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# **Cigré Survey of 380kV to 500kV Overhead Transmission Line Projects**

## **Summary Report**

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**Report Title:** Survey of 380kV – 500kV Overhead Line Projects.  
CIGRE member Countries.

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**Volume 1 of 1**

**Prepared by:** Colm Moloney & Jarlath Doyle  
**Title**

**APPROVED:** **C.O luain**  
**TITLE:**

**DATE:** **22/05/08**

**Latest Revision Summary:** (a) Correspondence received from Canada (new data included). (b) Changes made to original data supplied by, Czech Republic, Denmark, France, & Sweden. (c) Clarification added on route length. See 6.0 for report changes history.

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## **Executive Summary**

The following report details the findings of an ESB International (ESBI) survey conducted to obtain information on projects relating to electrical infrastructure within CIGRÉ member Countries. An email questionnaire was issued to the members of Working Group B2 06 “Principles of Overhead Line Design” and also to members of Study Committee B2. The survey requested information on Overhead Lines in the voltage range 380kV to 500kV that are currently in planning, construction or commissioned since the year 2000.

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## 1.0 INTRODUCTION

EirGrid (Irish TSO) are presently working on developing new 400kV Overhead Line Projects in the Republic of Ireland. Two single circuit 400kV lines are being proposed with a total length of 150 kilometres. Both projects were announced to the general public in 2007 and the initial stage of consultation has been completed. Unfortunately the projects have not been received within the general public with great enthusiasm. The backlash against the project is strong with numerous “Action Groups” being setup throughout the affected communities to resist the development of the overhead lines.

In EirGrid’s engagement with the action groups, a principle argument has been put forward, suggesting that 400kV Overhead Lines are no longer built in Europe. While anecdotally ESBI know that this is not the case, it was felt a more cohesive argument could be made based on hard facts. In our efforts to collect and collate this information, ESB International circulated a survey questionnaire to CIGRÉ\*. A version of this survey can be seen in the Appendices.

The body of this report contains all information received in reply to the survey conducted by ESB International from CIGRE members on Overhead Lines in the voltage range 380kV to 500kV that are currently in planning, construction or commissioned since the year 2000.

ESBI would like to thanks all respondents for their time and effort in completing the survey.

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\*Conseil Internacional des Grands Réseaux Electriques ([www.cigré.org](http://www.cigré.org))

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## **2.0 OVERVIEW OF PROPOSED 400KV PROJECTS**

EirGrid is planning two projects to facilitate cross-border sharing of electricity, promote better competition and to ensure a future secure supply of electricity throughout the North East. The two projects are:

- 80km long Cavan Tyrone 400kV Power Line – the new North-South Interconnector
- 58km Woodland (Co Meath) to Kingscourt (Co Cavan) 400kV Power Line.

A new 80km long 400kV Interconnector between Cavan and Tyrone will more than double the current power transfer capacity between the North and the South, 35km approximately will be in Northern Ireland and the remaining 45km approximately will be in the Republic of Ireland, routed from a proposed new substation near Kingscourt in Co Cavan, through Co Monaghan to a proposed new substation in Co Tyrone. This project is being undertaken in co-operation with Northern Ireland Electricity (NIE). The proposed Cavan-Tyrone 400kV Interconnector Project is a joint Eirgrid – Northern Ireland Electricity project which will achieve the objective of strengthening the electricity grid in both jurisdictions.

The 58km Woodland, Co Meath to Kingscourt, Co Cavan 400kV Power Line is necessary to strengthen the existing power supply in the North East due to recent increased development in the region. This project will connect the existing sub-station in Woodland, Co Meath to a proposed new sub-station near Kingscourt in Co Cavan. An indicative map of both projects is included on page 6 of this report.

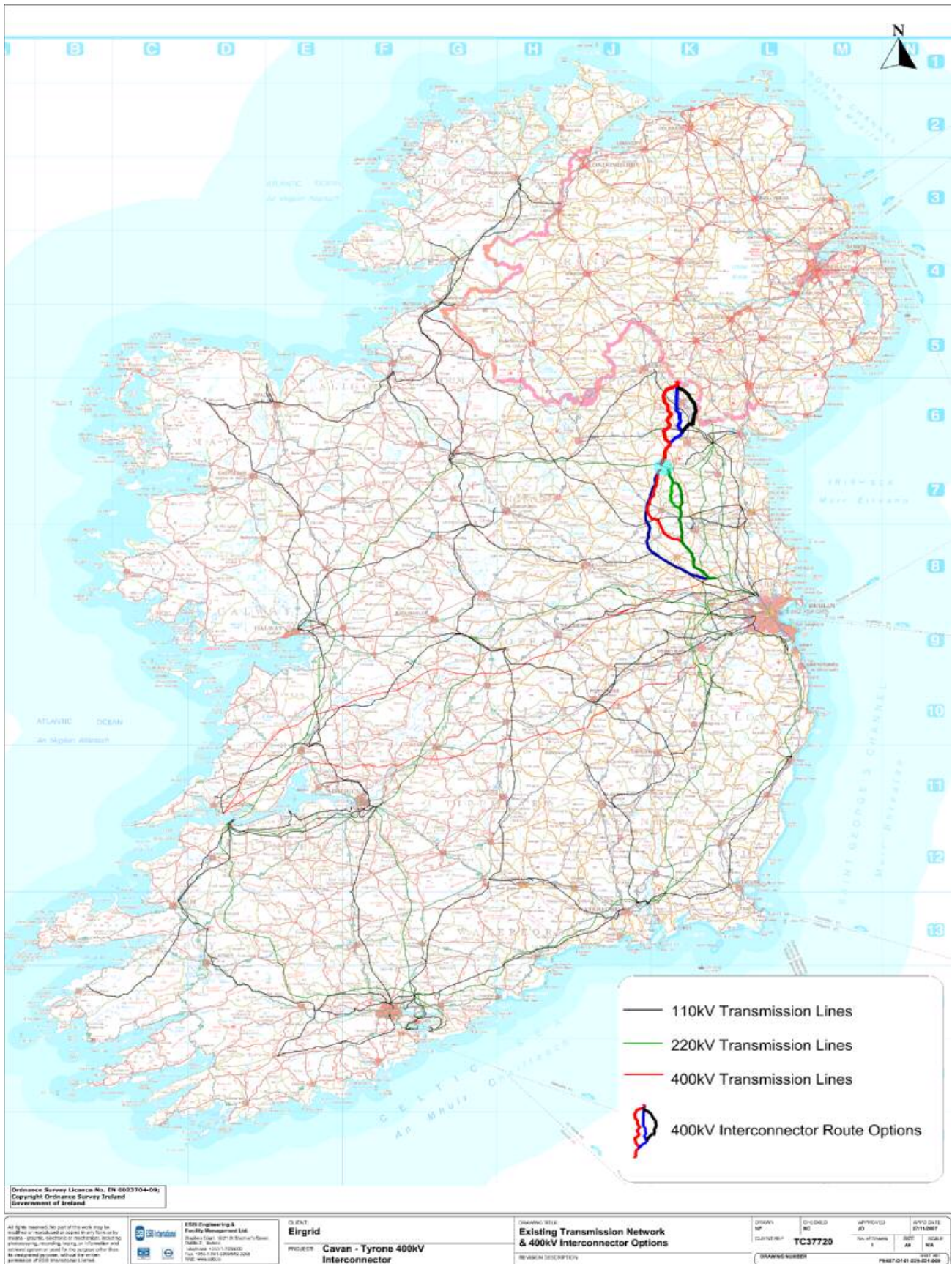
Eirgrid & NIE commissioned a study on various 400kV steel lattice tower designs (both hot rolled and cold formed) to determine which design would be aesthetically most suitable for use with the proposed Cavan – Tyrone 400kV Interconnector project.

