
TRANS-EUROPEAN ENERGY NETWORKS

POLICY AND ACTIONS OF THE EUROPEAN COMMUNITY

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EC LEGISLATION

■ **THE TREATY ESTABLISHING THE EUROPEAN COMMUNITY**

(Title XII comprising Articles 129B, 129C and 129D)

- Article 129B sets out the objectives of Community action:
 - contributing to the establishment and development of trans-European networks in the areas of transport, telecommunications and energy infrastructures,
 - aiming at promoting the interconnection and interoperability of national networks as well as access to such networks,
 - taking account in particular of the need to link island, landlocked and peripheral regions with the central regions of the Community.
- Article 129C refers to the means for implementing the above objectives, in particular the establishing of guidelines, and community financial support.
- Finally, article 129D sets out the procedures for carrying out these measures.

■ **THE GUIDELINES FOR THE DEVELOPMENT OF ENERGY TENS** (SEE PAGES 5, 6 AND 7)

- Objectives, priorities and identification of projects of common interest:
Decision n° 1254/96/EC of the European Parliament and of the Council of 5 June 1996 (O.J. L 161 of 29.6.1996), amended by Decision n° 1047/EC of the European Parliament and the Council of 29 May 1997 (O.J. L 152 of 11.6.1997).
- Creation of a favorable context for the development of energy TENS:
Council Decision n° 96/391/EC of 28 March 1996 (O.J. L 161 of 29.6.1996).

■ **THE RULES FOR GRANTING FINANCIAL SUPPORT IN THE FIELD OF TENS** (SEE PAGES 9 AND 10)

Council Regulation (EC) N° 2236/95 of 18 September 1995 (O.J. L 228 of 23.9.1995).

EC GUIDELINES

In accordance with Article 129C of the Treaty, the European Community has established a series of guidelines on trans-European Energy Networks covering:

- OBJECTIVES AND PRIORITIES
- LINES OF ACTION, INCLUDING THE IDENTIFICATION OF PROJECTS OF COMMON INTEREST

These guidelines concern the main transportation networks for electricity and natural gas

- ELECTRICITY NETWORKS
 - high voltage lines
 - submarine links
 - protection, monitoring and control systems
- NATURAL GAS NETWORKS
 - high pressure gas pipelines
 - underground storage facilities
 - reception, storage and regasification facilities for liquified natural gas (LNG)
 - protection, monitoring and control systems

Distribution networks are not covered by the guidelines for trans-European Energy Networks.

OBJECTIVES

The aim of Community action for the development of Energy TENs is to contribute to:

- effective operation of the Internal Market in general, and of the Internal Energy Market in particular.
- strengthening Economic and Social Cohesion by reducing the isolation of the less-favoured regions of the Community.
- reinforcing Security of Energy Supply.

PRIORITIES

Community action for the development of Energy TENs addresses the following priorities:

FOR ELECTRICITY

- Connection of isolated networks
- Improvement of the interconnections between Member States
- Improvement of internal connections within the Member States associated with improvement of the interconnections between themselves
- Establishment or improvement of interconnections with third countries

FOR NATURAL GAS

- Introduction of natural gas into new regions
- Connection of isolated or separate gas networks
- Increasing transport, reception and storage capacities for liquefied natural gas (LNG); increasing underground storage capacity
- Construction of new delivery pipelines or upgrading of pipeline capacity

IDENTIFICATION OF PROJECTS OF COMMON INTEREST

A project may be of common interest if it:

- corresponds to the objectives and priorities
- displays potential economic viability

The inclusion of a project in the list of projects of common interest is without prejudice to the assessment of its environmental impact.

The projects of common interest identified to date are listed on pages 16,17 and 18, for electricity, and on pages 30, 31 and 32 for natural gas.

CREATION OF A FAVOURABLE CONTEXT

The European Community:

- will promote technical cooperation projects between the operators responsible for the management, monitoring and control of the trans-European energy networks;

- will promote cooperation between Member States with a view to easing authorisation procedures for projects on trans-European energy networks in order to reduce delays;

- can provide financial support for projects of common interest from the budgetary resources earmarked for the TEN policy, under the rules defined by the relevant Council Regulation (see following pages) and

- will take account of the projects of common interest in the financial interventions by its Funds, instruments and programmes.

In implementing the above measures, the Commission is assisted by a Committee composed of the representatives of the Member States and chaired by the representative of the Commission.

EC FINANCIAL SUPPORT

FINANCIAL INSTRUMENTS

There are several European Community financial instruments which may come into play where appropriate and in accordance with the specific rules governing each of them.

■ THE TEN BUDGET LINE

This budget line is managed in accordance with Council Regulation (EC) N°2236/95 (see details on pages 9 and 10).

■ THE STRUCTURAL FUNDS

The European Regional Development Fund (ERDF) contributes to the financing of the trans-European Energy Networks because of their role in the development of eligible regions.

Funds are allocated from:

- the Community Support Frameworks (CSF) and
- the Community initiatives (REGEN, INTERREG II).

■ THE PHARE, TACIS AND MEDA PROGRAMMES

So far (July 1997), the PHARE and TACIS programmes have financed several East-West and regional interconnection studies relating to energy networks in or linked to eligible countries (see section on financing of energy network projects in third countries on page 13).

■ EUROPEAN INVESTMENT BANK (EIB) LOANS

The EIB finances, usually by meeting up to 50% of the total cost, many TEN Energy projects with the aim of contributing to the Community's TEN policy.

■ EUROPEAN COAL AND STEEL COMMUNITY (ECSC) LOANS

Some trans-European Energy networks consuming Community steel have benefited from ECSC loans.

■ EUROPEAN INVESTMENT FUND (EIF) LOAN GUARANTEES

The main purpose of the EIF (funded 40% by the EIB, 30% by the Commission and the remaining 30% by banks and other financial institutions) is to grant guarantees for loans concerning TEN projects.

The EU financial support decided so far (July 1997) for the different projects of common interest is indicated on pages 20, 22, 24 and 26 for electricity, and on pages 34, 36 and 38 for natural gas.

RULES FOR GRANTING FINANCIAL SUPPORT FROM THE TEN BUDGET LINE

RESOURCES - FORMS OF AID - RESTRICTIONS

RESOURCES OF THE ENERGY TEN BUDGET LINE

- For energy networks projects: A total of 112 MECU is planned for the period 1995-99.
- An amount of 29 MECU has already been committed so far (September 1997), for the co-financing of feasibility studies.

FORMS OF AID FOR ENERGY TEN PROJECTS

- Generally, co-financing of feasibility studies
- In duly justified cases, support to investment by means of interest-rate subsidies, contributions to fees for guarantees for loans, or direct grants

RESTRICTIONS

- Aid to feasibility studies limited in general to a maximum of 50% of the cost
- Maximum period of interest-rate subsidy shall not generally exceed 5 years
- Total amount of financial support from the TEN budget line shall not exceed 10% of the total investment cost
- EC financial support should not distort competition

RULES FOR GRANTING FINANCIAL SUPPORT FROM THE TEN BUDGET LINE

(continued)

ELIGIBILITY AND SELECTION

ELIGIBILITY

- The projects of common interest identified by the Community guidelines on trans-European Energy Networks

SELECTION CRITERIA

- The degree of contribution to the objectives and priorities
- Projects should be potentially economically viable but have insufficient financial profitability
- The maturity of the project
- The stimulative effect of the Community support
- The soundness of the financial package
- The socio-economic effects
- The environmental consequences

SUBMISSION OF APPLICATIONS

Applications are submitted to the Commission:

- through the intermediary of the Member State concerned, or
- by the body directly concerned, with the agreement of the Member State

APPROVAL OF REQUESTS

By the Commission, assisted by a Committee of representatives of the Member States.

