G655
Single armour	12	SUN IVY	Vietnam	23	2003	FEA	G655
Single armour	12	SUN IVY (Bac Giang)	Vietnam	64	2003	FEA	G655
Single armour	12	VINAELECTRO	Vietnam	153	2003	FEA	G655
Double armour	12	ELECTRICITY OF VIETNAM	Vietnam	11	2003	FEA	G655
Single armour	12	ELECTRICITY OF VIETNAM	Vietnam	85	2003	FEA	G655
Single armour	24	ABB- ALBANIA	Albania	14,5	2003	AME	
Single armour	24	TCIL INDIA (Alger)	Algeria	1041	2003	AFR	
Single armour	48	TCIL INDIA (Alger)	Algeria	17	2003	AFR	
Single armour	12	National Steel and Iron Fact.	KSA	19,7	2003	ME	
Single armour	24	Kahrakib 60 kv	Algeria	153	2003	AFR	
Single armour	24	Kahrakib 60 kv	Algeria	15	2003	AFR	
Single armour	24	PIRELLI AUSTRALIA	Australia	10	2003	AUS	
Single armour	12	Central China Elec. Power(Fenghuanshan)	China	166	2003	FEA	
Double armour	12	Central China Elec. Power	China	24,7	2003	FEA	
Single armour	24	Shandong (Datong-Baobei)	China	308	2003	FEA	
Double armour	24	Shandong (Datong-Baobei)	China	8,7	2003	FEA	
Single armour	48	PIRELLI WUXI	China	7,5	2003	FEA	
Single armour	36	CETIC -DAMALU	China	235	2003	FEA	
Single armour	24	CETIC -DAMALU	China	4	2003	FEA	
Single armour	10	Electra Corporation (ZAO)	Kazakhstan	41,8	2003	EUR	

**OPGW REFERENCES**

OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	24	DALING D.O.O.	Libya	79	2003	ME	
Single armour	8	DALING D.O.O.	Libya	12	2003	ME	
Single armour	24	Telekomservisas ( Lituania)	Lithuania	6,7	2003	EUR	
Double armour	16	JOANNOU AND PARASKEVAIDES	Libya	10,7	2003	AFR	
Single armour	12	UTE	Mauritania	105,9	2003	AFR	
Single armour	36	SIEMENS	Mexico	83	2003	AME	
Single armour	36	Techint (Saltillo)	Mexico	134,2	2003	AME	
Single armour	36	CYMI	Mexico	234	2003	AME	
Single armour	36	ABB- MEXICO	Mexico	88,8	2003	AME	
Double armour	36	ABB- MEXICO	Mexico	16,6	2003	AME	
Single armour	36	ISOLUX WAT	Mexico	51,8	2003	AME	
Single armour	36	ELECNOR	Mexico	31,5	2003	AME	
Single armour	12	Techint (Altamira II, III y IV ;	Mexico	4	2003	AME	
Single armour	36	ABENGOA MEXICO	Mexico	78,6	2003	AME	
Single armour	12	SIEMENS	Mexico	11,9	2003	AME	
Single armour	36	Techint (Moreno Torres)	Mexico	2,9	2003	AME	
Single armour	12	IBERDROLA	Mexico	103,7	2003	AME	
Single armour	12	NT WORK	Mexico	97	2003	AME	
Single armour	36	CFE	Mexico	173,6	2003	AME	
Single armour	36	ISOLUX WAT	Mexico	228	2003	AME	
Single armour	12	ISOLUX WAT- ENSENADA	Mexico	52,8	2003	EUR	
Single armour	24	ABB- NIGERIA	Nigeria	64	2003	AFR	
Single armour	24	PIRELLI U.K.	Noruega	6,4	2003	EUR	
Double armour	24	National Contracting	Qatar	1,9	2003	ME	