Four Tower designs were analysed:

1. Existing ESB 400kV IVI Tower with prominent shieldwire peaks
2. IVI Configuration Tower
3. VVV Configuration Tower
4. Inverted Delta Configuration Tower

Evaluation eventually led to the adoption of the IVI hot rolled tower

Appendix 1 shows a photomontage of IVI reduced visual impact tower.



### **3.0 COUNTRIES PARTICIPATING IN SURVEY**

As previously discussed an email questionnaire was issued to the members of Working Group B2 06 “Principles of Overhead Line Design” and also to the members of Study Committee B2. The survey requested information on Overhead Lines in the voltage range 380kV to 500kV that are currently in planning, construction or commissioned since the year 2000. A high level of responses was received and information from the following countries has been collated in this report:-

1. Austria
2. Belgium
3. Canada
4. Czech Republic
5. Denmark
6. France
7. Germany
8. Greece
9. Ireland
10. Israel
11. Italy
12. Netherlands
13. New Zealand
14. Norway
15. Poland
16. Russia (Including Siberia)
17. South Africa
18. Spain
19. Sweden
20. USA
21. Venezuela

For ease of understanding the responses have been subdivided into countries from the European Community and countries outside the European Community. Some countries provided data before the time period requested. This data is not included in the summary spreadsheet. The data received from Germany was only given as a projected overall total with a map. Data on a significant proposed 400kV development in Scotland is included with the overall results.

This Scottish data was not received in response to the survey; however it has been included due to our knowledge of it being in the inquiry process. The data provided for the proposed Cavan – Tyrone 80km 400kV Interconnector in Ireland incorporates, 35km proposed by Northern Ireland Electricity & 45km proposed by Eirgrid.

## 4.0 SUMMARY OF RESULTS

Based on the survey results the amount of overhead transmission line, in the voltage range 380kV to 500kV, that are currently in planning, construction or commissioned since **the year 2000** is as follows;-

### Countries of European Community

Constructed/Commissioned =	<b>1,988.3km</b>
Currently in Planning/Consent Process =	<b>2,466km</b>
Currently under Construction =	<b>448km</b>

### Countries outside European Community

Constructed/Commissioned =	<b>5,452.3km</b>
Currently in Planning/Consent Process =	<b>12,673.2km</b>
Currently under Construction =	<b>2,470km</b>

The figures given above were calculated based on the data received in reply to the survey from each participating country. The figures given are linear route kilometres. As the figures above indicate there is a high level of overhead line transmission activity both in European and non European Countries. A full break down of all figures can be accessed in appendices 2 and 3 of this report.

## 5.0 CONCLUSIONS

The purpose of this survey was to investigate the argument put forward by various action groups that 400kV overhead lines are no longer constructed in Europe. The information contained within this report is based on the replies from 21 countries from both within and outside the European Community. Globally this information can be considered as only a small sample of the overhead transmission line activity.

Given the figures detailed in this report it can be categorically stated large lengths of overhead line in the range 380 to 500kV are being planned, constructed or have been commissioned both in Europe and globally. Based on the responses to this survey of Cigré members nearly 4,902.3km of overhead line are in various stages of planning, construction or have been commissioned since the **year 2000** in Europe.

## 6.0 Change History of Report

Correspondence Received	DATE	CHANGE	REVISION
1. New information received from Canada	28/04/2008	New Data	01
2. Change of information for France	28/04/2008	(A) New 400kV line included Mery sur Seine Vesle. (B) Line 3 changed to 30km & 2 no circuits	01
3. Change of Information for Denmark	28/04/2008	Line 2: Status of Project: Completed	01
4. Change of Information for Sweden	28/04/2008	500 kV line Dannebo-Finnböle is a DC-line not AC	01
5. Change of Information for Czech Republic.	28/04/2008	line 1 is located between Krasikov-Horni Zivotice, 1x400 kV, app.78,4 km, new line - line 2 is located between Cechy Stred - Bezdecin, 1x400+1x220kV, app.65 km, new line in an existing corridor	01

6. Austria. Query on whether route or system length used.	21/05/2008	Clarification insert in report confirming that route lengths are used.	02
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## **Appendix 1: Photomontage of Reduced Visual Impact Tower (IVI-Hot Rolled)**



## **Appendix 2:- Original Questionnaire**

**From:** Doyle, Jarlath (ESBI)

**Sent:** 20 February 2008 08:32

**To:** Members of Cigre Working Group B2 06

**Subject:** Survey of 380kV to 500kV overhead line projects

Dear Colleagues,

I am currently working for our client, EirGrid (Irish TSO), on the development of new 400kV overhead line projects. Two single circuit 400kV lines are being proposed with a total length of 150km. Both projects were announced to the general public last year and the initial stage of consultation has been carried out. As you can imagine the backlash against the projects has been strong and numerous "Action Groups" have been setup throughout the affected communities to resist the development of the overhead lines. In our engagement with these action groups to date, a principle argument that is being put forward is that internationally 400kV overhead lines are no longer built. While anecdotally I know this is not the case it would be very useful to have hard facts on the amount of overhead lines in the voltage range 380 to 500kV that are currently in planning, construction or indeed commissioned since the year 2000. See attached survey form.

I would be very grateful if you could complete this survey form for the 380-500kV overhead line developments which have taken place in your respective countries since the year 2000.

Kind regards,

Jarlath Doyle,

Consultant Engineer

High Voltage

Engineering, Design, Systems & Resources

ESBI Engineering & Facility Management Ltd.

**From:** Cathal O'Luain [mailto:Cathal.OLuain@esbi.ie]  
**Sent:** Saturday, 23 February 2008 5:25 AM  
**To:** **Strategic Advisory Group & Customer Advisory Group B2**

Dear Colleagues,

We are currently working for our client, EirGrid (Irish TSO), on the development of new 400kV overhead line projects. Two single circuit 400kV lines, one an interconnector to the North of Ireland, are being proposed with a total length of 150km. Both projects were announced to the general public last year and the initial stage of consultation has been carried out. As you can imagine the backlash against the projects has been strong and numerous "Action Groups" have been set up throughout the affected communities and counties to oppose the construction of the overhead lines, with demands for undergrounding. In our engagement with these action groups to date, a principle argument that is being put forward is that in many countries, and particularly in Europe, 400kV overhead lines are no longer built. While we know this is not the case it would be very useful to have hard facts on the amount of overhead lines in the voltage range 380 to 500kV that are currently in planning, construction or indeed commissioned since the year 2000. See attached survey form.

I would be very grateful if you could complete this survey form for the 380-500kV overhead line developments which have taken place in your respective countries since the year 2000.


Best regards and thanking you in anticipation, full survey results will be supplied to respondents.


