



ZITRON TUNNEL REFERENCES - (TEMPORARY VENTILATION DURING EXCAVATION)

No.	Project	Length (m)	Fan type	Qty	Total Power (kW)	Country	Year
1	TUNELES DE BRAZATORTAS (AVE)	2200	ZVN 1-14-90/4	8	720	SPAIN	1987
2	TÚNELES DE EL PADRÚN	3700	ZVN 1-12-55/4	8	440	SPAIN	1989
3	TÚNELES DEL EMBALSE DE LA VIÑUELA	22000	gEL 7-22	16	352	SPAIN	1989
4	TÚNELES DE ALCAVANERAS	1400	ZVN 1-12-37/4	2	74	SPAIN	1990
5	TÚNELES DE CIRCUNVALACION MARBELLA	1200	ZVN 1-12-37/4	2	74	SPAIN	1991
6	TUNEL DE SOLLER	3000	ZVN 1-14-90/4	4	360	SPAIN	1993
7	ACCESO MINA SALIENT	2000	gEL 9-30	3	180	SPAIN	1993
8	TÚNELES DE BELABIETA	4000	ZVN 1-12-75/4	2	150	SPAIN	1993
9	GALERIA DE ALMAGRERA	2300	ZVN 1-14-132/4	2	264	SPAIN	1993
10	TUNEL TRASVASE RIO GRANDE	3000	gEL 7-22	6	132	SPAIN	1993
11	TÚNELES DE BIAÑA	2600	ZVN 1-12-45/4	4	180	SPAIN	1994
12	TUNEL DE BELATE	2900	ZVN 1-12-75/4	6	450	SPAIN	1994
13	TUNELES DE PAPERS	4000	ZVN 1-12-45/4 +ZVN 1-14-37/4	6	254	SPAIN	1994
14	TUNEL PASILLO VERDE	2000	gEL 9-45	1	45	SPAIN	1994
15	TÚNEL DE SOMPORT	8500	ZVN 1-23-200/6	1	274	SPAIN	1994
16	TUNELES DE LA CAÑIZA	5000	ZVN 1-12-55/4	7	385	SPAIN	1995
17	GALERIA MINERA HULLERA VASCO LEONESA	17000	gEL 5-... + gEL 6-... + gEL 7-... + gEL 8-...	28	550	SPAIN	1995
18	PRESA AMORIN	4800	ZVN 1-14-75/4	4	300	SPAIN	1995
19	GALERIA CONDUCCIÓN DE AGUA TRASVASUR	2200	gEL 6-30G	2	60	SPAIN	1995
20	PRESA FOZ - COA	700	ZVN 1-12-75/4	2	150	SPAIN	1995
21	PRESA RICOBAYO	1800	ZVN 1-12-75/4	2	120	SPAIN	1995



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22	TÚNEL DEL NEGRON - 2ª FASE	4155	ZVN 1-12-45/4	2	90	SPAIN	1995
23	TÚNELES FERROVIARIOS	3300	ZVN 1-12-75/4	4	300	SPAIN	1995
24	TÚNELES DE LA CANDA Y PADORNELO	2800	ZVN 1-12-75/4	4	300	SPAIN	1996
25	TUNEL JOAO XXI	900	ZVN 1-12-37/4	1	37	SPAIN	1996
26	TUNEL CARRETERO		gEL 9-45/2	1	45	SPAIN	1996
27	PRESSE OUED BARBARA	5700	gEL 7-74G	2	148	SPAIN	1996
28	GALERIAS DE CONDUCCION	7000	gEL 7-30	2	176	SPAIN	1996
29	ROAD TUNNELS	10000	ZVN 1-14-103/4	2	206	SPAIN	1997
30	PRESA ALQUEVA	1100	gEL 6-15	2	30	SPAIN	1997
31	TÚNEL HIDRAULICO BREÑA ALTA	10000	gEL 6-30	8	240	SPAIN	1997
32	TUNNEL IN TEHRAN	2800	gEL 9-45	2	90	SPAIN	1997
33	PRESA DE ANGOSTURA	7000	ZVN 1-14-125/4 + gEL 7-41 + gEL 9-55	16	1470	SPAIN	1997
34	AMPLIACION LINEA 9 METRO	1400	ZVN 1-14-90/4	1	90	SPAIN	1997
35	PRESA SAN GABÁN	6000	gEL 9-63	4	256	SPAIN	1997
36	TÚNELES DE LATORES	500	ZVN 1-12-75/4	2	150	SPAIN	1997
37	TUNELES DE MARIÑAN	3200	ZVN 1-12-55/4	4	220	SPAIN	1997
38	TUNEL DE LA HECHICERA	1500	ZVN 1-12-75/4	2	150	SPAIN	1997
39	ISLANHABAB TUNNEL	900	gEL 9-45	1	45	SPAIN	1998
40	TUNEL DE ENCUMEADA	3000	ZVN 1-12-75/4	2	150	SPAIN	1998
41	SABIR TUNNEL	5400	ZVN 1-14-90/4	5	450	SPAIN	1998
42	TUNEL DE BUENAVISTA	5000	ZVN 1-14-126/4	3	378	SPAIN	1998