Double armour	24	VOLTAGE ENGINEERING LTD	Qatar	128	2003	ME	
Single armour	24	NATIONAL CONTRACTING	Qatar	13,8	2003	FEA	
Single armour	24	INTRAROM	Romania	110,5	2003	EUR	
Single armour	16	SYRIAN CO. FOR OIL TRANSP.	Syria	109	2003	ME	
Single armour	16	PEEGT	Syria	280,5	2003	ME	
Single armour	80	IBERDROLA	Spain	60	2003	EUR	G655
Double armour	18	THAI SOTO ENGINEERING	Taiwan	56	2003	FEA	
Double armour	10	EMTAMITAS	Turkey	225	2003	ME	G655
Double armour	10	BALFOUR BEATTY(PIRELLI U.K.)	Turkey	92	2003	EUR	G655
Single armour	32	KEC INTERNATIONAL	U.A.E	219,5	2003	ME	
Single armour	144	PIRELLI U.S.A.	USA	25,5	2003	AME	
Single armour	24	PIRELLI USA	USA	4	2003	AME	
Single armour	36	AMSA	USA	1,5	2003	AME	
Single armour	24	Public Enterprise Serbia (ex Slebos)	Yugoslavia	11	2003	EUR	
Single armour	36	ELETRONORTE OPGW 36FO para LT 500 KV Tu	Brasil	267	2004	AME	
Single armour	36	ELETRONORTE LT 500KV Imperatriz / Tucurui y	Brasil	344	2004	AME	
Single armour	12	CTEEP OPGW 12FO para LT's en el estado de S	Brasil	600	2004	AME	
Single armour	6	CACHOEIRA PAULISTA LT 500 KV Tijuco Preto	Brasil	190	2004	AME	
Single armour	12	SUL TRANSMISSORA DE ENERGIA LT 500 KV U	Brasil	410	2004	AME	
Single armour	24	INTESAR S.A.	Argentina	375	2004	AME	
Single armour	48	TRANSELECTRIC	Ecuador	36	2004	AME	
armadura sencilla	24	PIRELLI USA - ENTERGY	USA	75,68	2004	AME	
armadura sencilla	24	PIRELLI USA - SCANA	USA	22,56	2004	AME	
armadura sencilla	12	SIEMENS - CODENSA	Colombia	14,9	2004	AME	
armadura sencilla	24	ALUBAR LT 230KV PRES. MEDICI - PELOTAS 3	Brasil	133	2004	AME	
armadura sencilla	12	ATE LT 500KV LONDRINA - ASSIS - ARARAQUA	Brasil	390	2004	AME	
armadura sencilla	24	ELETRONORTE LT 230KV RONDONOPOLIS - B	Brasil	235	2004	AME	
armadura sencilla	36	ELETRONORTE LT 230KV VILA DO CONDE - SA	Brasil	163	2004	AME	
Single armour	36	Transelectrica (INABENSA)	Romania	1.722,50	2004	EUR	G655
Single armour	90	IBERDROLA	Spain	6,0	2004	EUR	G655
Single armour	24	IBERDROLA	Spain	220,0	2004	EUR	G655
Single armour	48	REE	Spain	30,0	2004	EUR	G655
Single armour	24	REE	Spain	142,0	2004	EUR	G655
Single armour	12	EVN-VIETNAM VITRO-SON-LA	Vietnam	118,6	2004	FEA	G655
Single armour	12	EVN-VIETNAM DOC SOI	Vietnam	319,8	2004	FEA	G655
Single armour	12	ELECTRICITY OF VIETNAM	Vietnam	7,7	2004	FEA	G655
Single armour	12	THE CENTRAL VIETNAM -HATING	Vietnam	432,9	2004	FEA	G655
Single armour	12	SUN IVY	Vietnam	46,2	2004	FEA	G655
Double armour	32	KEC INTERNATIONAL	U.A.E	60,8	2004	ME	