Cathal Ó Luain  
(SAG and CAG member B2)  
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Survey Questionnaire


<b><u>Information on specific 380kV to 500kV Projects (Year 2000 onwards). Please include information on OHLs energised, in the permit process and under construction</u></b>	
1	Name and Location of overhead line (Approximate)
2	Current (AC or DC)
3	Normal operating Voltage of line (kV)
4	Length of line (km)
5	Number of circuits (single/double/multi)
6	Status of Project
7	Date of commencement of permit/consent process
8	Date of receipt of permit/consent
9	Date of commencement of construction
10	Date or projected date of completion / commissioning
11	Information on type of consultation process used on project


### Appendix 3:- ESB International Survey Results: European Community

		Country: AUSTRIA					
Name & Location of Line:		Wien Sudost - Sudburgenland (Burgenlandleitung)					
Current:		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	107km	2	Put into service Year 2000	1980 1st contact Final application 1996	1998	1998	2000
Name & Location of Line:		St.Peter - Salzach (Slazburgleitung)					
Current:		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	46km	2	Decision expected April/May 2008	Application EIA 2006	April 2008	Foreseen 2009	Foreseen 2011
Name & Location of Line:		Sudburgenland - Kainachtal (Steiermarkleitung)					
Current:		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	98km	2	Under Construction	Appliccation made 1985 Application EIA end 2003	Spring 2007	Autumn 2007	Summer 2009
Name & Location of Line:		Schaltwerk Etzdersorf - UW Theiss					
Current:		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	16.7km	2	Erection works in progress	Application 2004	2nd level 2006	2006	Foreseen Oct-07

		Country: <b>BELGIUM</b>					
<b>Name &amp; Location of Line:</b>		<b>Avelgem - Avelin (second circuit on existing line)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	21km	1	Completed			2004	2005
<b>Name &amp; Location of Line:</b>		<b>Lillo - Zandvliet</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	12km	2	Under Study			2009	2010
<b>Name &amp; Location of Line:</b>		<b>Zutendal - Meerhout</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	40km	2	Under Study Second Circuit			Foreseen 2013	Foreseen 2015

		<b>Country:</b> <b>CZECH REPUBLIC</b>					
<b>Name &amp; Location of Line:</b>		<b>Krasikov - Horni Zivotice</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	78km	1x400	New Line	2003	not yet	2010 expected	2011 expected
<b>Name &amp; Location of Line:</b>		<b>Cechy Stred - Bezdecin</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400/220 kV	65km	1x400 1x220	New Line	1997	2005	2006	2007


		<b>Country:</b>					
		<b>DENMARK</b>					
<b>Name &amp; Location of Line:</b>		<b>Aarhus - Aalborg</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	124	1 x 1 1 x 2	Completed	1991	2001	2001	2004
<b>Name &amp; Location of Line:</b>		<b>Endurp - Vejen</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 Kv	31	1 x 400 1 x 150	Completed	1996	1999	1999	2001

		<b>Country:</b> <span style="background-color: #cccccc;">FRANCE</span>					
<b>Name &amp; Location of Line:</b>		<span style="background-color: #cccccc;">Baixas - Vich</span>					
<b>Current:</b>		<span style="background-color: #cccccc;">Alternating Current</span>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	57km	2	Completed				2000
<b>Name &amp; Location of Line:</b>		<span style="background-color: #cccccc;">Serein - Villechative</span>					
<b>Current:</b>		<span style="background-color: #cccccc;">Alternating Current</span>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	9.1km	2	Completed				2001
<b>Name &amp; Location of Line:</b>		<span style="background-color: #cccccc;">Vigy - Uchtelfangen 1&amp; 2</span>					
<b>Current:</b>		<span style="background-color: #cccccc;">Alternating Current</span>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	30.1km	2	Completed		2001		2002

<b>Name &amp; Location of Line:</b> Tavel - Tricastin 4 & 5							
<b>Current:</b> Alternating Current							
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	40.2km	2	Completed				2002
<b>Name &amp; Location of Line:</b> Morbras - Villevaude							
<b>Current:</b> Alternating Current							
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	15.3km	2	Completed				2002
<b>Name &amp; Location of Line:</b> Chevalet - Gavrelle 1 & 2							
<b>Current:</b> Alternating Current							
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	30km	2	Completed		2001		2003
<b>Name &amp; Location of Line:</b> Argoeuves - Chevalet 1 & 2							
<b>Current:</b> Alternating Current							
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	42km	2	Completed	2001	2003		2004

<b>Name &amp; Location of Line:</b>		<b>Chaffart - Grande Ile 1 &amp; 2</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	78.1km	2	Completed	2006	2006		2007

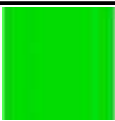

<b>Name &amp; Location of Line:</b>		<b>Mery sur Seine Vesle</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	81km	2	Completed				2000


		Country: <b>GREECE</b>					
<b>Name &amp; Location of Line:</b>		<b>Atgyroypoli - Lavrio</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	37.5km	1	Energised	2002	2003	2003	2003
<b>Name &amp; Location of Line:</b>		<b>Arahthos - Aetos</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	16.5km	1	Energised	1994	1996	1999	2000
<b>Name &amp; Location of Line:</b>		<b>Amyntaio - Florina</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	26km	2	Energised	2001	2002	2002	2002

<b>Name &amp; Location of Line:</b>		<b>Florina - Bitola</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	18km	1	Energised	2001	2002	2006	2007

<b>Name &amp; Location of Line:</b>		<b>Fillipoi - Nea Santa</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	138km	2	Under Construction	2002	2003	2006	Expected 2008

<b>Name &amp; Location of Line:</b>		<b>Nea Santa - Turkey</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	70km	1	Under Construction	2003	2004	2006	Expected 2008

				Country: <b>IRELAND</b>			
<b>Name &amp; Location of Line:</b>				<b>Moneypoint - Woodlands 400kV loop-in</b>			
<b>Current:</b>				<b>Alternating Current</b>			
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	1km	1	Completed				2003
<b>Name &amp; Location of Line:</b>				<b>Cavan - Tyrone 400kV North_South Interconnector</b>			
<b>Current:</b>				<b>Alternating Current</b>			
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400kV	80km	1	Ongoing				
<b>Name &amp; Location of Line:</b>				<b>Woodland (Co.Meath) - Kingscourt (Co.Cavan)</b>			
<b>Current:</b>				<b>Alternating Current</b>			
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400kV	58km	1	Ongoing				

		<b>Country:</b> ITALY					
<b>Name &amp; Location of Line:</b>		Italy - France Interconnector					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV			Study Process				
<b>Name &amp; Location of Line:</b>		Trino (Vercelli) - Lacchianella (Milan)					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	85km	2					Foreseen 2011
<b>Name &amp; Location of Line:</b>		Casanova - Asti - Vignole					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Razionalizzazione (Provincia di Lodi) / Casella Station - Caorso Station</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV		2					Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Ferrera Erbognone - La casella (New line)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Long period

<b>Name &amp; Location of Line:</b>		<b>Venezia - Padova</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>Italy - Austria Interconnector</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV		2	Study Process				Long Period

<b>Name &amp; Location of Line:</b>		<b>Italy - Slovenia Interconnector</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV			Study Process				Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>Sandrigo - Cordigano &amp; Venezia Nord - Salgareda</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>Udine Ovest - Redipuglia</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>Calenzano - Colunga</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>S.Barbara - Tavarnuzze</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	30km	1					Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>Tavarnuzze - Casellina</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	1						Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>Fano - Teramo</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2013

<b>Name &amp; Location of Line:</b>		<b>Foggia - Vilanova</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Italy - Albania Interconnector</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV							Foreseen 2015