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No.	Project	Length (m)	Fan type	Qty	Total Power (kW)	Country	Year
43	ATHENS PIRAEUS ELECTRIC RAILWAY	3000	ZVN 1-12-75/4	2	150	SPAIN	1998
44	CHAMERA HYDROELECTRIC PROJECT	14000	ZVN 1-14-110/4	9	990	SPAIN	1999
45	TUNELES DE RIOSECO	1100	ZVN 1-12-37/4	2	74	SPAIN	1999
46	GALERIA METRO	800	ZVN 1-12-45/4	1	45	SPAIN	1999
47	TUNELES DE ANCHUELO-MEJORADA LAV	1100	ZVN 1-12-37/4	3	111	SPAIN	1999
48	TUNELES DE EL FABAR, TEZANGOS Y LLOVIO	6000	ZVN 1-12-45/4	4	180	SPAIN	1999
49	TUNELES DE FABARES	5000	ZVN 1-12-75/4	2	150	SPAIN	1999
50	TÚNELES DE ARTXANDA	3600	ZVN 1-12-75/4	4	300	SPAIN	1999
51	TUNELES DE LA AUTOVIA EIBAR - VITORIA	8800	ZVN 1-12-75/4	6	450	SPAIN	1999
52	TUNELES DE SANTIRSO	900	ZVN 1-12-45/4	2	90	SPAIN	2000
53	KIGI HYDROELECTRIC PROJECT	2600	ZVN 1-12-45/4	4	180	TURKEY	2000
54	SANKT GOTTHARD TUNNEL (FAIDO & BODIO)	37000	ZVN 1-18-315/4+ZVN 1-22-800/6+ZVN 1-18-250/4+ZVN 1-16-132/4+ZVN 1-14-75/4+ZVN 1-12-75/4+gEL 9-37	46	5880	SWITZERLAND	2001
55	SANKT GOTTHARD TUNNEL (ACCESS TO FAIDO)	2700	ZVN 1-16-132/4	4	528	SWITZERLAND	2001
56	TÚNEL DE ENVALIRA	2800	ZVN 1-14-90/4	4	360	ANDORRA	2001
57	GHATKOPAR TUNNEL	2750	gEL 7-74 G	2	148	INDIA	2001
58	PRESA VENDA NOVA	7000	ZVN 1-18-132/4 + ZVN 1-12-75/4	4	414	PORTUGAL	2001
59	KALIDROMO TUNNELS	9000	ZVN 1-16-110/4	4	440	GREECE	2001
60	DHAULIGANGA HYDROELECTRIC PROJECT	8300	ZVN 1-16-132/4 + ZVN 1-16-75/4 + ZVN 1-14-75/4	5	489	INDIA	2001
61	AUTOSTRADA NESSINA PALERMO	3700	ZVN 1-16-75/4	4	300	ITALY	2001
62	DIYOJEN TUNNELS	2400	ZVN 1-14-110/4	2	220	TURKEY	2001
63	TEESTA HYDROELECTRIC PROJECT	5400	ZVN 1-14-110/4 + gEL 9-75	11	1105	INDIA	2001