Single armour	24	EK TRADING	Algeria	43	2004	AFR	
Single armour	24	TCIL INDIA (Alger)	Algeria	1507,6	2004	AFR	
Double armour	24	KEC INTERNATIONAL	Algeria	104,7	2004	AFR	
Single armour	24	VA TECH	Algeria	30,4	2004	AFR	
Single armour	24	ABB POWER TECHNOLOGIES	Algeria	46,9	2004	AFR	
Double armour	24	INEO	Algeria	80,3	2004	AFR	
Single armour	18	PIRELLI USA	USA	1,5	2004	AME	
Single armour	32	PIRELLI USA	USA	4,2	2004	AME	
Single armour	12	PIRELLI USA	USA	2,4	2004	AME	
Single armour	144	PIRELLI USA	USA	10,2	2004	AME	
Single armour	24	PIRELLI AUSTRALIA	Australia	12,3	2004	FEA	
Double armour	24	PIRELLI ALEMANIA	Checoslovaquia	5	2004	EUR	

**OPGW REFERENCES**

OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Double armour	48	PIRELLI ALEMANIA	Checoslovaquia	5	2004	EUR	
Single armour	24	CETIC -DAMALU	China	234,1	2004	FEA	
Single armour	36	CETIC -DAMALU	China	99,7	2004	FEA	
Single armour	36	CHINA POWER COMPL EQUIP	China	6	2004	FEA	
Single armour	12	PIRELLI WUXI	China	1,7	2004	FEA	
Single armour	8	TOO "ASPMK-519"	Kazakhstan	4	2004	EUR	
Single armour	18	TOO "ASPMK-519"	Kazakhstan	10,5	2004	EUR	
Single armour	10	ELECTROIMPEX	Kazakhstan	1,8	2004	EUR	
Single armour	12	ELECTROIMPEX	Kazakhstan	25,8	2004	EUR	
Single armour	24	ELECTROIMPEX	Kazakhstan	10,8	2004	EUR	
Single armour	24	KEC INTERNATIONAL	Kenya	1,7	2004	AFR	
Single armour	24	KEC INTERNATIONAL	Libya	929	2004	AFR	
Single armour	24	SERVICE MASTER	Malaysia	260,2	2004	FEA	
Single armour	24	FUJIKURA	Malaysia	9,5	2004	FEA	
Single armour	12	CONDUMEX	Mexico	17	2004	AME	
Single armour	36	ISOLUX WAT	Mexico	450,1	2004	AME	
Single armour	36	SKANSKA	Mexico	5	2004	AME	
Single armour	36	ALSTOM	Mexico	7,3	2004	AME	
Single armour	36	WILLIAMS Y TRANCREDI	Mexico	6,3	2004	AME	
Single armour	24	IBERDROLA	Mexico	1,3	2004	AME	
Single armour	36	EDEMTEC	Mexico	89,3	2004	AME	
Single armour	36	TECHINT	Mexico	698,8	2004	AME	
Single armour	36	CYMI	Mexico	79,1	2004	AME	
Single armour	36	AMSA	Mexico	11,9	2004	AME	
Single armour	36	SIEMENS	Mexico	106,9	2004	AME	
Single armour	24	SIEMENS	Mexico	3,5	2004	AME	
Single armour	12	SIEMENS	Mexico	5	2004	AME	
Single armour	12	MAGDIEL	Mexico	64,8	2004	AME	
Single armour	12	GEODIS UK	Pakistan	86,3	2004	FEA	
Single armour	12	PNG POWER	Papua New Guinea	7	2004	AFR	
Single armour	24	NATIONAL CONTRACTING	Qatar	184,5	2004	ME	
Single armour	8	OOO"DONOPTORG"	Rusia	5,4	2004	EUR	
Single armour	12	ASAS CONTRACTING	KSA	46,4	2004	ME	
Single armour	12	ASAS CONTRACTING	KSA	5	2004	ME	
Single armour	12	SAUDI ELECTRICITY COMPANY	KSA	6,4	2004	ME	