THE EXTERNAL DIMENSION

The Commission has presented to the European Parliament and the Council of Ministers a communication dealing with the external dimension of the Energy TENs (Ref. COM(97) 125 final of 26.3.1997).

RELEVANCE OF ENERGY NETWORKS IN THIRD COUNTRIES

■ TO THE EUROPEAN COMMUNITY:

- ▶ Access to energy resources and diversification of supply
- ▶ Downward pressure on energy prices through competition
- ▶ Integration of the candidate third countries
- ▶ Trade and industrial cooperation
- ▶ Social and economic cohesion in a wider geographical area

■ TO THE THIRD COUNTRIES CONCERNED:

- ▶ Access to energy resources and diversification of supply
- ▶ Improved operation of energy networks
- ▶ Revenues from exports of energy products and services
- ▶ Contribution to political stability and economic reforms

PRESENT SITUATION OF ENERGY INTERCONNECTIONS WITH THIRD COUNTRIES

■ **ELECTRICITY**

▶ EXISTING INTERCONNECTIONS:

- Norway with Denmark and Sweden
- Finland with Russia
- CENTREL with UCPTE
- Greece with some neighbouring countries

▶ MISSING LINKS:

- Baltic States with NORDEL and with UCPTE/CENTREL
- Balkan countries with UCPTE/CENTREL
- Eastern European countries with extended UCPTE
- Mediterranean countries with extended UCPTE

■ **NATURAL GAS**

▶ EXISTING INTERCONNECTIONS:

- Finland with Russia
- Western Europe with Russia (mainly through Ukraine and Slovakia)
- Greece with Russia (through Ukraine, Romania and Bulgaria)
- Italy and Spain/Portugal with Algeria
- LNG terminals in the EC (receiving mainly Algerian gas)

▶ MISSING LINKS:

- Baltic States with Nordic and Central Europe
- Balkan countries with Central Europe and with Mediterranean basin
- Europe with Central Asia, by a Southern route

ENERGY NETWORK PROJECTS IN THIRD COUNTRIES

■ PROJECTS OF MUTUAL INTEREST

- ▶ Those projects of common interest involving at the same time at least one EC Member State and one third country.
- ▶ Identification: done under the guidelines decisions.
(see descriptions and maps on pages 28 and 29 for electricity networks and pages 40 and 41 for natural gas networks).

■ PROJECTS OF REGIONAL INTEREST

- ▶ Energy network projects being of interest to two or more third countries.
- ▶ Identification: ongoing
(through the various studies, cooperation groups and task forces set up at the levels of the industries or of the Governments, with support from the EC programmes SYNERGY, PHARE, TACIS and MEDA).
- ▶ Areas concerned: Baltic, Central Europe, Balkans, Black Sea, Central Asia and Mediterranean.

FINANCING OF ENERGY NETWORK PROJECTS IN THIRD COUNTRIES

■ FINANCING OF STUDIES

Aid for the financing of feasibility and other studies may come from:

- ▶ the TEN programme budget line, for projects of *mutual interest*;
- ▶ the PHARE, TACIS, MEDA programmes, for projects of *regional interest*.

■ FINANCING OF INVESTMENT

- ▶ Projects have to show potential economic viability
- ▶ In general, project financing is for the network operators using their own or borrowed funds
- ▶ Additional financial support may come from:
 - The PHARE programme: aid for projects having strong structural/regional impact
 - The EIB for loans and the EIF for loan guarantees
 - Other international financial institutions such as the EBRD and the World Bank

CREATING A FAVOURABLE INVESTMENT CLIMATE IN THIRD COUNTRIES

■ IMPLEMENTATION OF THE ENERGY CHARTER TREATY

- ▶ Rules for investment in the energy sector
- ▶ Guaranteeing investment security
- ▶ Securing transit on energy networks

■ IMPLEMENTATION OF COHERENT ENERGY POLICIES

- ▶ Considerations for network operators:
 - Level of state involvement
 - Level of unbundling of activities
 - Rules for access to the network
- ▶ Introduction of energy tariffs reflecting costs
- ▶ Promotion of energy efficiency

■ IMPLEMENTATION OF OTHER POLICIES AND MEASURES AFFECTING ENERGY

- ▶ Taxation of energy products
- ▶ Environmental rules for energy products and facilities
- ▶ Administrative authorisations for the construction of energy infrastructure

THE PROJECTS OF COMMON INTEREST

DESCRIPTIONS AND MAPS

■ **ELECTRICITY**

LIST OF PROJECTS OF COMMON INTEREST AND GENERAL MAP	16-19
NORTH - WEST EUROPE	20-21
NORTH - EAST EUROPE	22-23
SOUTH - WEST EUROPE	24-25
SOUTH - EAST EUROPE	26-27
EXTERNAL DIMENSION: <i>(mutual interest projects)</i>	28-29

■ **NATURAL GAS**

LIST OF PROJECTS OF COMMON INTEREST AND GENERAL MAP	30-33
GAS PIPELINES: EUROPE (WEST)	34-35
GAS PIPELINES: EUROPE (EAST)	36-37
LNG TERMINALS & STORAGE FACILITIES	38-39
EXTERNAL DIMENSION: <i>(mutual interest projects)</i>	40-41

ELECTRICITY NETWORKS: LIST OF PROJECTS OF COMMON INTEREST

a. Connection of isolated electricity networks to European interconnected networks

- a1*** **UNITED KINGDOM** Connection by submarine cable of Northern Ireland to Scotland.
- a4*** **GREECE - ITALY** Connection by submarine cable of Greek network to Italian network through North-Western Greece and South-Eastern Italy.
- a7*** **UNITED KINGDOM** Connection by submarine cable of the Isle of Man.

b. Development of electricity interconnections between Member States

- b1*** **GERMANY - DENMARK** Connection by submarine cable between the German network (UCPTE) and Denmark's Eastern network (NORDEL).
- b4*** **FRANCE - BELGIUM** Completion of connection between the two countries' networks through North-Eastern France and Southern Belgium.
- b5*** **FRANCE - GERMANY** Strengthening of the connections between the two countries.
- b6*** **FRANCE - ITALY** Connection between the two countries' networks through South-Eastern France and North-Western Italy.
- b7*** **FRANCE - SPAIN** Land connection between the two countries' networks through South-Western France and Northern Spain.
- b9*** **BELGIUM - LUXEMBOURG** Connection between the two countries' networks.
- b10*** **SPAIN - PORTUGAL** Strengthening and completion of connections between the two countries through the regions of Northern Portugal and North-Western Spain.
- b10(a)*** **SPAIN - PORTUGAL** New connection between the two countries through the Southern region of Portugal and the South-West of Spain.
- b11*** **FINLAND - SWEDEN** Strengthening interconnections North of the Gulf of Bothnia.
- b12*** **AUSTRIA - ITALY** Strengthening connections between the North of Italy and the Austrian network.
- b13*** **IRELAND - UNITED KINGDOM** Strengthening of connections between Ireland and Northern Ireland.
(*N. Ireland*)

- b14*** **AUSTRIA - GERMANY** Strengthening of the connections between the two countries.
- b15*** **THE NETHERLANDS - UNITED KINGDOM** Connection by submarine cable between South-East England and Central Netherlands.

c. Development of internal electricity connections necessary to make the best use of interconnections between Member States