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64	DULHASTI HYDROELECTRIC PROJECT	6500	ZVN 1-16-110/4	4	440	INDIA	2001
65	LOTSHBERG TUNNEL (FERDEN)	26500	ZEL 1-14-75/4 + ZEL 1-14-90/4 + ZEL 1-18-160/4 + ZEL 1-18-250/4 + ZEL 1-24-630/6	15	3130	SWITZERLAND	2001
66	L'IMPIANTO IDROELETTRICO DI PONT VENTOUX	3700	gEL 7-37+gEL 9-75+ZVN 1-12-55/4+ZVN 1-14-45/4+ZVN 1-14-75/4	14	842	ITALY	2001
67	TÚNELES METRO DE SESTAO	1600	ZVN 1-12-75/4	4	300	SPAIN	2002
68	TÚNEL SANTA MARIA DE LA CABEZA	800	ZVN 1-12-37/4	1	37	SPAIN	2002
69	TÚNEL EL MUSEL	1000	gEL 9-37+ZVN 1-12-37/4	1	37	SPAIN	2002
70	TÚNEL DE SARTEGO	2200	ZVN 1-12-45/4	2	90	SPAIN	2002
71	GALERIA DE LA PRESA DE RALCO	7200	ZVN 1-20-500/4	4	2000	CHILE	2002
72	TÚNELES DE GUADARRAMA SUR	30000	ZVN 1-18-315/4	6	1890	SPAIN	2002
73	TÚNELES DE BRAÑAVIELLA Y NIÉVARES	6200	ZVN 1-14-90/4 + ZVN 1-16-75/4	6	480	SPAIN	2002
74	TÚNELES DEL GEDO Y DEL PEDRERO	3600	ZVN 1-14-110/4	4	440	SPAIN	2002
75	KOUHRANG HYDRO POWER PLANT	20750	ZVN 1-12-55/4+ZVN 1-12-75/4+gEL 7-22+gEL 9-45+gEL 9-55+gEL 9-75	27	1679	SPAIN	2002
76	METRO PORTUGALETE	1150	ZVN 1-14-75/4	2	150	SPAIN	2003
77	TÚNELES DEL GATO, CALALOBOS Y CALACEITE	4060	ZVN 1-12-75/4	4	370	SPAIN	2003
78	AUTOSTRADA ASTI - CUNEO	800	ZVN 1-18-132/4	2	264	SPAIN	2003
79	CHANTIER DE SAINT MARTIN LA PORTE	2400	ZEL 1-14d-160/4	1	160	SPAIN	2003
80	SHA TIN HEIGHTS TUNNEL	2100	ZVN 1-16-110/4	2	220	SPAIN	2003
81	TÚNEL DE VIELHA	5100	ZVN 1-16-110/4 + ZVN 1-16-90/4	2	290	SPAIN	2003
82	TÚNEL DE LA RIA DE VILLAVICIOSA	960	gEL 6-11	2	22	SPAIN	2003
83	TÚNELES DE ÁLORA Y EL ESPARTAL	2850	ZVN 1-16-110/4	3	330	SPAIN	2003
84	TÚNEL DE ABDALAJIS	7100	ZVN 1-16-132/4	2	264	SPAIN	2003