Single armour	24	ACES	KSA	30,9	2004	ME	
Single armour	16	SCOT	Syria	142,7	2004	ME	
Single armour	48	AMARA	Spain	33,0	2004	EUR	
Single armour	24	ELECNOR	Spain	14,0	2004	EUR	
Single armour	48	ENDESA	Spain	138,0	2004	EUR	
Single armour	24	ENDESA	Spain	10,0	2004	EUR	
Single armour	12	ENDESA	Spain	32,0	2004	EUR	
Single armour	12	SEIT	Spain	17,5	2004	EUR	
Single armour	48	UTE-TARIFA	Spain	16,4	2004	EUR	
Single armour	16	PEEGT	Syria	327,9	2004	ME	
Double armour	4	EMTAMITAS	Turkey	81,4	2004	EUR	
Single armour	12	EMIRATES TRADING AGENCY	U.A.E	64,4	2004	ME	
Double armour	24	CENTAUR	U.A.E	2,4	2004	ME	
Single armour	32	FEWA	U.A.E	72,9	2004	ME	
Single armour	32	LARSEN & TOURBO	U.A.E	73,3	2004	ME	
Single armour	16	LARSEN & TOURBO	U.A.E	47	2004	ME	
Single armour	32	KEC INTERNATIONAL	U.A.E	57,2	2004	ME	
Double armour	10	PIRELLI U.K.	UK	36	2004	EUR	
Single armour	24	KALPATARU	Zambia	205,9	2004	AFR	
Single armour	24	B. BOSCH S.A.	Chile	70,33	2005	AME	
Single armour	12	HIDROPAUTE	Equador	14	2005	AME	
Single armour	36	ELETRONORTE LT 230kV JI-PARANA - PIMENTA	Brasil	285	2005	AME	
Single armour	24	CEEE LT'S ROTA SUL	Brasil	325	2005	AME	
Single armour	24	PROCABLE LT UHE DONA FRANCISCA	Brasil	30	2005	AME	
Single armour	4	RIALMA LT PCH SANTA EDWIGES II	Brasil	35	2005	AME	
Single armour	24	ADMINISTRACION NACIONAL DE ELECTRICIDAD	Paraguay	222,5	2005	AME	
Single armour	24	SIEMENS S.A.	Argentina	10	2005	AME	
Single armour	48	TRANSELECTRIC	Equador	11	2005	AME	
Single armour	12	PAN AMERICAN ENERGY	Argentina	36	2005	AME	
Single armour	12	ADMINISTRACION NACIONAL DE USINAS Y TR	Uruguay	17	2005	AME	
Single armour	12	ENERPETROL / HIDROPAUTE	Equador	8,5	2005	AME	
Single armour	48	COBRA PERU S.A.	Equador	390	2005	AME	
Single armour	6	CABELUX - LT 500kV TUCURUI - VILA DO CONI	Brasil	325	2005	AME	
Single armour	12	CABELUX - LT 500kV CUIABA - ITUMBIARA	Brasil	811	2005	AME	
Single armour	12	ABENGOA - LT 500kV COLINAS - SOBRADINHO	Brasil	964	2005	AME	
Single armour	24	FURNAS / EMBRATEL - LT 230kV RIO VERDE -	Brasil	250	2005	AME	
Single armour	36	NATIONAL CONTRACTING	KSA	284,6	2005	ME	G655
Single armour	24	NATIONAL CONTRACTING	KSA	163,2	2005	ME	G655
Single armour	24	ABB TECHNOLOGIES	Algeria	25,9	2005	AFR	
Single armour	48	VA TECH	Algeria	3,2	2005	AFR	

**OPGW REFERENCES**

OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	24	VA TECH	Algeria	35,7	2005	AFR	
Single armour	24	HIDELECO	Algeria	15,5	2005	AFR	
Double armour	24	KEC INTERNATIONAL	Algeria	81,1	2005	AFR	