<b>Name &amp; Location of Line:</b>		<b>Foggia - Villanova</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV		2					Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Sorgente - Rizziconi</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV		2					Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>Trasversale - Calabria</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>Candela - Matera - S.Sofia</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>Chiaromonte Gulfi - Ciminna</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Paterno - Priolo</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2012


<b>Name &amp; Location of Line:</b>		<b>Sorgente - Ciminna</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2013


<b>Name &amp; Location of Line:</b>		<b>Lttiri - Codrongianos</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV							Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>Matera - S.Sofia</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV			Completed 2007				2007

<b>Name &amp; Location of Line:</b>							
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning

<b>Name &amp; Location of Line:</b>							
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning

		<b>Country:</b> <b>NETHERLANDS</b>					
<b>Name &amp; Location of Line:</b>		<b>RANDSTAD 380 - (WEST NETHERLANDS, DENSELY POPULATED)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380 kV	80km	2	EIA Study Underway Ongoing	2005	Expected 2010	Expected 2010	Expected 2012


		Country: <b>NORWAY</b>					
<b>Name &amp; Location of Line:</b>		<b>Klaebu - Viklandet</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
420 kV	100km	1	In Service 2004				
<b>Name &amp; Location of Line:</b>		<b>Viklandet - Fraena - Nyhamma</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
420 kV	130km	1	In Service 2006				
<b>Name &amp; Location of Line:</b>		<b>Skareheia - Holen</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
420 kV	130km	1	Under Construction			Foreseen 2007	Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>Nea - Sweden</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
420 kV	30km	1	Ongoing			Foreseen 2008	Foreseen 2009


<b>Name &amp; Location of Line:</b>		<b>Sima - Samnanger</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
420 kV	80km	1	Concession Expected 2008			Foreseen 2009	Foreseen 2012


<b>Name &amp; Location of Line:</b>		<b>Ofoten - Balsfjord - Hammerfest</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
420 kV	380	1	Concession to be delivered			Foreseen 2011	Foreseen 2014

<b>Name &amp; Location of Line:</b>		<b>Orskog - Sogan</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
270	270	1	Licenec Application Sent for Approval			Foreseen 2009	Foreseen 2012

		<b>Country:</b> <span style="background-color: #cccccc;">POLAND</span>					
<b>Name &amp; Location of Line:</b>		<b>Dobrzeń - Wielopole</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Receipt of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commissioning
400 kV	102km	2	Completed	1997	1998	1998	2003
<b>Name &amp; Location of Line:</b>		<b>Ostrow - Rogowiec - Trebaczew</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Receipt of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commissioning
400 kV	106km	2	Near Completion	2004	2006	2006	Expected 2008
<b>Name &amp; Location of Line:</b>		<b>Belchatow Power Plant - Connection with national network</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Receipt of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commissioning
400 kV	40km	1	Ongoing	2006	2008	2008	Expected 2009

<b>Name &amp; Location of Line:</b>		<b>Lafisza Power Plant - Connection with national network</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	9km	2 x 400 1 x 220	Ongoing	2007	2008	2008	2008
<b>Name &amp; Location of Line:</b>		<b>Morzyczyn - connection with national network</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	3km	2 x 1	Ongoing	2007	2008	2008	2008
<b>Name &amp; Location of Line:</b>		<b>Kromolice - Patnow</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	80km	2	Ongoing	2007	2008	2009	2009

		<b>Country:</b>					
		<b>SCOTLAND</b>					
<b>Name &amp; Location of Line:</b>		<b>Beauly - Denny 400kV line</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	220km	2	In Planning	Decision Expected 2008		Foreseen 2009	Foreseen 2012

		Country: <b>SPAIN</b>					
<b>Name &amp; Location of Line:</b>		<b>E/S CARTELLE L/CASTRELO - VELLE</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	4	2	Completed				2000
<b>Name &amp; Location of Line:</b>		<b>SE CASTEJÓN - CTCC CASTEJÓN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2000
<b>Name &amp; Location of Line:</b>		<b>E/S PINILLA ROMICA - ROCAMORA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2000

<b>Name &amp; Location of Line:</b>		<b>MOD. CALATAYUD ESTE - MAGALLÓN (APOYOS 53 Y 81)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	16	2	Completed				2000
<b>Name &amp; Location of Line:</b>		<b>SANTURTZI - ZIERBENA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	4	1	Completed				2000
<b>Name &amp; Location of Line:</b>		<b>E/S GURREA L/SABIÑANIGO - VILLANUEVA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2000

<b>Name &amp; Location of Line:</b>		<b>E/S BOIMENTE L/ALUMINIO - PUENTES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	4	1	Completed				2000
<b>Name &amp; Location of Line:</b>		<b>E/S MAGALLÓN L/LA SERNA - PEÑAFLO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	31	2	Completed				2000
<b>Name &amp; Location of Line:</b>		<b>E/S PUERTO DE LA CRUZ L/PINAR - TARIFA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	10	4	Completed				2001

<b>Name &amp; Location of Line:</b>		<b>E/S FUENTES DE LA ALCARRIA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	30	2	Completed				2001
<b>Name &amp; Location of Line:</b>		<b>L/ CTCC CASTELNOU - ARAGÓN ( a terceros)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2001
<b>Name &amp; Location of Line:</b>		<b>MENUZA-ESCATRÓN (a terceros)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	3	2	Completed				2002

<b>Name &amp; Location of Line:</b>		<b>MOD. ENTRADA SE PENAGOS L/SOTO - PENAGOS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2002
<b>Name &amp; Location of Line:</b>		<b>E/S GARRAF L/VANDELLÓS - BEGUES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	2	Completed				2002
<b>Name &amp; Location of Line:</b>		<b>MOD. 2º C. LITORAL - ROCAMORA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	1	Completed				2002

<b>Name &amp; Location of Line:</b>		<b>MOD. LA ELIANA - LA PLANA 2</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2002
<b>Name &amp; Location of Line:</b>		<b>E/S N. ESCOMBRERAS L/ESCOMBR. - ROCAMORA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2002
<b>Name &amp; Location of Line:</b>		<b>MOD. ESCOMBRERAS - ROCAMORA (AP. 3 Y 8)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2002

<b>Name &amp; Location of Line:</b>		<b>MOD. SOTO DE RIBERA - LADA ( SE YT6)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	2	Completed				2002

<b>Name &amp; Location of Line:</b>		<b>MUDARRA - LA OLMA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	21	1	Completed				2002

<b>Name &amp; Location of Line:</b>		<b>BALBOA - F. PORTUGUESA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	40	2	Completed				2002
<b>Name &amp; Location of Line:</b>		<b>E/S LA ESPLUGA L/ASCÓ - BEGUES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	2	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>MOD. SOTO - PENAGOS (ASTURIAS Y CANTABRIA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	72	1	Completed				2003

<b>Name &amp; Location of Line:</b>		<b>ENLACE DON RODRIGO - PUERTO DE LA CRUZ</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>E/S OLMEDO L/ MUDARRA - LASTRAS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2003

<b>Name &amp; Location of Line:</b>		<b>N. ESCOMBRERAS - EL PALMAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	50	2	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>E/S EL PALMAR L/LITORAL - ROCAMORA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	23	4	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>ENTRONQUE GALAPAGAR - ENTRONQUE SS REYES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	30	2	Completed				2003

<b>Name &amp; Location of Line:</b>		<b>MOD. ESCOMBRERAS - ROCAMORA (AP. 1 Y 2)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>E/S AYORA L/COFRENTES - BENEJAMA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>E/S TRÉVAGO L/ ONCALA - MAGALLÓN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2003