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85	METRO LOS TEQUES	3000	ZVN 1-14-126/4	2	252	SPAIN	2003
86	PARBATI HYDRO-ELECTRIC PROJECT	22638	ZVN 1-14-75/4 + ZVN 1-14-90/4	5	435	SPAIN	2003
87	TÚNEL DE LANTAÑO	4000	ZVN 1-14-110/4	3	330	SPAIN	2003
88	TUNELES DE NEDURE	1800	ZVN 1-12-75/4 + ZVN 1-12-37/4	2	112	SPAIN	2003
89	METRO PORTUGALETE (TÚNELES SESTAO - PORTUGALETE)	2500	ZVN 1-14-90/4 + gEL 9-75	3	240	SPAIN	2003
90	TÚNEL DE IKASTUNDI	1590	ZVN 1-12-45/4	2	90	SPAIN	2003
91	TÚNEL AEROPUERTO BARAJAS	4000	ZVM 1-14-45/6	9	405	SPAIN	2003
92	TÚNEL DE VIELHA	3100	ZVN 1-16-132/4 + gEL 6-15	4	294	SPAIN	2004
93	TÚNEL DE PAJARES (LOTE 1)	2500	ZVN 1-16-132/4	2	264	SPAIN	2004
94	METRO OF ISFAHAN	2 X 4500	ZVN 1-14-110/4	4	440	SPAIN	2004
95	TÚNEL PUERTA DEL SOL		gEL 6-15 + gEL 9-37	4	104	SPAIN	2004
96	TUNEL DE SAN PEDRO	8500	ZVN 1-16-110/4	2	220	SPAIN	2004
97	METRONORTE	5500	gEL 9-30	1	30	SPAIN	2005
98	TÚNEL TRASVASE JUCAR - VINALOPÓ	6800	gEL 7-44G +gEL 7-60G	4	208	SPAIN	2005
99	TUNELES DE ARLABAN	2250	ZVN 1-16-132	4	528	SPAIN	2005
100	PROJET DE DÉRIVATION OUED CHIFFA	5800	gEL 9-75	8	600	SPAIN	2005
101	VARIANTE DI VALICO	55500	ZVN 1-18-132/4	1	132	SPAIN	2005
102	TÚNEL PARA METRONORTE	2000	ZVN 1-14-160/4	1	160	SPAIN	2005
103	CANAL DE NAVARRA	4000	gEL 9-75	2	150	SPAIN	2005
104	TÚNEL CHAMARTIN - NUEVOS MINISTERIOS	2500	ZVN 1-14-110/4	1	110	SPAIN	2005
105	TUNELES DE PAJARES LOTE 1	10400	ZVN 1-20-500/4	4	2000	SPAIN	2005



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106	EMISARION TERRESTRE	7000	gEL 7-44G	2	88	SPAIN	2005
107	METRONORTE	5500	ZVN 1-14-90/4	3	270	SPAIN	2005
108	UNIDAD SANTA BARBARA	1400	ZVN 1-14-42/4	2	84	SPAIN	2005
109	TÚNEL DE SOMACONCHA	1480	ZVN 1-14-90/4	2	180	SPAIN	2005
110	BY-PASS SUR TUNEL NORTE	3500	ZVN 1-18-160/4	2	360	SPAIN	2005
111	TUNELES DE PAJARES LOTE 2	9300	ZVN 1-20-560/4	2	1120	SPAIN	2005
112	PROLONGACION L7	640	ZVN 1-12-55/4	2	110	SPAIN	2005
113	GALLERIA IN MENAGGIO	1600	ZVN 1-18-250/4	1	250	SPAIN	2005
114	KIGI HYDROELECTRIC POWER PLANT	2600	ZVN 1-12-45/4	2	90	SPAIN	2005
115	GALLERIA ARIUNO - LECCO	348	ZVN 1-16-90/4	1	90	SPAIN	2005
116	COLECTOR CARTES - CALDAS DE BESAYA	2000	gEL 7-22	1	22	SPAIN	2005
117	TÚNEL DE ARLABÁN	3300	ZVN 1-16-75/4	2	150	SPAIN	2005
118	TUNEL DELS DOS VALIRES	2922	ZVN 1-18-200/4	4	800	SPAIN	2005
119	METRO BRESCIA	6000	ZVN 1-14-160/4	2	320	SPAIN	2005
120	ESTACION INTERMODAL PALMA DE MALLORCA		ZVN 1-16-90/4 + ZVN 1-14-90/4	2	180	SPAIN	2005
121	VENTILAZION G.A.	486	ZVN 1-12-45/4	2	90	SPAIN	2005
122	ISFAHAN METRO	2800	gEL 9-75	2	150	SPAIN	2005
123	PAJARES LOTE IV		ZVN 1-20-500/4	2	1000	SPAIN	2006
124	PROYECTO AGUA	21000	gEL 9-86	22	1892	SPAIN	2006
125	PROLONGACION LINEA METRO	800	ZVM 1-14-45/6	2	90	SPAIN	2006
126	PIR PANJAL, CHAMERA III, URI		ZVN 1-18-250/4; ZVN 1-16-160/4; ZVN 1-16-90/4; ZVN 1-16-75/4; ZVN 1-14-110/4; ZVN 1-14-90/4; ZVN 1-14-75/4 Y ZVN 1-14-55/4	19	2235	INDIA	2006