Single armour	24	TCIL	Algeria	771,7	2005	AFR	
Single armour	24	INEO	Algeria	160,5	2005	AFR	
Single armour	12	PIRELLI AUSTRALIA	Australia	59,6	2005	FEA	
Single armour	24	PIRELLI AUSTRALIA	Australia	6,9	2005	FEA	
Single armour	36	PIRELLI AUSTRALIA	Australia	3	2005	FEA	
Single armour	24	SOCIETE IVOIRIENNE DE CABLES	Cote d'Ivoire	2,5	2005	AFR	
Single armour	8	FUTURE OPTIC SYSTEMS	Equador	10,2	2005	AME	
Single armour	12	JOYTI STRUCTURES	ETHIOPIA	320,8	2005	AFR	
Single armour	12	KEC INTERNATIONAL	ETHIOPIA	79,4	2005	AFR	
Single armour	12	PIRELLI INDONESIA	Indonesia	33,5	2005	FEA	
Single armour	24	TOO "ASPMK-519"	Kazakhstan	16,6	2005	EUR	
Single armour	12	TOO "ASPMK-519"	Kazakhstan	181,7	2005	EUR	
Single armour	12	ELEKTRA COMPLETE	Kazakhstan	10,6	2005	EUR	
Single armour	24	ASAS CONTRACTING	KSA	77,1	2005	ME	
Single armour	24	LG INTERNATIONAL (SAUDI ELEC.CO.)	KSA	63,3	2005	ME	
Single armour	36	SIEMENS	Mexico	48,8	2005	AME	
Single armour	36	TECHINT	Mexico	64,2	2005	AME	
Single armour	36	IBERDROLA	Mexico	352,7	2005	AME	
Single armour	48	IBERDROLA	Mexico	0,6	2005	AME	
Single armour	24	IBERDROLA	Mexico	12,3	2005	AME	
Single armour	12	IBERDROLA	Mexico	34	2005	AME	
Single armour	36	ISOLUX	Mexico	51,5	2005	AME	
Single armour	36	MAGDIEL	Mexico	91,4	2005	AME	
Single armour	12	MAGDIEL	Mexico	20,5	2005	AME	
Single armour	36	EDEMTEC	Mexico	361,6	2005	AME	
Single armour	36	CYMI	Mexico	12	2005	AME	
Single armour	36	AMSA	Mexico	184,1	2005	AME	
Single armour	36	ABB MEXICO	Mexico	14,8	2005	AME	
Single armour	24	KEC INTERNATIONAL	OMAN	152,3	2005	ME	
Single armour	12	ICC	Pakistan	109,4	2005	FEA	
Single armour	36	ELECTROMONTAJ	ROMANIA	16	2005	EUR	
Single armour	16	PROKOM	Rusia	14,7	2005	EUR	
Single armour	12	OOO VELCOM INTERNATIONAL	Rusia	2,8	2005	EUR	
Single armour	12	NATIONAL CONTRACTING	KSA	5,3	2005	ME	
Single armour	24	NATIONAL CONTRACTING	KSA	48,4	2005	ME	
Single armour	36	NATIONAL CONTRACTING	KSA	46,4	2005	ME	
Single armour	24	SAUDI ELECTRICITY COMPANY	KSA	10,1	2005	ME	
Single armour	16	PEEGT	Syria	4,5	2005	ME	
Double armour	10	MITAS	Turkey	42,9	2005	EUR	
Double armour	10	PIRELLI TELECOM U.K.	Turkey	8,4	2005	EUR	
Double armour	10	GALKON	Turkey	165	2005	EUR	
Single armour	10	EMTA	Turkey	8,5	2005	EUR	
Double armour	32	CIVIL CONTRACTING	U.A.E	18,2	2005	ME	
Double armour	32	FEWA	U.A.E	104,9	2005	ME	
Double armour	32	LARSEN & TOUBRO	U.A.E	10,4	2005	ME	
Double armour	24	LARSEN & TOUBRO	U.A.E	74,8	2005	ME	
Double armour	32	EMIRATES TRADING AGENCY (ETA)	U.A.E	75,4	2005	ME	