- c2*** **DENMARK** Connections by submarine cable between the country's Western (UCPTE) and Eastern (NORDEL) networks.
- c3*** **THE NETHERLANDS** Strengthening connections in the North-East of the country.
- c4*** **FRANCE** Strengthening connections in the North-East of the country.
- c5*** **ITALY** Strengthening and developing connections on the East-West axis in the North of the country and on the North-South axis.
- c5(a)*** **ITALY** Strengthening and development of connections on the East-West axis in the North-West of the country and on the North-South axis in the Centre of the country.
- c6*** **SPAIN** Strengthening and developing connections in the regions in the North of the country and in the regions along the Mediterranean axis.
- c7*** **PORTUGAL** Strengthening connections necessary for interconnections with Spain in the North and Centre of the country.
- c8*** **GREECE** Strengthening connections on the East-West axis in the North of the country.
- c9*** **IRELAND** Strengthening of connections in the North-West of the country.
- c10*** **SPAIN** Strengthening and development of connections in the North-East and West of the country, in particular to connect to the network production capacities of electricity generated from wind-power.
- c11*** **SWEDEN** Strengthening and development of internal connections.
- c12*** **GERMANY** Development of connections in the North of the country.

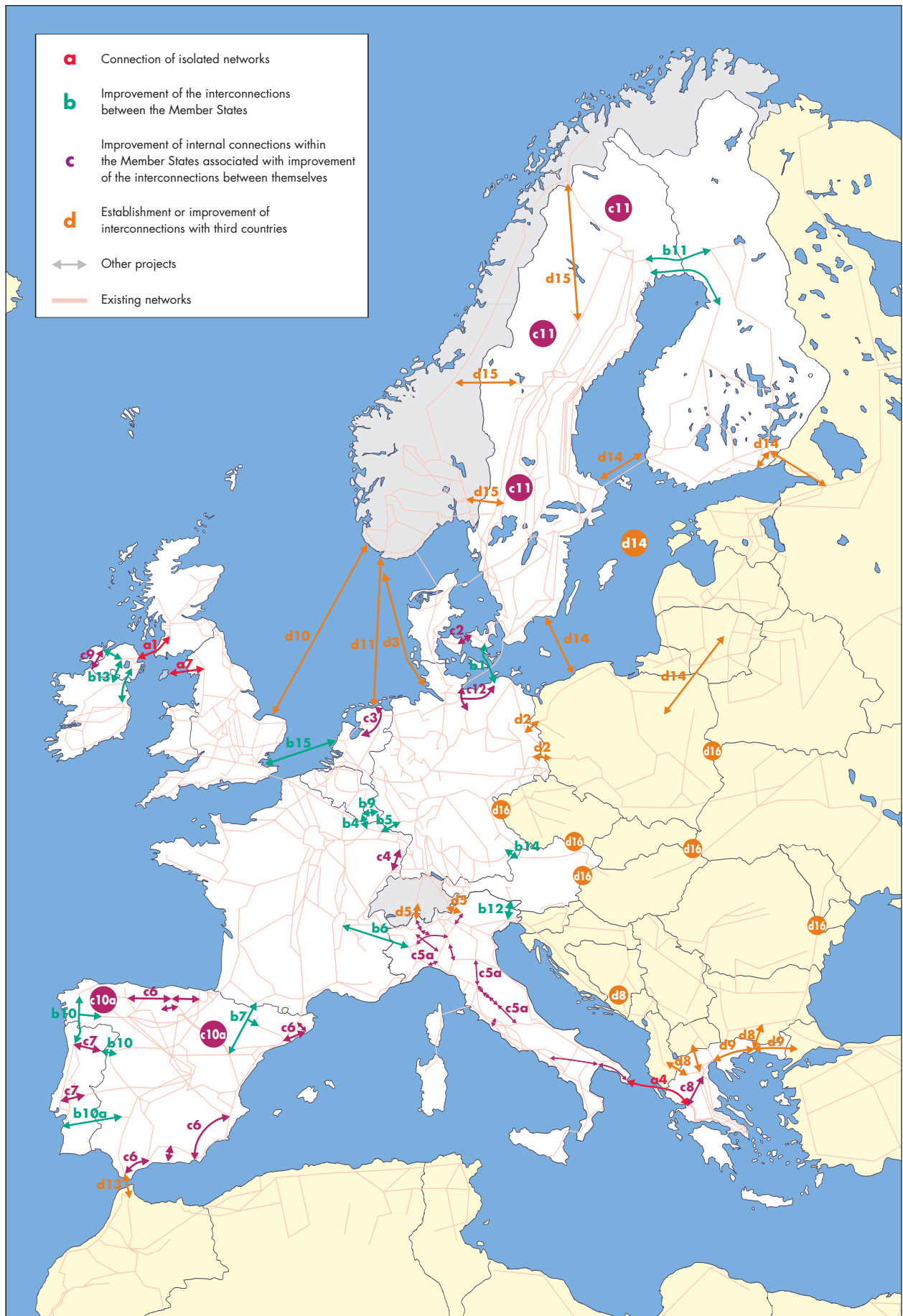
ELECTRICITY NETWORKS: LIST OF PROJECTS OF COMMON INTEREST

(continued)

d. Development of electricity interconnections with third countries in Europe and the Mediterranean Region helping to improve the reliability, security and supply of Community electricity networks

- d2* GERMANY - POLAND Strengthening of the connections between the two countries.
- d3* GERMANY - NORWAY Connection by submarine cable between Northern Germany (UCPTE) and Southern Norway (NORDEL).
- d5* ITALY - SWITZERLAND Strengthening connections between Northern Italy and Switzerland.
- d8* GREECE - BALKAN COUNTRIES Strengthening of connections between Greece and, respectively, Albania, Bulgaria and former Yugoslavia, including the restoration of the connections with the North of former Yugoslavia and the UCPTE network.
- d9* GREECE - TURKEY Connections between the two countries through North-Eastern Greece.
- d10* UNITED KINGDOM - NORWAY Connection by submarine cable between North-East/East England and Southern Norway (NORDEL).
- d11* THE NETHERLANDS - NORWAY Connection by submarine cable between the North-Eastern Netherlands (UCPTE) and Southern Norway (NORDEL).
- d13* SPAIN - MOROCCO Connection by submarine cable between Southern Spain and the Moroccan network.
- d14* BALTIC RING: GERMANY - POLAND - RUSSIA - ESTONIA - LATVIA - LITHUANIA - SWEDEN - FINLAND - DENMARK - BELARUS Strengthening and developing connections between these countries' networks by overground and/or submarine cables.
- d15* SWEDEN - NORWAY Strengthening of the connections between the two countries.
- d16* EU - BELARUS - RUSSIA - UKRAINE Development of connections and interface between the (extended) UCPTE network and the networks of third countries in Eastern Europe, including the relocation of the HVDC conversion stations operating previously between Austria and Hungary, Austria and the Czech Republic and Germany and the Czech Republic.