<b>Name &amp; Location of Line:</b>		<b>ZIERBENA - ABANTO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	6	2	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>MOD. COFRENTES - LA ELIANA Y CATADAU - LA ELIANA POR URBANIZACIÓN RESIDENCIAL CALLE MURCIA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>MOD. L/ 220 kV FOIX - CASTELLET Y CASTELLET - VILADECANS PARA NUEVA E/S EN FOIX - VILADECANS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2003

<b>Name &amp; Location of Line:</b>		<b>E/S BEGUES L/ CASTELLET - VILADECANS Y MOD. L/ RUBI - BEGUES Y SANT BOI/COLLBLANC 2 - BEGUES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>E/S PIEROLA L/ BEGUES - SENTMENAT</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2003
<b>Name &amp; Location of Line:</b>		<b>MOD. L/ CTCC CASTELNOU - ARAGÓN (a terceros)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	17	2	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>NUEVA E/S EN GALAPAGAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>E/S LA LORA L/HERRERA - BARCINA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	60	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>CASTEJÓN - MURUARTE</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>MODIF. E/S GALAPAGAR L/TORDESILLAS-MORALEJA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	10	1	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>E/S ABANTO L/PENAGOS-GÜENES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	31	4	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>OCUPACIÓN DPMT INTERC. 2º C ESPAÑA-MARRUECOS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV		1	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>OCUP. SERV. PROTE 2º C. ESPAÑA-MARRUECOS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>PESOSZ-SANZO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	51	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>PESOSZ-SALAS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	10	2	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>E/S SALAS L/NARCEA-SOTO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	110	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>TORDESILLAS-SEGOVIA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	31	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>ESMA 2º C MEMORIA T. C. CAÑADA REAL</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	31	1	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>ESMA 2º C MEMORIA T. C. MONTE U.P. LA PEÑA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	15	1	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>E/S MURUARTE L/CORDOVILLA-ORCOYEN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	3	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>E/S CABRA L/GUADALQUIVIR-TAJO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	41	1	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>CABRA-LA RODA DE ANDALUCÍA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>MODIF. L/TORDESILLAS-VILLARINO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>L/220 kV CASTELLET-LA GORNAL</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>ADDENDUM E/S EL PALMAR L/LITORAL-ROCAMORA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	14	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>ADDENDUM N. ESCOMBRERAS-EL PALMAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	3	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>ADDENDUM MODIF. CASTEJON-MURUARTE</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	4	2	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>MODIF. CABRA-LA RODA ENTRE APOYOS T18 Y T26</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	54	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>MESÓN DO VENTO- PUENTES DE GARCÍA RODRIGUEZ</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>E/S EN LA CEREAL L/ENTR. GALAPAGAR-ENTR. S.S. REYES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>SIDERURGICA BALBOA II-BROVALES (ANULADO)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV		1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>MODIFIC. TORDESILLAS-SEGOVIA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	11	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>NUEVA ALIMENTACIÓN A GIRONA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	49	2	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>ENTRONQUE SEGOVIA-ENTRONQUE GALAPAGAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	76	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>EL PALMAR 220 kV- EL PALMAR 400 kV (ANULADO)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>PENAGOS-GÜEÑES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	75	2	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>PIEROLA-STA. COLOMA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>E/ EN GAZULES L/PTO. REAL-CASARES Y E/S GAZULES L/ALCORES-PINAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	6	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>LÍNEAS DE 220 Y 400 kV DE E/S EN JORDANA (ANULADO)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	6	2	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>E/S SAGRERA DE LA L/330 kV BADALONA-MARAGALL</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>SIDERURGICA BALBOA II-BROVALES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>CAMBIO TENSIÓN DE 220 A 400 kV AGUAYO-PENAGOS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2006

<b>Name &amp; Location of Line:</b>		<b>EL PALMAR 220 kV- EL PALMAR 400 kV y MODIF. FAUSITA-EL PALMAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>MODIFIC. CABRA-LA RODA APOY T53 Y T58</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	3	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>PTO. REAL-ENTRONQUE EN LA SE DE GAZULES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	29	1	Completed				2006

<b>Name &amp; Location of Line:</b>		<b>E/S TORRENTE DE LA L/CATADAU-LA ELIANA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	8	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>ADDENDUM NUEVA ALIMENTACIÓN A GIRONA 400kV</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	16	1	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>LÍNEAS DE 220 Y 400 kV DE E/S EN JORDANA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	6	2	Completed				2006

<b>Name &amp; Location of Line:</b>		<b>MODIF. SOTO DE RIBERA-PENAGOS (V. PILONA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	12	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>E/S CARTAMA L/GUADALQUIVIR M.-TAJO DE LA ENCANTADA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	23	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>E/S CARTAMA DE LAS LÍNEAS 220 kV AL-MONT, TAJO-ALH Y CAS-RA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	2	Completed				2006

<b>Name &amp; Location of Line:</b>		<b>MODIF. ENTR. SEGOVIA-ENTR. GALAPAGAR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	14	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>MODIF. VILLAVICIOSA-MORALEJA ENM.</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	14	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>MODIF. GALAPAGAR-MORALEJA ENM. ENTRE AP. 141 Y 112</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	20	2	Completed				2006

<b>Name &amp; Location of Line:</b>		<b>SOTO DE RIBERA-PENAGOS. VARIANTE NAVA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	60	2	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>TRIVES-APARECIDA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	176	2	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>APARECIDA-TORDESILLAS</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2007

<b>Name &amp; Location of Line:</b>		<b>MODIF. MESÓN-PUENTES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>LINEA AEREA/SUBTERRANEA MORVEDRE 400- MORVEDRE 220</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>E/S CARMONA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2007

<b>Name &amp; Location of Line:</b>		<b>E/S CARMONA SUSTIT. APOYO 77</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	5	2	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>MODIF. SOTO DE RIBERA-PENAGOS (V. SIERO)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	143	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>ARCOS-LA RODA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	73	2	Completed				2007

<b>Name &amp; Location of Line:</b>		<b>CABRA-GUADALQUIVIR MEDIO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	2	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>E/S UDALLA DE L/PENAGOS-ABANTO</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>CONEXIÓN TRANSITORIA DE LAS L/SANTIPO.-GUILLE 1 Y COBR</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	1	Completed				2007

<b>Name &amp; Location of Line:</b>		<b>INTERCONEXIÓN BALEARES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	250	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>ENLACE ZAL CON ZONA FRANCA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>MODIF. BALBOA-F.PORTUGUESA</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2	2	Completed				2004
<b>Name &amp; Location of Line:</b>		<b>DPMT E/S ABANTO L/PENAGOS-GÜEÑES</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	1	4	Completed				2004



Country:

SWEDEN

**Name & Location of Line:** Nea - Jarpstrommen (Norway to the north of Sweden)

**Current:** Alternating Current

Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commissioning
400 kV	70km	1	Tendering		2007	2008	2009

**Name & Location of Line:** Dannebo - Finnbole (Fennoskan connection to Finland) central Sweden

**Current:** Direct Current

Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commissioning
500 kV	70km	1	Concession Process		Expected 2008		Foreseen 2010