Double armour	32	KEC INTERNATIONAL ADWEA	U.A.E	342,7	2005	ME	
Double armour	32	HYUNDAI	U.A.E	98	2005	ME	
Single armour	28	OULTON VENTURES	UK	138,6	2005	FEA	
Single armour	24	PIRELLI U.S.A.	USA	334,3	2005	AME	
Single armour	12	PIRELLI U.S.A.	USA	19,5	2005	AME	
Single armour	48	PIRELLI U.S.A.	USA	6,1	2005	AME	
Single armour	36	PIRELLI U.S.A.	USA	15	2005	AME	
Single armour	48	PIRELLI WUXI	Xina	4	2005	FEA	
Single armour	36	PIRELLI WUXI	Xina	1,9	2005	FEA	
Single armour	24	GAMESA ENERGIA	Spain	69,6	2005	EUR	
Single armour	24	PRODUCTOS ELECTRICOS INDUSTRIALES	Spain	67	2005	EUR	
Single armour	48	ADITEL	Spain	10	2005	EUR	
Single armour	48	ENDESA DISTRIBUCIÓN ELECTRICA	Spain	165	2005	EUR	
Single armour	12	REE	Spain	62	2005	EUR	
Single armour	24	REE	Spain	375	2005	EUR	
Single armour	48	REE	Spain	93	2005	EUR	
Single armour	96	REE	Spain	27	2005	EUR	
Single armour	48	IBERDROLA SA	Spain	204,9	2005	EUR	
Single armour	24	IBERDROLA INGENIERIA Y CONSTRUCCION	Spain	163,9	2005	EUR	
Single armour	36	IBERDROLA SA	Spain	34,7	2005	EUR	
Single armour	12	IBERDROLA SA	Spain	6,8	2005	EUR	
Single armour	24	MOHAN EXPORTS INDIA	Sudan	176,4	2005	AFR	
Single armour	48	SINTER	Nicaragua	3,2	2005	AME	
Single armour	10	KAR-PA	Turkey	8,3	2005	EUR	
Single armour	40	UAB TELEKOMSERVISAS	Lithuania	3,4	2005	EUR	

### OPGW REFERENCES

OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	24	ELECTROLUZ	Argentina	7,4	2006	AME	
Single armour	12	ALUSA - YPF	Argentina	150	2006	AME	
Single armour	24	TEYMA Abengoa LT 500kV San Juan Mendoza	Argentina	190	2006	AME	
Single armour	12	UTE - Techint Los Caracoles	Argentina	52,8	2006	AME	
Single armour	12	UTE - Administración de Usinas y Trasmisiones	Uruguay	60	2006	AME	
Single armour	24	SCHAHIN - UTE	Uruguay	22	2006	AME	
Single armour	32	KEC INTERNATIONAL LTD	U.A.E	200	2006	ME	
Double armour	24	INEO INTERNATIONAL	Algeria	47,7	2006	AFR	
Single armour	24	KEC INTERNATIONAL LTD	Oman	49,7	2006	ME	
Single armour	36	ABB MEXICO	Mexico	51,2	2006	AME	
Double armour	18	SAE POWER LINES	Ghana	160,3	2006	AFR	
Single armour	36	PIRELLI WUXI	China	11,4	2006	FEA	
Single armour	18	PIRELLI WUXI	China	3	2006	FEA	
Single armour	24	PRYSMIAN AUSTRALIA	Australia	2	2006	FEA	
Single armour	48	PRYSMIAN AUSTRALIA	Australia	14,6	2006	FEA	
Single armour	24	PIVOT ENGINEERING (Crest Investments)	Nigeria	54,4	2006	AFR	
Single armour	36	SIEMENS MEXICO	Mexico	80,5	2006	AME	
Single armour	24	SIEMENS MEXICO	Mexico	7,3	2006	AME	
Single armour	48	SIEMENS MEXICO	Mexico	2	2006	AME	
Single armour	24	MOHAN EXPORTS INDIA	Sudan	39,6	2006	AFR	