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No.	Project	Length (m)	Fan type	Qty	Total Power (kW)	Country	Year
127	GALERIAS CONEXIÓN EMBAJADORES - M40		gEL 6-7,5 + ZVN 1-12-45/4	11	157.5	SPAIN	2006
128	TUNEL DE CONTRERAS	2880	ZVN 1-16-132/4 + ZVN 1-14-110/4	3	424	SPAIN	2006
129	ANKARA METRO	2600	gEL 9-45	1	45	SPAIN	2006
130	TÚNEL DE BURATA Y TÚNEL DE FORMIGUEIRO (LAV)	4090+640	ZVN 1-16-110/ + gEL 9-45	3	265	SPAIN	2006
131	TRAMO III M-30		ZVN 1-16-110/4 + ZVN 1-14-110/4	8	880	SPAIN	2006
132	GALLERIA FERRIVIARIA CATANIA OGNINA - CATANIA CENTRALE	850	ZVN 1-12-55/4+ ZVN 1-14-90/4	2	145	SPAIN	2006
133	ESTAÇÃO DE S. SEBASTIAO (LINHA VERMELHA)		ZVM 1-14-45/6	1	45	SPAIN	2006
134	CANTIERE DI MEZZOLOMBARDO		ZVN 1-16-90/4	2	180	SPAIN	2006
135	GALLERIA SAN MARCO	980	ZVN 1-16-55/4	1	55	SPAIN	2006
136	TÚNEL DE SAN PEDRO	8900	ZVN 1-16-110/4 + ZVN 1-16-75/4	3	295	SPAIN	2006
137	VARIANTE DI CASTELNOVO DI GARFAGNANA		ZVN 1-16-55/4	1	55	SPAIN	2006
138	METRO ANKARA		gEL 9-45	1	45	SPAIN	2006
139	PROYECTO LAS TRUCHAS	2400	gEL 7-34 + gEL 9-86	3	206	SPAIN	2006
140	TUNELES DE MOLLEDO	1400	ZVN 1-14-90/4	2	180	SPAIN	2006
141	MAHANOZ ENERGY TUNNEL	1500	gEL 6-15	4	60	SPAIN	2006
142	BOLU WATER TUNNEL	4700	ZVN 1-12-55/4	2	110	SPAIN	2006
143	TUNEL DE MEIRAMA LAV	3400	ZVN 1-16-132/4	4	528	SPAIN	2006
144	GALLERIA IN MOENA	1800	ZVN 1-14-75/4	1	75	ITALY	2006
145	SAN CARLO - PIÈ DI MOGGIO		ZVN 1-18-110/4	2	220	ITALY	2007
146	AMBARLI PROJECT	4800	gEL 9-55	3	165	TURKEY	2007
147	TUNEL DE TALAVE	7500	ZEL 7-37/2	3	111	SPAIN	2007