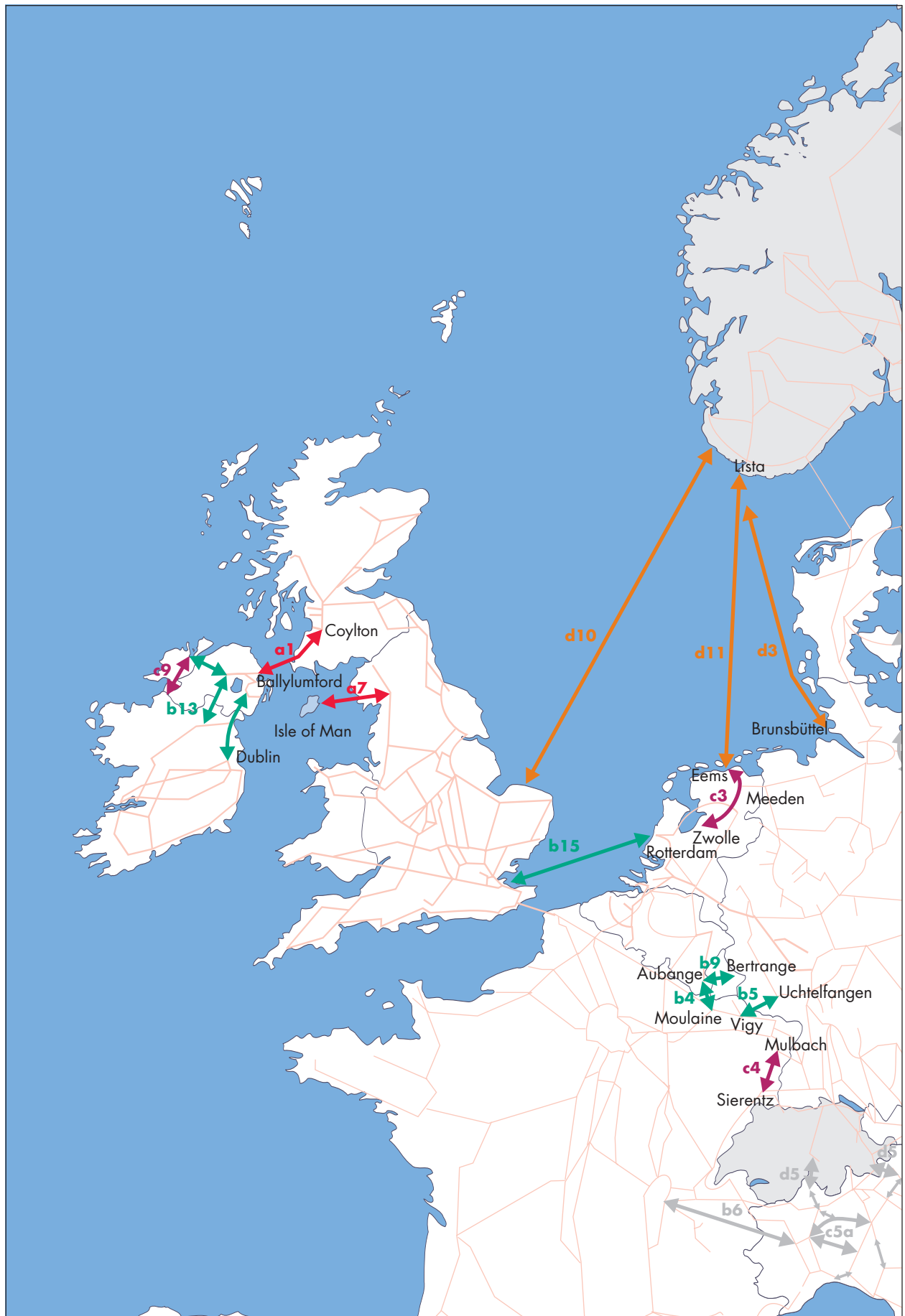
ELECTRICITY NETWORKS: GENERAL MAP



TRANS-EUROPEAN ENERGY NETWORKS: POLICY AND ACTIONS OF THE EC

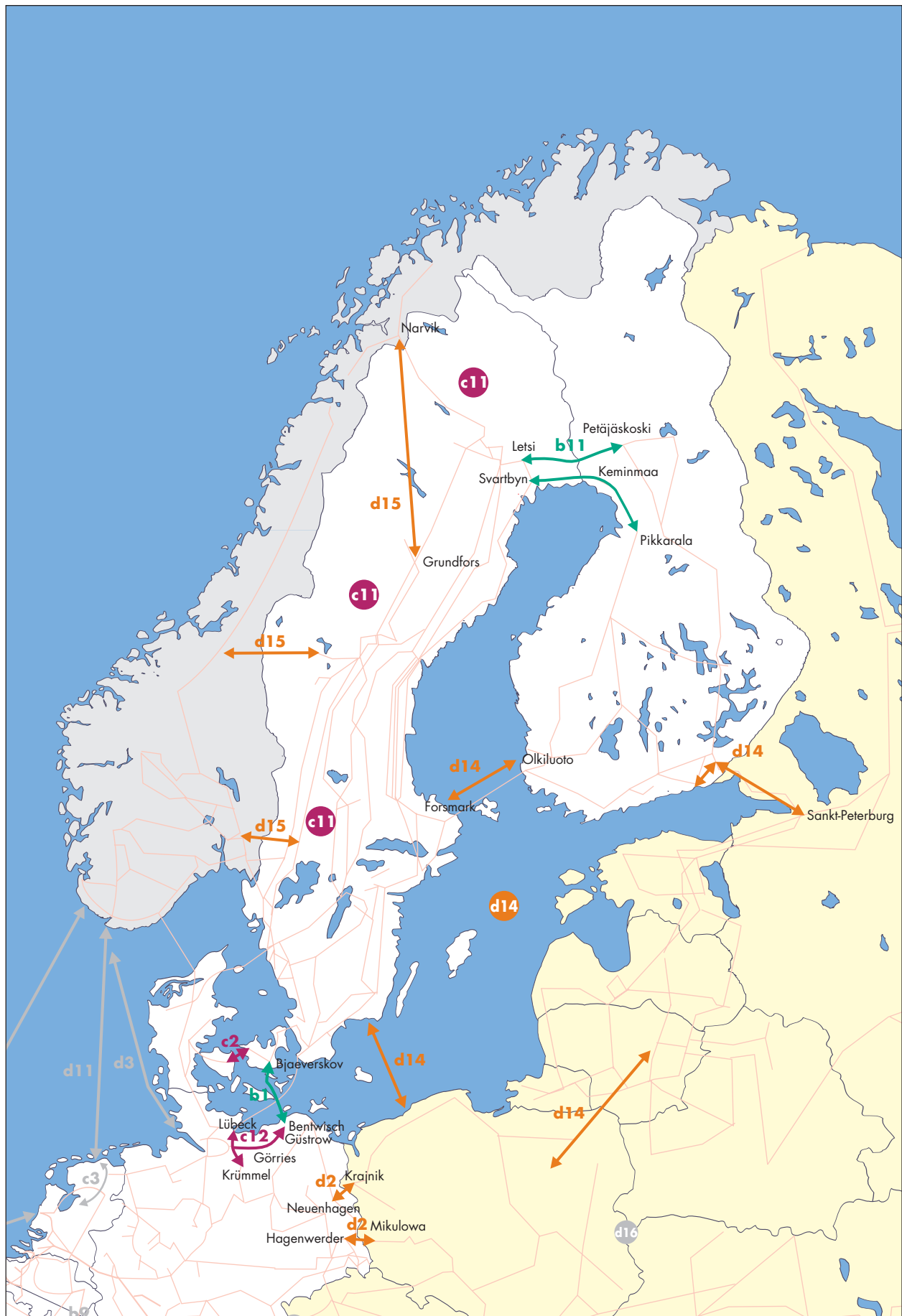
SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p>a1 <u>UNITED KINGDOM</u> Island Magee - Coylton link.</p> <p>a7 <u>UNITED KINGDOM</u> North-West England - Isle of Man link.</p>	<p>Authorisation procedures. Commissioning: 2000. CSF: 81 MECU.</p> <p>Feasibility studies and seabed survey. Commissioning: 1999. TEN line: 1997 decision for co-financing of studies.</p>
<p>b4 <u>FRANCE - BELGIUM</u> Moulaine - Aubange line.</p> <p>b5 <u>FRANCE - GERMANY</u> Vigy (FR) - Marlenheim (FR) - Uchtelfangen (DE) line.</p> <p>b9 <u>BELGIUM-LUXEMBOURG</u> Aubange - Bertrange line.</p> <p>b13 <u>IRELAND - UNITED KINGDOM</u> (N. IRELAND) Specification not yet defined.</p> <p>b15 <u>THE NETHERLANDS - UNITED KINGDOM</u> Rotterdam area - South-eastern England link.</p>	<p>Authorisation procedures. Commissioning: 1999.</p> <p>Authorisation procedures. Commissioning: 1999</p> <p>Authorisation procedures. Commissioning: 2000.</p> <p>Feasibility studies. Commissioning: after 2000 TEN line: 1997 decision for co-financing of studies.</p> <p>Feasibility studies. Seabed survey in 1998. Commissioning: after 2000. TEN line: 1997 decision for co-financing of studies.</p>
<p>c3 <u>THE NETHERLANDS</u> Zwolle - Meeden - Eemshaven line.</p> <p>c4 <u>FRANCE</u> Sierrentz - Mulbach line.</p> <p>c9 <u>IRELAND</u> Connections in the county of Donegal.</p>	<p>In operation since 1996.</p> <p>Authorisation procedures. Commissioning: 1999.</p> <p>Feasibility studies. Commissioning: after 2000.</p>
<p>d3 <u>GERMANY - NORWAY</u> Brunsbüttel - Southern Norway link.</p> <p>d10 <u>UNITED KINGDOM - NORWAY</u> Specification not yet defined.</p> <p>d11 <u>THE NETHERLANDS - NORWAY</u> Eemshaven - Lista link.</p>	<p>Authorisation procedures and feasibility studies. Commissioning: 2003.</p> <p>Feasibility studies. Seabed survey in 1998. Commissioning: 2004. TEN line: 1997 decision for co-financing of studies.</p> <p>The "NorNed cable" project. Feasibility studies and seabed survey. Commissioning: 2001. TEN line: 1996 decision for co-financing of studies.</p>