Single armour	36	ISOLUX MEXICO	Mexico	219,3	2006	AME	
Single armour	12	KEC INTERNATIONAL	Ethiopia	9,7	2006	AFR	
Single armour	24	CONSORCIO ITALIA	Italy	101,8	2006	EUR	
Single armour	24	FUJIKURA	Malaysia	162,9	2006	FEA	
Single armour	24	KEC INTERNATIONAL	Oman	66,1	2006	ME	
Single armour	36	ABENGOA	Mexico	798,4	2006	AME	
Single armour	36	ISOLUX	Mexico	942,5	2006	AME	
Single armour	36	TECHINT	Mexico	951,2	2006	AME	
Single armour	32	CIVIL CONTRACTING	U.A.E.	17,1	2006	ME	
Single armour	36	IBERDROLA	Mexico	110,6	2006	AME	
Single armour	12	PRYSMIAN POWER CABLES AND SYSTEMS	USA	10,7	2006	AME	
Single armour	24	PRYSMIAN POWER CABLES AND SYSTEMS	USA	55	2006	AME	
Single armour	48	PRYSMIAN POWER CABLES AND SYSTEMS	USA	4,9	2006	AME	
Single armour	96	PRYSMIAN POWER CABLES AND SYSTEMS	USA	11	2006	AME	
Single armour	16	ELECTROMONTAJ SA	U.A.E.	123,3	2006	ME	
Single armour	24	REE	Spain	348	2006	EUR	
Single armour	48	REE	Spain	217	2006	EUR	
Single armour	96	REE	Spain	48	2006	EUR	
Single armour	24	IBERDROLA SA	Spain	68	2006	EUR	
Single armour	48	IBERDROLA SA	Spain	46	2006	EUR	
Single armour	24	IBERINCO	Spain	239	2006	EUR	
Single armour	24	SIMELSA	Spain	47	2006	EUR	
Single armour	24	SOCOIN	Spain	7	2006	EUR	
Single armour	48	MAESA	Spain	15	2006	EUR	
Single armour	24	GAMESA ENERGIA	Spain	17	2006	EUR	
Single armour	24	AMARA	Spain	30	2006	EUR	
Single armour	24	COBRA	Spain	37	2006	EUR	
Single armour	24	TCIL INDIA (Alger)	Algeria	68	2006	AFR	
Double armour	40	AUDIONICA	Portugal	96,6	2006	EUR	
Single armour	36	GROSE Ingenieros	Mexico	3,3	2006	AME	
Double armour	144	PRYSMIAN -Switzerland	Switzerland	22,5	2006	EUR	
Single armour	24	KEC INTERNATIONAL	Kuwait	14,9	2006	ME	
Double armour	24	Handling &Tracking	Italy	112,5	2006	EUR	
Single armour	32	LARSEN & TOUBRO	U.A.E.	14,6	2006	ME	
Single armour	12	TOO "ASPMK-519"	Kazakhstan	130,9	2006	EUR	
Single armour	24	SAE POWER LINES	Nigeria	62,5	2006	AFR	
Single armour	36	EDEMTEC	Mexico	28,5	2006	AME	
Single armour	12	MOHAMMED AL OJAIMI	KSA	8,2	2006	ME	
Double armour	10	TEIAS General Direct of Turkish Trans Corp	Turkey	68,3	2006	EUR	
Double armour	24	KALPATARU	Algeria	143	2006	AFR	
Single armour	48	KALPATARU	Algeria	73,9	2006	AFR	
Single armour	36	CIECSA	Mexico	25	2006	AME	
Single armour	12	BRANCH OF CORP. ELEKTRACOMPLETE	Kazakhstan	22,9	2006	EUR	
Single armour	36	NATIONAL CONTRACTING	KSA	47	2006	ME	
Single armour	8	HYUNDAI	Yemen	131,7	2006	AFR	
Single armour	10	TOO "KAZELECTROENGINEERING"	Kazakhstan	3,7	2006	EUR	