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148	PT FREEPORT INDONESIA MINE		ZVN 1-16-285/4	4	1140	SPAIN	2007
149	TUNEL DE LA CABRERA L.A.V.	5500	ZVN 1-16-200/4	2	400	SPAIN	2007
150	GALLERIA CARCARE		ZVN 1-14-55/4	2	110	SPAIN	2007
151	GALLERIA VAL DI SAMBRO	860	ZVN 1-18-132/4	3	396	SPAIN	2007
152	METRO GENOVA	1800	ZVN 1-16-132/4	1	132	SPAIN	2007
153	METRO DE BASAURI	1200	ZVN 1-14-110/4	1	110	SPAIN	2007
154	GALLERIA SAN CARLO		ZVN 1-16-55/4 + ZVN 1-16-110/4	4	330	SPAIN	2007
155	UZUNDERE I PROJECT	6613	gEL 7-22	7	154	SPAIN	2007
156	GALLERIA BRANCATO	1734	ZVN 1-16-132/4	2	264	SPAIN	2007
157	GALLERIA IN AUTOESTRADA JONICA		ZVN 1-14-90/4	2	180	SPAIN	2007
158	TÚNEL DE CARBOEIRO	1200	ZVN 1-14-110/4 + ZVN 1-14-132/4	4	484	SPAIN	2007
159	TÚNEL DE SANTA AGUEDA	2000	ZVN 1-14-110/4	4	440	SPAIN	2007
160	TÚNEL DE PEDRALBA	2650	ZVN 1-16-110/4 + gEL 9-75	2	185	SPAIN	2007
161	TUNELES DEL BARRANCO DE LA BATALLA	2 x 850	ZVN 1-16-110/4 + ZVN 1-16-90/4	2	200	SPAIN	2007
162	DERELI TUNNEL	7500	gEL 7-30	2	60	SPAIN	2007
163	TRAMO 4 LINEA 9 METRO BARCELONA	4300	JZR 12-45/4	4	190	SPAIN	2007
164	PROYECTO HIDRAULICO RI 302		gEL 9-86	10	860	SPAIN	2007
165	TUNNEL DES OUDAYAS	320	ZVN 1-16-90/4	2	180	SPAIN	2007
166	TUNEL HIDRAULICO DESARROLLOS DEL ESTE EL CAÑAVERAL	4100	gEL 9-55	2	110	SPAIN	2007
167	PROYECTO HIDROELECTRICO PORCE III		ZVN 1-16-230/4	2	460	SPAIN	2007
168	GALLERIA A CHIETI		ZVN 1-16-55/4	1	55	SPAIN	2007



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169	TÚNEL DE ARGISAO	900	ZVN 1-16-75/4	1	75	SPAIN	2007
170	GALLERIA VALVERINA	3505	ZVN 1-16-132/4	2	264	SPAIN	2008
171	TUNEL DE SANT JUST	5316	ZVN 1-12-75/4	3	225	SPAIN	2008
172	HACARMEL TUNNEL		ZVN 1-14-110/4	2	220	SPAIN	2008
173	METRO C		ZVN 1-12-45/4	4	180	SPAIN	2008
174	PROYECTO HIDROELECTRICO BAJO MINA	5140	ZVN 1-12-63/4 + ZVN 1-12-52/4	5	304	SPAIN	2008
175	PROYECTO HIDROELECTRICO BAITUM	7760	ZVN 1-12-63/4	8	504	SPAIN	2008
176	APROVEITAMIENTO HIDROELECTRICO DO DOURO INTERNACIONAL PICOTE II		ZVN 1-18-132/4	1	132	SPAIN	2008
177	TUNEL DE XESTEIRO	685	ZVN 1-14-90/4	1	90	SPAIN	2008
178	PROLONGACION DE LOS FGC A TERRASA	3725	ZVN 1-14-132/4	6	792	SPAIN	2008
179	DISCENDERIA MULES - TUNNEL DEL BRENNERO		ZVN 1-16-110/4	1	110	SPAIN	2008
180	TÚNEL DE BURATA	2000	gEL 9-45	1	45	SPAIN	2008
181	HEPP TUNNEL PROJECTS	3000	gEL 9-45 + gEL 9-37	7	291	SPAIN	2008
182	TUNEL POZO PLANO CERRADO	3200	ZVN 1-16-200/4	2	400	SPAIN	2008
183	TUNEL AVE ARANJUEZ		ZVN 1-18-200/4	2	400	SPAIN	2008
184	METRO C	4200	ZVN 1-12-45/4	4	180	SPAIN	2008
185	KALIDROMO TUNNEL	9000	ZVN 1-16-132/4	4	528	SPAIN	2008
186	CHANTIER DE SANT MARTIN LA PORTE		ZVN 1-14-160/4	1	160	SPAIN	2008
187	TUNEL DE NOVELLE	820	ZVN 1-16-90/4	1	90	SPAIN	2009
188	PROYECTO EL CHAPARRAL		ZVN 1-12-37/4	1	37	SPAIN	2009
189	TUNEL DE MALDONADO		ZVN 1-14-160/4	2	320	SPAIN	2009