ELECTRICITY NETWORKS: NORTH-WEST EUROPE



SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p><u>b1 GERMANY - DENMARK</u> Bjæverskov - Bentwisch link.</p> <p><u>b11 FINLAND - SWEDEN</u> Petäjäsoski (FIN) - Letsi (S) line. Pikkarala (FIN) - Keminmaa (FIN) - Svartbyn (S) line.</p>	<p>In operation since 1996.</p> <p>Increasing of the transmission capacity of these lines through the installation of compensation devices. Studies under finalisation. Commissioning: 1997. TEN line: 1995 decision for co-financing of studies.</p>
<p><u>c2 DENMARK</u> Fyn - Sjælland.</p> <p><u>c11 SWEDEN</u> Connections in Northern Sweden. Connections in Central Sweden. Connections in Southern Sweden.</p> <p><u>c12 GERMANY</u> Lübeck/Siems - Görries - Güstrow line. Lübeck/Siems - Krümmel line.</p>	<p>Project declared as "priority project" at the Essen Summit (December 1994). Project decided. Financing of the project not finalized. Commissioning: (1997) postponed.</p> <p>Feasibility studies. Feasibility studies.</p> <p>Authorisation procedures. Some sections under construction. Görries-Güstrow: commissioned in 1996. Commissioning of the complete lines: 1998.</p>
<p><u>d2 GERMANY - POLAND</u> Hagenwerder - Mikulowa line. Neuenhagen (DE) - Vierraden (DE) - Krajnik (PL) line.</p> <p><u>d14 BALTIC RING: GERMANY - POLAND - RUSSIA - ESTONIA - LATVIA - LITHUANIA - SWEDEN - FINLAND - DENMARK - BELARUS</u> Southern Finland - Vyborg (Russia) - Saint Petersburg (Russia) link.</p> <p>Sweden - Finland link (through submarine cable).</p> <p>Sweden - Poland link (through submarine cable).</p> <p>Germany - Poland - Lithuania - Belarus - Russia (East-West High Power Link).</p> <p>Poland - Lithuania link.</p> <p>Other connections: specification not yet defined.</p> <p><u>d15 SWEDEN - NORWAY</u> Grundfors - Narvik line. Mid Sweden - Mid Norway South-West Sweden - Oslo region line.</p>	<p>Feasibility studies. Commissioning: 1998. Feasibility studies. Commissioning: 2000.</p> <p>An overall feasibility study for the Baltic Ring projects is ongoing. TEN line: 1995 decision for co-financing of studies.</p> <p>In operation. Feasibility studies for increasing the capacity. TEN line: 1996 decision for co-financing of studies EIF loan guarantee: requested.</p> <p>In operation. Feasibility studies for increasing the utilisation of the existing link. TEN line: 1996 decision for co-financing of studies.</p> <p>Feasibility studies. TEN line: 1995 decision for co-financing of studies.</p> <p>Feasibility studies. TEN line: 1996 decision for co-financing of studies.</p> <p>Feasibility studies. TEN line: 1995 decision for co-financing of studies.</p> <p>Authorisation procedures. Pre-feasibility studies. Feasibility studies. TEN line: 1997 decision for co-financing of studies.</p>

ELECTRICITY NETWORKS: NORTH-EAST EUROPE



SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p><i>b6</i> <u>FRANCE - ITALY</u> Grand île - Piossasco line.</p> <p><i>b7</i> <u>FRANCE - SPAIN</u> Cazaril - Aragón line or alternative route/layout, including connection to the Sallente - Sentmenat line.</p> <p><i>b10</i> <u>SPAIN - PORTUGAL</u> Mesón - Lindoso line. Aldeadavila - Douro International line.</p> <p><i>b10(a)</i> <u>SPAIN - PORTUGAL</u> Balboa - Sines line.</p>	<p>Project declared as "priority project" at the Essen Summit (December 1994). Authorisation procedures. Commissioning: 2000. TEN line: 1995 decision for co-financing of studies.</p> <p>Project declared as "priority project" at the Essen Summit (December 1994). 75% of the Spanish line built. Project suspended. Feasibility studies on new routes ongoing. Commissioning: (1998) postponed. TEN line: 1995 and 1996 decisions for co-financing of studies.</p> <p>Project declared as "priority project" at the Essen Summit (December 1994). In operation since 1996. CSF (Spain): 3 MECU EIB loan: 26 MECU</p> <p>Pre-feasibility studies. Commissioning: 2004.</p> <p>Pre-feasibility studies. Commissioning: after 2000.</p>
<p><i>c6</i> <u>SPAIN</u> <i>Connections in the North:</i> - Soto-Penagos-Gueñes-Itxaso line. - Aguayo - "Penagos-Barcina" line.</p> <p><i>Connections on the Mediterranean axis:</i> - Almeria - Rocamora line. - Pinar - Tajo line. - Caparacena - "Tajo-Almería" line. - Sentmenat - Bescanó line. - Bescanó - "Vic - Baixas" line.</p> <p><i>c7</i> <u>PORTUGAL</u> Pego - Rio Maior II line. Recarei-Douro International line.</p> <p><i>c10</i> <u>SPAIN</u> <i>Connections in the North-East:</i> - in Alava, Aragon and Navarra. <i>Connections in the West:</i> - in Galicia.</p>	<p>Authorisation procedures. Some sections are under construction. Commissioning: 2000. TEN line: 1995 decision for co-financing of studies. In operation since January 1997.</p> <p>Under construction. Commissioning: 1997.</p> <p>Under construction. Commissioning: 1997. EIB loan: 25 MECU.</p> <p>In operation since January 1997.</p> <p>Feasibility studies. Commissioning: 2004. TEN line: 1996 decision for co-financing of studies.</p> <p>Feasibility studies. Commissioning: 2004. TEN line: 1996 decision for co-financing of studies.</p> <p>Authorisation procedures. Commissioning: 1998. Feasibility studies. Commissioning: 2001. TEN line: 1995 decision for co-financing of studies.</p> <p>Feasibility studies. Commissioning: after 2000. TEN line: 1997 decision for co-financing of studies.</p> <p>Feasibility studies. Commissioning: after 2000. TEN line: 1997 decision for co-financing of studies.</p>
<p><i>d13</i> <u>SPAIN - MOROCCO</u> Pinar - Tetouan link.</p>	<p>Under construction. Commissioning: 1997. TEN line: 1995 decision for co-financing of studies. INTERREG: 12.5 MECU.</p>

SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p>a4 <u>GREECE - ITALY</u> Ipiros - Puglia link.</p>	<p>Project declared as "priority project" at the Essen Summit (December 1994). Authorisation procedures. Commissioning: 2000 REGEN (35 MECU); INTERREG II (78,5 MECU); EIB loan (100 MECU).</p>
<p>b12 <u>AUSTRIA - ITALY</u> Lienz - Cordignano line.</p>	<p>Authorisation procedures. Commissioning: 2004. TEN line: 1995 decision for co-financing of studies.</p>
<p>b14 <u>AUSTRIA - GERMANY</u> St Peter - Isar line.</p>	<p>Pre-feasibility studies. Commissioning: after 2000.</p>
<p>c5 <u>ITALY</u> <i>Connections on the East-West axis:</i> - Vado Ligure - Morigallo line. - Caorso - San Damaso line. - Rondissone-Castelnuovo/Scrvia line. - Turbigo - Rho line. - Turbigo - Baggio line. - Gorlago - San Fiorano line. - San Fiorano substation. - Turbigo - Piedilago line. - Piedilago pumping station. <i>Connections on the North-South axis:</i> - Tavarnuzze - Poggio a Caiano - Calenzano line. - Pietrafitta - Santa Barbara line. - Santa Barbara - Tavarnuzze line. - Tavarnuzze substation. - Matera - Santa Sofia line. - Galatina - Taranto Nord line. - Pian della Speranza/Roma Nord - Montalto/Suvereto line. c5(a) <u>ITALY</u> <i>Connections on the East-West axis:</i> - Chivasso - Magenta line. - Colunga - Calenzano line. <i>Connections on the North-South axis:</i> - Pietrafitta - Villavalle line.</p>	<p>Authorisation procedures. Commissioning: 2004. TEN line: 1995 decision for co-financing of studies. In operation. In operation. Under construction. Commissioning: 1999. Authorisation procedures. Commissioning: 2000. Under construction. Commissioning: 1997. Under construction. Commissioning: 1997. Authorisation procedures. Commissioning: 2004. Authorisation procedures. Commissioning: 2004. TEN line: 1995 decision for co-financing of studies. Under construction. Commissioning: 1997. Authorisation procedures. Commissioning: after 2000. TEN line: 1995 decision for co-financing of studies. Authorisation procedures. Commissioning: 2000. TEN line: 1995 decision for co-financing of studies. Authorisation procedure. Commissioning: 1998. Authorisation procedures. Commissioning: 1998. Authorisation procedures. Commissioning: 1998. Authorisation procedures. Commissioning: 1998. Feasibility studies. Commissioning: between 2000 and 2002. TEN line: 1997 decision for co-financing of studies. Feasibility studies. Commissioning: between 2000 and 2002. TEN line: 1997 decision for co-financing of studies. Feasibility studies. Commissioning: between 2000 and 2002. TEN line: 1997 decision for co-financing of studies.</p>
<p>c8 <u>GREECE</u> Arachthos - Ptolemais line.</p>	<p>Pre-feasibility studies. Commissioning: after 2000.</p>
<p>d5 <u>ITALY - SWITZERLAND</u> S. Fiorano-Robbia line. Piedilago - Airolo line.</p>	<p>Under construction. Commissioning: 1998. Authorisation procedures. Commissioning: 2004.</p>
<p>d8 <u>GREECE - BALKAN COUNTRIES</u> Philippi (GR) - Plovdiv or Maritsa 3 (Bulgaria) line. Amintaio (GR) - Bitola (FYROM) line. Thessaloniki (GR) - Mostar (Bosnia) - Melina (Croatia) line.</p>	<p>Feasibility studies. TEN line: 1997 decision for co-financing of studies. Feasibility studies. TEN line: 1997 decision for co-financing of studies. Pre-feasibility studies.</p>
<p>d9 <u>GREECE - TURKEY</u> <i>Section in Greece:</i> - Thessaloniki - Philippi line. - Philippi - GR/TU border line. <i>Section in Turkey.</i></p>	<p>Under construction. Commissioning: 1998. Pre-feasibility studies. Pre-feasibility studies.</p>
<p>d16 <u>EU - BELARUS - RUSSIA - UKRAINE</u> Connections between the UCPTE and CENTREL systems. Connections between the UCPTE/CENTREL systems and the Balkan countries. Connections and interface between the extended UCPTE system and Belarus, Russia and Ukraine, including the relocation of existing HVDC conversion stations.</p>	<p>In operation since December 1995. Feasibility studies for improving the stability of the interconnected operation of the two systems. TEN line: 1997 decision for co-financing of studies. Feasibility studies. PHARE: financing of studies for the connection of Albania, Bulgaria and Romania. Feasibility studies. PHARE/TACIS: financing of interface study. TEN line: 1997 decision for co-financing of studies concerning the relocation of conversion stations of Wien Südost and Dümrohr.</p>

ELECTRICITY NETWORKS: EXTERNAL DIMENSION

PROJECTS OF MUTUAL INTEREST

Mediterranean area

d9 GREECE - TURKEY Connections between the two countries through North-Eastern Greece.

d13 SPAIN - MOROCCO Connection by submarine cable between southern Spain and the Moroccan network.

Mainland Europe

d2 GERMANY - POLAND Strengthening of the connections between the two countries.

d5 ITALY - SWITZERLAND Strengthening connections between Northern Italy and Switzerland.

d8 GREECE - BALKAN COUNTRIES Strengthening of connections between Greece and, respectively, Albania, Bulgaria and former Yugoslavia, including the restoration of the connections with the North of the former Yugoslavia and the UCPTTE network.

d16 EU - BELARUS - RUSSIA - UKRAINE Development of connections and interface between the (extended) UCPTTE network and the networks of third countries in Eastern Europe, including the relocation of the HVDC conversion stations operating previously between Austria and Hungary, Austria and the Czech Republic and Germany and the Czech Republic.

Northern Europe

d3 GERMANY - NORWAY Connection by submarine cable between Northern Germany (UCPTTE) and Southern Norway (NORDEL).

d10 UNITED KINGDOM - NORWAY Connection by submarine cable between North-East/East England and Southern Norway (NORDEL).

d11 THE NETHERLANDS - NORWAY Connection by submarine cable between the North-Eastern Netherlands (UCPTTE) and Southern Norway (NORDEL).

d14 BALTIC RING: GERMANY - POLAND - RUSSIA - ESTONIA - LATVIA - LITHUANIA - SWEDEN - FINLAND - DENMARK - BELARUS Strengthening and developing connections between the networks of these countries by overhead lines and/or submarine cables.

d15 SWEDEN - NORWAY Strengthening of the connections between the two countries.