Single armour	12	TOO"ASPMK-519"	Kazakhstan	155	2006	EUR	
Single armour	24	JYOTI STRUCTURES LTD	Tunez	227,7	2006	AFR	
Single armour	24	THE LTD LIABILITY CO. PROKOM	Rusia	7	2006	EUR	
Single armour	36	FELIX POY	Mexico	3,1	2006	AME	
Single armour	24	ISOLUX INGENIERIA	Mozambique	12	2006	AFR	
Double armour	24	EMIRATES TRADING AGENCY	U.A.E.	32	2006	ME	
Double armour	32	EMIRATES TRADING AGENCY	U.A.E.	4,7	2006	ME	
Single armour	12	TOO ELEKTROCABEL	Kazakhstan	2,9	2006	EUR	
Single armour	32	EMIRATES ELECTRICAL ENGINEERING	U.A.E	103,5	2006	ME	

**OPGW REFERENCES**

OPGW Type	Nº fibers	Customer	Country	KM	Year	Region	Fibre Type
Single armour	36	CARLOS ALBERTO TORRES	Mexico	7	2006	AME	
Single armour	32	KEC INTERNATIONAL	U.A.E.	19	2006	ME	
Single armour	32	MASIRAH ELECTRICAL MATERIALS (CIVILC	U.A.E.	41,3	2006	ME	
Single armour	12	TOO "CORPORATION ELECTRA"	Kazakhstan	6,8	2006	EUR	
Single armour	36	CFE	Mexico	152,6	2006	AME	
Single armour	24	TELEMIG telf: 31. 3259.3077 / 3259.3076	Brasil	5,8	1994	AME	
Single armour	24	ELETRIPAULO	Brasil	9	1994	AME	
Single armour	24	ELETRONORTE	Brasil	300	1997	AME	
Single armour	6	COBELUX - LT 500kV TUCURUI - VILA DO CON	Brasil	325	2005	AME	
Single armour	12	COBELUX - LT 500kV CUIABA - ITUMBIARA	Brasil	811	2005	AME	
Single armour	24	Eletronorte LT 138kV Rio Branco/Epitacilandia U	Brasil	400	2006	AME	
Single armour	12	COBELUX - LT 500kV Serra da Mesa / Emborcad	Brasil	690	2006	AME	
Single armour	24	CYMI LT 230kV Gravataí / Porto Alegre	Brasil	20	2006	AME	
Single armour	24	FURNAS Embratel LT 230kV Manso / Nobres	Brasil	20	2006	AME	
Single armour	24	FURNAS Embratel LT 230kV Brasília / Corumbá	Brasil	270	2006	AME	
Single armour	24	ELETRONORTE Embratel LT 230kV Caxipó /	Brasil	460	2006	AME	
Single armour	36	ELETRONORTE Embratel LT 230kV Porto Vell	Brasil	370	2006	AME	
Single armour	24	ELETRONORTE Embratel LT 230kV Rondonóp	Brasil	185	2006	AME	
Single armour	24	PRYSMIAN POWER CABLES AND SYSTEMS	USA	20	2007	AME	
Single armour	48	PRYSMIAN POWER CABLES AND SYSTEMS	USA	7,9	2007	AME	
Single armour	288	PRYSMIAN POWER CABLES AND SYSTEMS	USA	5,7	2007	AME	
Double armour	24	ELECNOR	Algeria	102	2007	AFR	
Double armour	24	GROUPEMENT COBRA-INABENSA	Algeria	55,6	2007	AFR	
Double armour	24	SAXON ENERGY	Sudan	4,3	2007	AFR	
Single armour	24	FUJIKURA	Malaysia	31,8	2007	FEA	
Double armour	24	KALPATARU	Algeria	32,2	2007	AFR	
Single armour	32	LARSEN & TOUBRO	U.A.E.	56,9	2007	ME	
<b>TOTAL KM</b>		Note: updated 08/02/09 up to Jan' 07		<b>100723</b>	<b>kms</b>		