**Name & Location of Line:** Alvesta - Hemsjo (South Sweden)

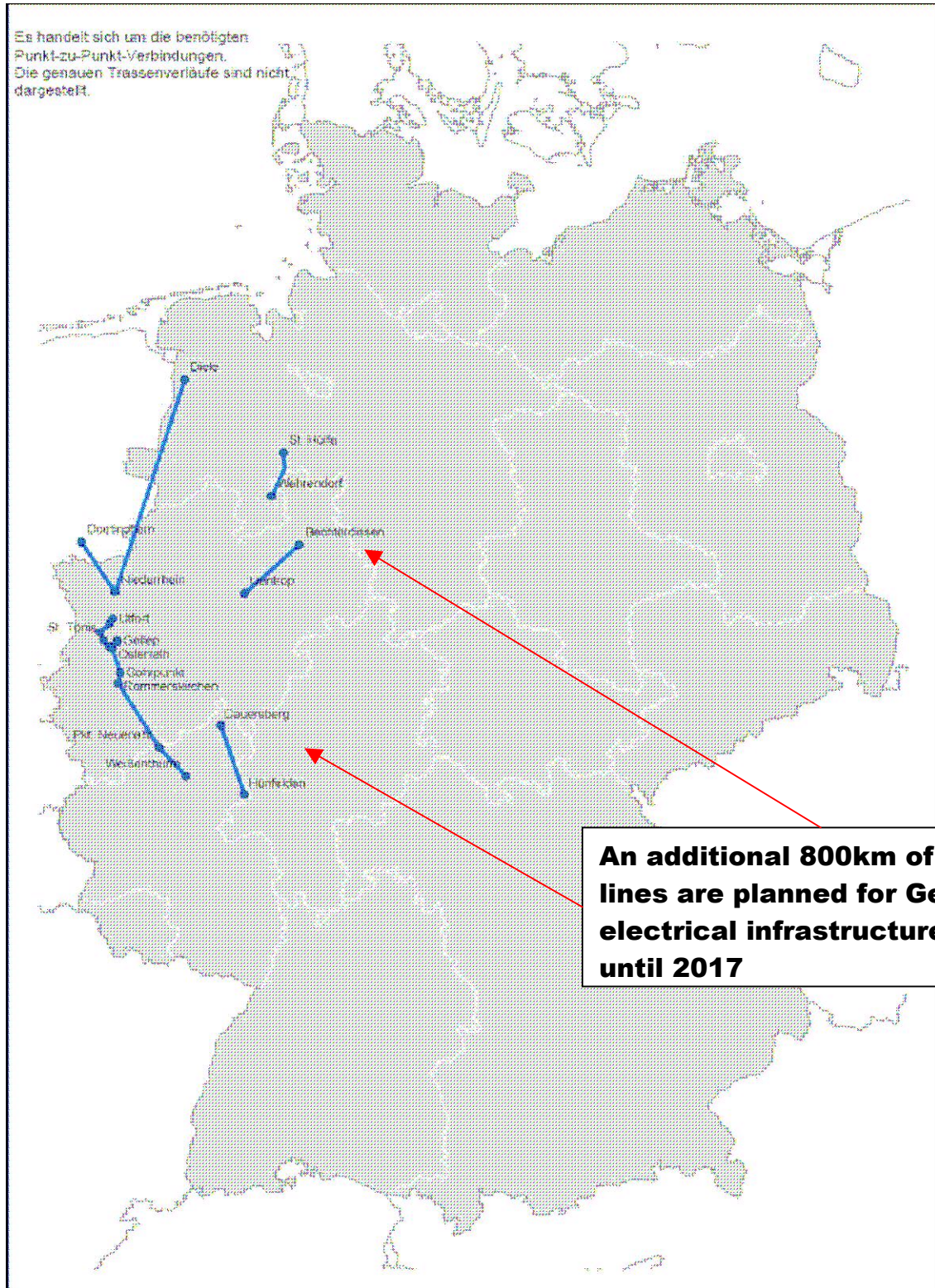
**Current:** Alternating Current

Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commissioning
400 kV	67km	1	In Operation				2001


<b>Name &amp; Location of Line:</b>		<b>Sydvast - Lanken</b>					
<b>Current:</b>		<b>Alternating Current</b>					
<b>Normal Operating Voltage of Line(kV)</b>	<b>Length of Line (km)</b>	<b>Number of Circuits</b>	<b>Status of Project</b>	<b>Date of Commencement of Permit / Consent process</b>	<b>Date of Recipet of Permit / Consent</b>	<b>Date of Commencement of Construction</b>	<b>Date or projected date of completion / commisioning</b>
400kV	180km	1	Planning Process				Foreseen 2013 - 2015

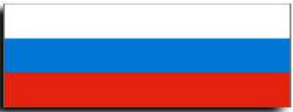


## GERMANY




**Appendix 4:- ESB International Survey Results: Non - European Community**

		Country: <span style="background-color: #cccccc;">New Zealand</span>					
Name & Location of Line:		Brownhill Rd - Whakamaru					
Current:		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	190km	2	Reviewing Tenders Ongoing	2005	Not Received	Foreseen 2008	Foreseen 2011


		<b>Country:</b> <span style="background-color: #cccccc;">RUSSIA</span>					
<b>Name &amp; Location of Line:</b>		<span style="background-color: #cccccc;">Kalininskaja AES - Belozerskaja (North - West Region of Russia)</span>					
<b>Current:</b>		<span style="background-color: #cccccc;">Alternating Current</span>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
750 kV	180km	1	Under Operation 2004				
<b>Name &amp; Location of Line:</b>		<span style="background-color: #cccccc;">Khabarovskaja - Hehtsir 2 (East Russia)</span>					
<b>Current:</b>		<span style="background-color: #cccccc;">Alternating Current</span>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	122km	1	Under Operation 2003				

<b>Name &amp; Location of Line:</b>		<b>Hehtsir 2 - Peimorskaja GRES (East Russia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	239km	1	Under Operation 2003				
<b>Name &amp; Location of Line:</b>		<b>Bureiskaja GES - Khabarovskaja (East Russia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	430km	1	Under Operation 2005				
<b>Name &amp; Location of Line:</b>		<b>Bureiskaja GES - Khabarovskaja 2. (East Russia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	422km	1	Under Operation 2005				

<b>Name &amp; Location of Line:</b>		<b>Dalnevostochnaja - Vladivostok (East of Russia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	95km	1	Under Operation 2007				
<b>Name &amp; Location of Line:</b>		<b>Severnaja - BAZ (Ural region of Russia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	200km	1	Under Operation 2007				
<b>Name &amp; Location of Line:</b>		<b>Kurgan - Kozirevo (South Ural region of Russia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	280km	1					Expected 2008
<b>Name &amp; Location of Line:</b>		<b>Frolovo - Shahti - Rostov, south region of Russia</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	354km	1					Expected 2008

		<b>Country:</b>					
		<b>SIBERIA</b>					
<b>Name &amp; Location of Line:</b>		<b>Oznachennoe - Aluminievaja</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	70km	1	In Operation 2005				
<b>Name &amp; Location of Line:</b>		<b>Oznachennoe - Abakanskaja</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	200km	1	In operation 2005				
<b>Name &amp; Location of Line:</b>		<b>Aluminievaja - Abakanskaja</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	140km	1	In operation 2005				

<b>Name &amp; Location of Line:</b>		<b>Zarja - Barabinsk</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	297	1	In operation 2002				
<b>Name &amp; Location of Line:</b>		<b>Petrovsk - Zabajkalsk - Chita</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	185km	1	In operation 2001				
<b>Name &amp; Location of Line:</b>		<b>Barabinsk - Tavrisheskaja</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	362km	1	In operation 2007				