ELECTRICITY NETWORKS: EXTERNAL DIMENSION



NATURAL GAS NETWORKS: LIST OF PROJECTS OF COMMON INTEREST

e. Introduction of natural gas into new regions

- e4* SPAIN Setting up gas networks in the regions of Galicia, Extremadura, Andalusia, Valencia-South, Murcia, including an LNG terminal in Galicia
- e5* PORTUGAL Setting up in the country, in particular along the Atlantic coastline, of a gas network.
- e5(a)* PORTUGAL Construction of an LNG terminal on the Atlantic coast.
- e6* GREECE Setting up a gas network in the country, in particular along the Aegean coastline, including an LNG terminal in Attica and storage facilities.

f. Connection of isolated gas networks to the interconnected European networks, including the necessary improvement of the existing networks, and connection of separate natural gas networks

- f1* IRELAND - UNITED KINGDOM (N. IRELAND) Connection between the gas networks of Ireland and the United Kingdom (Northern Ireland).
- f2* UNITED KINGDOM - CONTINENT Submarine connection between the gas networks of the United Kingdom and the continent through Belgium.
- f3* LUXEMBOURG - GERMANY Establishing a connection to supply Luxembourg from the German networks.
- f5* FRANCE - SPAIN Strengthening of transport capacity between the two countries.
- f6* PORTUGAL - SPAIN Constructing gas pipelines to supply Portugal through Southern Spain and to supply Galicia and Asturias through Portugal.
- f7* FRANCE Connection of the networks of the South-West and of the South of the country.
- f8* AUSTRIA - GERMANY Strengthening of transport capacity between Austria and Bavaria.

- f9* AUSTRIA - HUNGARY Connection between the networks of the two countries.
- f10* AUSTRIA - SLOVAKIA Connection of Austria to underground storage in Slovakia.
- f11* AUSTRIA Connection between gas pipelines linking Austria to, respectively, Germany and Italy.
- f12* GREECE - ALBANIA Connection between the networks of the two countries.

g. Increasing reception (LNG) and storage capacity necessary to satisfy demand, and diversification of supply sources and routes for natural gas

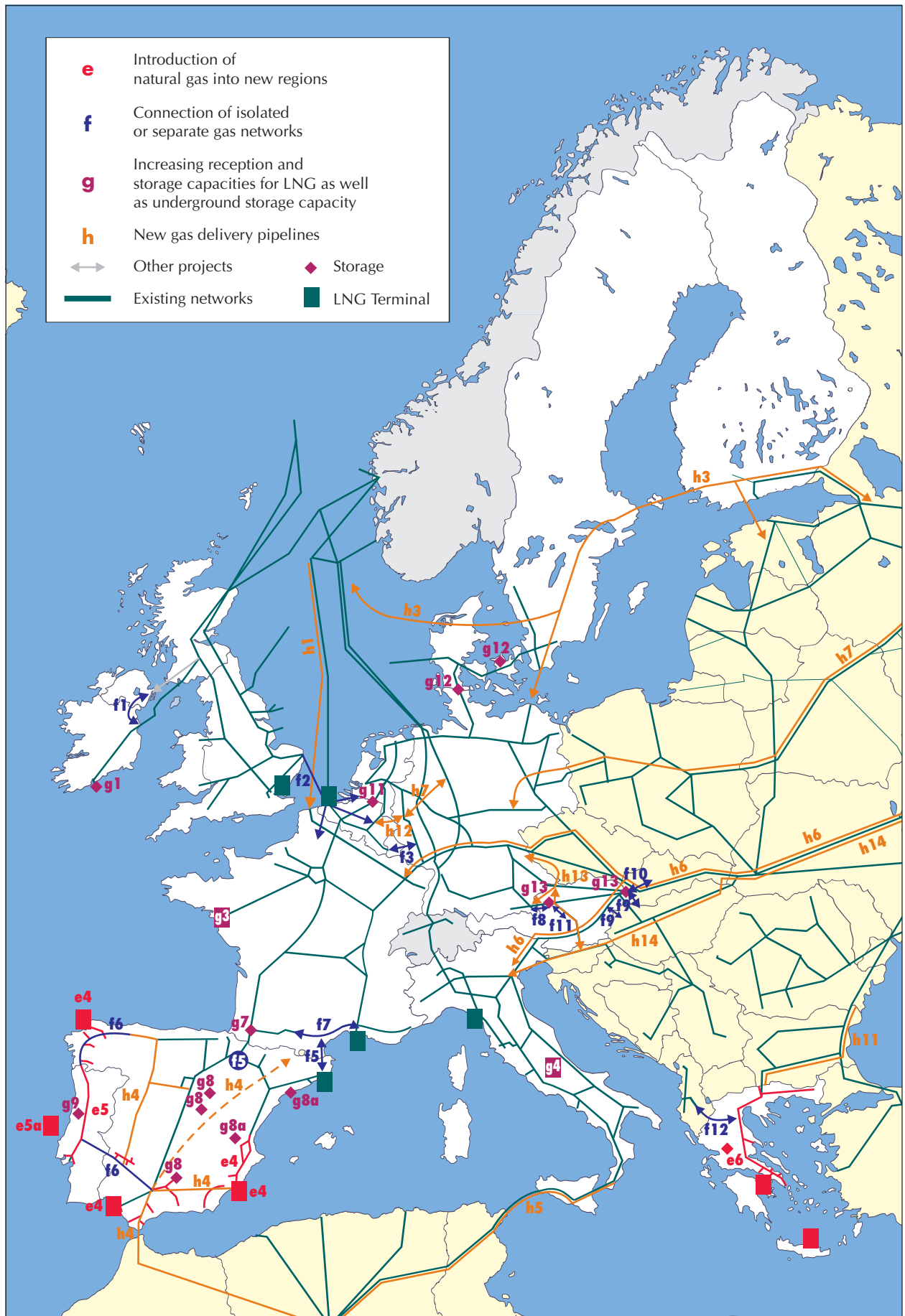
- g1* IRELAND Developing natural gas storage facilities to supply the Irish network.
- g3* FRANCE Extending capacity of existing LNG terminal in Western France.
- g4* ITALY Construction of new LNG terminal to allow diversification of supplies, in particular for electricity generation.
- g7* FRANCE Extension of underground storage capacities in the South-West of the country.
- g8* SPAIN Development of underground storage capacity on the country's North-South axis.
- g8(a)* SPAIN Development of underground storage capacities on the Mediterranean axis.
- g9* PORTUGAL Constructing an underground storage facility.
- g11* BELGIUM Extending existing underground storage capacity in Northern Belgium.
- g12* DENMARK Extending underground storage capacity by increasing capacity on existing sites or creating a new site close to the frontier with Germany.
- g13* AUSTRIA Extension and development of underground storage capacities.