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190	TUNEL DE MARAO	5700	ZVN 1-18-250/4	2	500	SPAIN	2009
191	PROYECTO HIDROELECTRICO BAITUM	7760	ZVN 1-12-86/4	2	172	SPAIN	2009
192	LABORATOIRE ANDRA	1200	GEL 6-15/2	1	15	SPAIN	2009
193	CANTIERE DI CEFALÚ		ZVN 1-16-75/4	1	75	SPAIN	2009
194	TUNNEL ALPTRANSIT	34600	GEL 9-37/2	4	148	SPAIN	2009
195	VENTILADOR OBRA		GEL 7-37/2	3	111	SPAIN	2009
196	TUNEL ARTXANDA	3096	ZVN 1-12-55/4 + GEL 9-55/2	4	110	SPAIN	2009
197	FONDO MONCLOA L-3	220	gEL 7-22/2	1	22	SPAIN	2009
198	VENTILADOR OBRA		ZVN 1-18-200/4	3	600	ITALY	2010
199	CRTA. ALGETE-LA ALDEA	18463	ZVN 1-16-160/4 - ZVN 1-14-75/4	4	470	SPAIN	2010
200	METRO LIGERO DE GRANADA		ZVN 1-12-45/4 - ZVN 1-12-55/4	2	100	SPAIN	2010
201	VENTILADOR OBRA		ZVN 1-12-55/4	2	110	SPAIN	2010
202	PROYECTO ATEX		dEL 7-74	3	147	SPAIN	2010
203	CRTA. REDONDELA-PEINADOR		gEL 7-30/2	1	30	SPAIN	2010
204	TUNELES DE JERUSALEM		ZVN 1-18-250/4	3	750	SPAIN	2010
205	TUNEL RIO NALON	1189	gEL 5-15G	2	30	SPAIN	2010
206	VENTILADOR OBRA		ZVN 1-12-45/4+ZVN 1-12-55/4	2	100	SPAIN	2010
207	VENTILADOR OBRA		ZVN 1-18-132/4	3	396	SPAIN	2010
208	PROYECTO PLANTA HIDROELECTRICA ARKUM DAM		ZVN 1-12-75/4	6	450	SPAIN	2010
209	REPARACION CANAL DE BARLOVENTO	22,70	gEL 6-30G	4	120	SPAIN	2010
210	VENTILADOR OBRA		ZVN 1-12-55/4	2	110	SPAIN	2010



ZITRON TUNNEL REFERENCES - (TEMPORARY VENTILATION DURING EXCAVATION)

No.	Project	Length (m)	Fan type	Qty	Total Power (kW)	Country	Year
211	VENTILADOR DE OBRA		ZVN 1-12-75/4	2	150	SPAIN	2010
212	VENTILADOR DE OBRA		ZVN 1-18-250/4	2	500	SPAIN	2011
213	CTRA.AGATE-LA ALDEA-EL RISCO		ZVN 1-16-160/4	2	320	SPAIN	2011
214	VENTILADOR DE OBRA		gEL 5-15G	2	30	SPAIN	2011
215	TUNEL EXPRESS RAIL LINK	4500	ZVN 1-18-160/4 + ZVN 1-18-200/4	6	1120	SPAIN	2011
216	TUNEL SOGAMOSO	1080	ZVN 1-23-520/6 + ZVN 1-12-17/8	5	1091	SPAIN	2011
217	TUNELES TEL AVID		ZVN 1-14-160/4	2	320	SPAIN	2012
218	CROSSRAIL	21000	ZVN 1-14-250/4	4	1000	SPAIN	2012
219	TUNEL TABACUNDO	8290	gEL 9-52/2	3	156	SPAIN	2012
220	CROSSRAIL	21000	ZVN 1-14-75/4+ZVN 1-18-200/4	3	475	SPAIN	2012
221	CROSSRAIL	21000	ZVN 14-250y75/4+JZR 10-30/4	9	1195	SPAIN	2012
222	CROSSRAIL	21000	ZVN 1-14-132/4	1	132	SPAIN	2012
223	CROSSRAIL	21000	ZVN 1-12,5-132/4+ZVN 1-12,5-90/4	3	354	SPAIN	2012
224	VENTILADORES DE OBRA		gEL 9-55/2 + gEL 9-75/2	4	260	SPAIN	2013
225	VENTILADORES DE OBRA		ZVN 1-12-55/4+ZVN 1-14-75/4	2	130	SPAIN	2013
226	VENTILADORES DE OBRA		GEL 7-37/2	2	74	SPAIN	2013
227			JZ 10-30/4	1	30	SPAIN	2013
228	CAMPOBECERROS-POROCAMBA	4200	ZVN 1-16-132/4	4	528	SPAIN	2013
229	VARIANTE BERMEO		gEL 9-75/2	1	75	SPAIN	2013
230	GALLERIA DI BASE DEL CENERI-LOTTO		ZVN 1-22-800/6	3	800	SPAIN	2013
231	TUNEL UMA OYA		ZVN 1-14-160/4 + ZVN 1-14-75/4 + gEL 9-75/2 + gEL 9-37/2	14	347	SPAIN	2014