		<b>Country:</b>					
		<b>USA</b>					
<b>Name &amp; Location of Line:</b>		<b>AEP I-765 PJM Project (West Virginia, Maryland &amp; Pennsylvania)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
765 kV	470km	1	Ongoing	2008			
<b>Name &amp; Location of Line:</b>		<b>AEP &amp; ITC 765 Michiigan Project</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
765 kV	1015	1	Ongoing	TBD	TBD	TBD	
<b>Name &amp; Location of Line:</b>		<b>Trans - Allegheny Intrerstate line</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	315	1	Ongoing	TBD	TBD	TBD	

<b>Name &amp; Location of Line:</b>		<b>Ameren - Prairie State IPP Interconnection</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
345 kV	70km	1	Certification Process	TBD	TBD	TBD	
<b>Name &amp; Location of Line:</b>		<b>American Transmission Company: Arrowhead Weston Project</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
345	353km	1	ISD 2008				
<b>Name &amp; Location of Line:</b>		<b>American Transmission Company: Gardner Park &amp; Morgan - Werner Projects</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
345 kV	80km	1	ISD 2009				

<b>Name &amp; Location of Line:</b>		<b>Arizona Public Service: Palo Verde Hub</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	175km	1	ISD portions 2009 - 2012		2007	2005	
<b>Name &amp; Location of Line:</b>		<b>Arizona Public Service: Transwest Express</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 Kv	1600	1	ISD 2015		2007	2005	
<b>Name &amp; Location of Line:</b>		<b>Dominion - Meadow Brook - Loudon (Virginia)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	340km	1	ISD 2011	2007			

<b>Name &amp; Location of Line:</b>		<b>Oncor Electric: Salado - Hutto</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
345 kV	165km	1	ISD 2010	2007	2007		
<b>Name &amp; Location of Line:</b>		<b>PATH Alleghney &amp; AEP - Wva &amp; Maryland</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
65 & 500 kV	470km	1	For Approval				
<b>Name &amp; Location of Line:</b>		<b>Sierre Pacific Resources: Eastern Nevada Intertie</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	470km	1	ISD 2011		2006		

<b>Name &amp; Location of Line:</b>		<b>Palo verde - Pinal West (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Construction				Proposed 2008
<b>Name &amp; Location of Line:</b>		<b>Pinal West - Browning (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Design Material Acquisition				Proposed 2011
<b>Name &amp; Location of Line:</b>		<b>Palo Verde - Sun Valley (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Design Material Acquisition				Proposed 2009

<b>Name &amp; Location of Line:</b>		<b>Sun Valley - TS9 (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2012

<b>Name &amp; Location of Line:</b>		<b>TS9 (Raceway) - Pinnacle Peak (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Design Material Acquisition				Proposed 2010

<b>Name &amp; Location of Line:</b>		<b>Gateway South (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV		2	In Sitting & Permitting				Proposed 2009

<b>Name &amp; Location of Line:</b>		<b>Navajo Transmission project (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			Rating Study Process				Proposed 2011

<b>Name &amp; Location of Line:</b>		<b>Palo Verde - North Gila II (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2012

<b>Name &amp; Location of Line:</b>		<b>Palo Verde - Devers II (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2011

<b>Name &amp; Location of Line:</b>		<b>Gateway South - Transwest Express (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2015

<b>Name &amp; Location of Line:</b>		<b>Inland Northern Lights (Western USA)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2013

<b>Name &amp; Location of Line:</b>		<b>Pinal South - Tortolita</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2011


<b>Name &amp; Location of Line:</b>		<b>Eastern Nevada Transmission Intertie</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Rating Study				Proposed 2011


<b>Name &amp; Location of Line:</b>		<b>Great Basin Energy Project</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Rating Study				Proposed 2012

<b>Name &amp; Location of Line:</b>		<b>Eastern Plains Transmission Project</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			In Sitting & Permitting				Proposed 2011

<b>Name &amp; Location of Line:</b>		<b>SunZia Southwest Transmission Project</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			Rating Study				Proposed 2012

<b>Name &amp; Location of Line:</b>		<b>High Plains Express Project</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV			Feasibility Studies				Foreseen 2016 - 2017

		<div>Country:</div> <div>VENEZUELA</div>					
Name & Location of Line:		Palital - Furrial no.2					
Current:		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	170km	1	Completed	1999	2000	2001	2003

		<b>Country:</b> SOUTH AFRICA					
<b>Name &amp; Location of Line:</b>		North East Grid: MINRV4-LULAM4					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	19.61km	1	Completed				2004
<b>Name &amp; Location of Line:</b>		North East Grid: LULAM4-PLUTO4					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	74.88km	1	Completed				2004
<b>Name &amp; Location of Line:</b>		Eastern Grid: ATHEN4-PEGSS4					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	193.05km	1	Completed				2004

<b>Name &amp; Location of Line:</b>		<b>Southern Grid: GRASS4-POSDN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	117km	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>North East Grid: LESED4-MERNS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	42.13km	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: WITKP4-LESED4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	94.17km	1	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>North East Grid: DINALD4-APOLL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	103km	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>North East Grid: DINALD4-BIGHR4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	53km	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MATMB4-WITKP4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	198.5km	1	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>Northern Grid: BIGHR4-MARANG4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	22.4km	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MIDAS4-MARANG4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	189.81km	1	Completed				2005
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MATMB4-MARANG4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	268km	1	Completed				2005

<b>Name &amp; Location of Line:</b>		<b>Western Grid: KOEBG4-STIKL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	56.72km	1	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>Western Grid: MULDR4-STIKL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	16.3km	1	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>North East Grid: ALPHA4-MAJUB4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	54km	1	Completed				2006

<b>Name &amp; Location of Line:</b>		<b>North East Grid: ALPHA4-TUTUK4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	6.4km	1	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>Western Grid: PALMT4-STIKL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	49.3km	2	Completed				2006
<b>Name &amp; Location of Line:</b>		<b>Western Grid: AUROR4-ANKERLI4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	81.5km	1	Completed				2007

<b>Name &amp; Location of Line:</b>		<b>Western Grid: KOEBG4-ANKERLI4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	12.3km	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>Western Grid: KOEBG4-ANKERLI4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	12.70km	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>Western Grid: GARIKWA4-PROTS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	10.22km	1	Completed				2007

<b>Name &amp; Location of Line:</b>		<b>Western Grid: GARIKWA4-PROTS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	10.22km	1	Completed				2007
<b>Name &amp; Location of Line:</b>		<b>Southern Grid: BETA4-DELPH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	408km	1	Ongoing				2007
<b>Name &amp; Location of Line:</b>		<b>Southern Grid: GRASS4-DEDISA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	7km	1	Ongoing				Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>North East Grid: DUVHA4-LESED4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	220km	1	Ongoing				Foreseen 2009
<b>Name &amp; Location of Line:</b>		<b>North East Grid: DUVHA4-VULCN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	40km	1	Ongoing				Foreseen 2009
<b>Name &amp; Location of Line:</b>		<b>North East Grid: KENDL4-ARNOT4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	120km	1	Ongoing				Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: MAJUB4-UMFLZ4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	200km	1	Ongoing				Foreseen 2009
<b>Name &amp; Location of Line:</b>		<b>North Western Grid: MERC4-PERSS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	220km	1	Ongoing				Foreseen 2009
<b>Name &amp; Location of Line:</b>		<b>Southern Grid: POSDN4-DEDISA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	125km	1	Ongoing				Foreseen 2009