ZITRON TUNNEL REFERENCES - (TEMPORARY VENTILATION DURING EXCAVATION)

No.	Project	Length (m)	Fan type	Qty	Total Power (kW)	Country	Year
232	MINERIA TEXAS		gEL 6-25/2	2	25	SPAIN	2014
233	VENTILADOR DE OBRA		gEL 9-75/2	2	75	SPAIN	2014
234	VENTILADOR DE OBRA		gEL 9-75/2	1	75	SPAIN	2014
235	VENTILADOR DE OBRA		gEL 9-45/2 + gEL 7-22/2	4	67	SPAIN	2014
236	TUNEL CORNO VIA DERECHA		ZVN 1-18-450/4	2	450	SPAIN	2014
237	DRIVE G-LIMO		ZVN 1-14-110/4	1	110	SPAIN	2014
238	VENTILADORES DE OBRA		gEL 9-37/2 + gEL 9-55/2	7	92	SPAIN	2014
239	VENTILADOR DE OBRA		ZVN 1-18-200/4	1	200	SPAIN	2014
240			ZVN 1-16-250/4	2	250	SPAIN	2014
241	VENTILADOR DE OBRA		gEL 9-75/2	1	75	SPAIN	2014
242	VENTILADOR DE OBRA		2xZVN 1-12,5-110/4	2	110	SPAIN	2014
243	VENTILADOR DE OBRA		ZVN 1-12-86/4	1	86	MEXICO	2014
244	VENTILADOR DE OBRA		gEL 9-75/2	1	75	SPAIN	2015
245	LIANTANG		ZVN 1-20-315/4 + ZVN 1-20-250/4	8	565	HONG KONG	2015
246	PENTA OCEAN T211	-	GEL 7-30/2	2	60	SINGAPORE	2016
247	METRO DE MOSCU		ZVN 1-16-160/4	1	160	RUSSIA	2016
248	THOMSON LINE T-208 CONTRACT	1155	ZVN 1-9-75/2	1	75	SINGAPORE	2016
249	LIANTANG TUNNEL CONTRACT 6	500	ZVN 1-18-200/4	1	200	HONG KONG	2016
250	FOLLO LINE	18000	ZVN 1-20-315/4	4	1260	NORWAY	2016
251	NORTHERN LINE EXTENSION	3000	ZVN 1-12-75/4 + ZVN 1-12-90/4	2	165	UNITED KINGDOM	2016
252	TUNEL LAJOUT		ZVN 1-14-110/4	1	110	FRANCE	2016



ZITRON TUNNEL REFERENCES - (TEMPORARY VENTILATION DURING EXCAVATION)

No.	Project	Length (m)	Fan type	Qty	Total Power (kW)	Country	Year
253	LAIN TANG	400	ZVN 1-16-250/4	1	250	HONG KONG	2016
254	THOMSON LINE	-	gEL 9-37/2	2	0	SINGAPORE	2016
255	VILLE MARIE	-	JZRi 9-22/4 + JZRi 12-45/4	9	290	CANADA	2016
256	TUNEL A ROUEN		JZ 6-15/2	1	15	FRANCE	2016
257	DANANG - QUANG NGAI TUNNEL	-	JZR 10-30/4	4	120	VIETNAM	2016
258	VENTILACION TEMPORAL	-	ZVN 1-16-250/4	3	0	IRAN	2016
259	ESTACION DE COGENERACION		ZVN 1-16-55/6	1	0	SPAIN	2016