<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: INVUB4-MELMOTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400kV	15km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: ATHEN4-MELMOTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	15km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Western Grid: ARIES4-NIEUWHP4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	100km	1	Ongoing				Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>Southern Grid: GRASS4-ALCAN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400kV	15km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: INVUB4-MELMOTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	15km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: ARDN4-EROS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	117km	1	Ongoing				Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>North Western Grid: MERC4-FERRM4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	390km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Southern Grid: DEDISA4-ALCAN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	7km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: UMFLZ4-MELMOTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	80km	1	Ongoing				Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>Western Grid: ACAC4-PHILP4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	12.15km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: UMFLZ4-MELMOTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	110km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: EROS4-UMTATA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	167km	1	Ongoing				Foreseen 2010

<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: UMFLZ4-MELMOTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	106km	1	Ongoing				Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>North East Grid: DINALD4-PHOEBUS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	20km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>North East Grid: APOLL4-PHOEBUS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	85km	1	Ongoing				Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: ARDN4-VENUS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	130km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>Western Grid: MULDR4-OMEGA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	30km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>North East Grid: MERCR4-VRYBURG4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	200km	1	Ongoing				Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: MAJUB4-VENUS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	220km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>North Western Grid: FERRM4-VRYBURG4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	200km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>North East Grid: DUVHA4-BRAVO4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	60.7km	1	Ongoing				Foreseen 2011

<b>Name &amp; Location of Line:</b>		<b>North East Grid: HENDR4-PRAIR_B4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	80km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>North East Grid: BRAVO4-MINRV4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	75km	1	Ongoing				Foreseen 2011
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: DINALD4-SPITS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	160km	1	Ongoing				Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: VENUS4-INGULA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	97km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: WITKP4-TABOR4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	94.17km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: MAJUB4-INGULA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	141km	1	Ongoing				Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Northern Grid: DINALD4-SPITS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	160km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MEDUPI4-SPITS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	150km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>North East Grid: BRAVO4-LULAM4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	95km	1	Ongoing				Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MEDUPI4-MMBULA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	80km	1	Ongoing				Foreseen 2012
			Ongoing				
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MATMB4-MOGWASE4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	200km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MATMB4-MOKOPN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	150km	1	Ongoing				Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MEDUPI4-SPITS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	180km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MOGWASE4-MIDAS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	170km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MOKOPN4-WITKP4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	50km	1	Ongoing				Foreseen 2012


<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MMBULA4-PHOKJ4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	185km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>North East Grid: PRAIR_B4-MARTH4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	90km	1	Ongoing				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MMBULA4-MOKOPN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	150km	1	Ongoing				Foreseen 2013

<b>Name &amp; Location of Line:</b>		<b>Central Grid: BRAVO4-KYALAMI4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	80km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>North East Grid: BRAVO4-APOLL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	88.4km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>North East Grid: BRAVO4-KENDL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	15km	1	Ongoing				Foreseen 2013

<b>Name &amp; Location of Line:</b>		<b>North East Grid: BRAVO4-VULCN4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	100km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>Western Grid: AGGNS4-HELS4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	200km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MEDUPI4-MARANG4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	270km	1	Ongoing				Foreseen 2013

<b>Name &amp; Location of Line:</b>		<b>Western Grid: PHILP4-STIKL4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	25km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>Central Grid: LULAM4-KYALAMI4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	15km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>Eastern Grid: VENUS4-INGULA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	97km	1	Ongoing				Foreseen 2013

<b>Name &amp; Location of Line:</b>		<b>North East Grid: DINALD4-LOMOND4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	20km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>Northern Grid: MEDUPI4-MOGWASE4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	200km	1	Ongoing				Foreseen 2013
<b>Name &amp; Location of Line:</b>		<b>Southern Grid: NEPTN4-UMTATA4</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
400 kV	180km	1	Ongoing				Foreseen 2013

		<b>Country:</b> <span style="border: 1px solid black; padding: 2px;">ISRAEL</span>					
<b>Name &amp; Location of Line:</b>		UNKNOWN					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	20km	2	In Operation				2000
<b>Name &amp; Location of Line:</b>		UNKNOWN					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	17km	1	In Operation				2000
<b>Name &amp; Location of Line:</b>		UNKNOWN					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	7.5km	2	In Operation				2000

<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	22.5km	2	In Operation				2000
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	16km	2	In Operation				2001
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	2km	2	In Operation				2001


<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	37km	2	In Operation				2001
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	5km	2	In Operation				2004
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	5km	2	In Operation				2004

<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	16km	2	Ongoing In Planning				Foreseen 2009
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	33km	2	Ongoing In Planning				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	80km	2	Ongoing In Planning				Foreseen 2012

<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	35km	2	Ongoing In Planning				Foreseen 2012
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	95km	2	Ongoing In Planning				Foreseen 2014
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	20km	2	Ongoing In Planning				Foreseen 2015

<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	29km	2	Ongoing In Planning				Foreseen 2015
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	24km	2	Ongoing In Planning				Foreseen 2017
<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	33km	2	Ongoing In Planning				Foreseen 2018

<b>Name &amp; Location of Line:</b>		<b>UNKNOWN</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
380kV - 500kV	10km	2	Ongoing In Planning				Foreseen 2020

		<b>Country:</b> CANADA					
<b>Name &amp; Location of Line:</b>		Biople III Transmission line from Conawapa (Northern Manitoba) to Winnipeg, Canada					
<b>Current:</b>		Direct Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	1340km	1 - Biopole	Initiation Process	2008	Foreseen 2012	Foreseen 2013	Foreseen 2017
<b>Name &amp; Location of Line:</b>		Bruce GS - Milton TS					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
500 kV	182km	2	Seeking Approval	2007	Foreseen 2009	Foreseen 2009	Foreseen 2011
<b>Name &amp; Location of Line:</b>		Micoua - Touloustouc (Province of Quebec / North-East region)					
<b>Current:</b>		Alternating Current					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
315kV	56km	2	Completed	2002	2003	2004	2004

<b>Name &amp; Location of Line:</b>		<b>Eastmain-1 - Nemiscau (Province of Quebec / James bay territory)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
315 kV	59km	2	Completed	2004	2004	2005	2006
<b>Name &amp; Location of Line:</b>		<b>Chenier - Outaouais 9Province of Quebec / West region)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
315 kV	113km	2	Awaiting Permits	2007	Foreseen 2008	Foreseen 2009	Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Jacques - Cartier / Laurentides (Province of Quebec / Quebec City area)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
315 kV	14km	2	Awaiting Permits	Foreseen 2008	Foreseen 2009	Foreseen 2010	Foreseen 2010
<b>Name &amp; Location of Line:</b>		<b>Eastmain-1 - la Sarcelle (Province of Quebec / James Bay Territory)</b>					
<b>Current:</b>		<b>Alternating Current</b>					
Normal Operating Voltage of Line(kV)	Length of Line (km)	Number of Circuits	Status of Project	Date of Commencement of Permit / Consent process	Date of Recipet of Permit / Consent	Date of Commencement of Construction	Date or projected date of completion / commisioning
315 kV	102km	1	Awaiting Permits	Foreseen 2008	Foreseen 2010	Foreseen 2011	Foreseen 2011