NATURAL GAS NETWORKS: LIST OF PROJECTS OF COMMON INTEREST

*(continued)***h. Increasing transmission capacity (gas delivery pipelines) necessary to meet demand and diversification of supply sources and routes for natural gas**

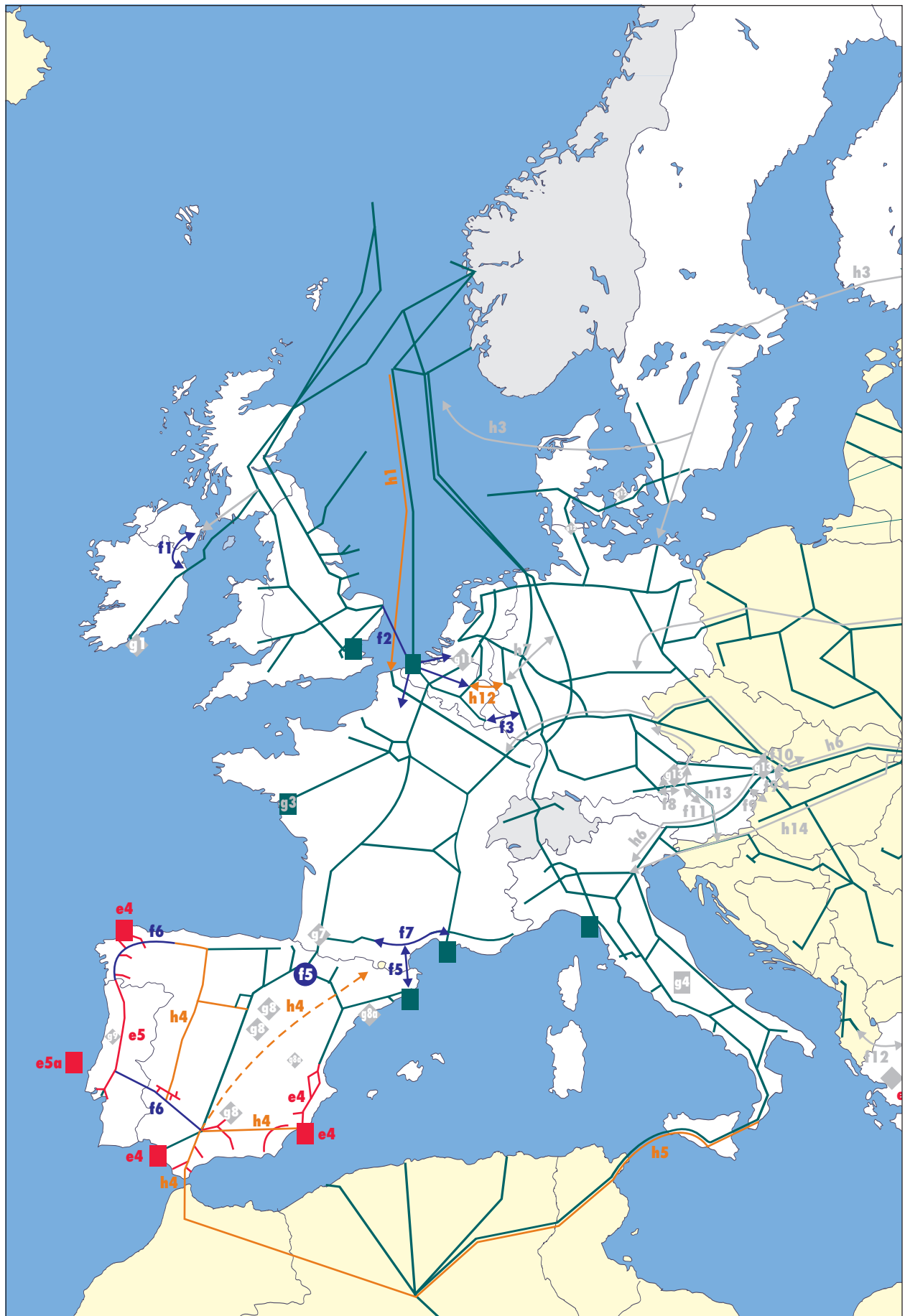
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| <i>h1</i> <u>NORWAY - FRANCE</u> | Construction of a 4th gas pipeline from Norwegian resources (North Sea) to the Continent. |
| <i>h3</i> <u>NORWAY - DENMARK - SWEDEN - FINLAND - RUSSIA - BALTIC STATES</u> | Creation and development of connections between the networks of these countries with a view to setting up an integrated gas network. |
| <i>h4</i> <u>ALGERIA - SPAIN - PORTUGAL - FRANCE</u> | Construction of new gas pipelines to allow Spain and Portugal initially, and subsequently France, to be supplied from Algeria via Morocco. |
| <i>h5</i> <u>ALGERIA - TUNISIA - ITALY</u> | Increasing the transport capacity of the trans-Mediterranean gas pipeline to Italy from Algerian resources. |
| <i>h6</i> <u>RUSSIA - UKRAINE - EU</u> | Increasing transport capacity to the European Union from Russian resources via the main existing axis through the Ukraine, Slovakia and the Czech Republic. |
| <i>h7</i> <u>RUSSIA - BELARUS - POLAND - EU</u> | Creation of a second transport axis from Russian resources to the European Union via Belarus and Poland. |
| <i>h11</i> <u>BULGARIA - GREECE</u> | Improvements to the gas transportation network in Bulgaria to ensure supplies from Russian resources to the new gas network in Greece. |
| <i>h12</i> <u>BELGIUM - GERMANY</u> | Connecting gas pipeline between the Belgian and the German networks. |
| <i>h13</i> <u>GERMANY - CZECH REPUBLIC - AUSTRIA - ITALY</u> | Construction of a system of connecting pipelines between the German, Czech, Austrian and Italian gas networks. |
| <i>h14</i> <u>RUSSIA - UKRAINE - SLOVAKIA - HUNGARY - SLOVENIA - ITALY</u> | Construction of a new gas pipeline, from Russian resources, to Italy. |

NATURAL GAS NETWORKS: GENERAL MAP



SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p>e4 SPAIN Network in Galicia. Network in Extremadura. Network in Andalusia. Valencia - Murcia - Cartagena pipeline. LNG at Huelva (extending existing terminal). LNG at Cartagena (extending existing terminal). LNG in Galicia (new terminal).</p> <p>e5 PORTUGAL Setubal - Braga pipeline.</p>	<p>Project decided (see also project f6). Commissioning: 1998. Under construction (see also projects f6 and h4). Commissioning: 1998. Under construction. Commissioning: 1997. Under construction. Commissioning: 1997. CSF: 107 MECU (requested). In operation since 1996. CSF: 7 MECU. Pre-feasibility studies. Commissioning: 1999. Project postponed.</p> <p>Project declared as "priority project" at the Essen Summit (December 1994). In operation since February 1997. REGEN (82 MECU); INTERREG II (70 MECU); CSF (21 MECU); EIB loan (354 MECU) and ECSC loan (102 MECU). Both loans for this project and its interconnections with Spain (project f6).</p>
<p>f1 IRELAND - UNITED KINGDOM (N. IRELAND) Dublin - Belfast pipeline.</p> <p>f2 UNITED KINGDOM - CONTINENT Bacton-Zeebrugge pipeline. Reinforcement in Belgium of the transportation network to: - France, - Germany, - the Netherlands.</p> <p>f3 LUXEMBOURG - GERMANY Specification not yet defined.</p> <p>f5 FRANCE - SPAIN Compression station at Calahorra (ES), on existing pipeline. Perpignan - Barcelona pipeline.</p> <p>f6 PORTUGAL - SPAIN Leiria - Cordoba pipeline. Braga (PO) - Tuy (ES) - Villalba (ES) - Ribadeo (ES) pipeline.</p> <p>f7 FRANCE Lias - Toulouse pipeline. Toulouse - Cruzy - Fos-sur-Mer pipeline.</p>	<p>Feasibility study completed. Possible commissioning: 2000. TEN line: 1995 decision for co-financing of studies.</p> <p>Under construction. Commissioning: 1998.</p> <p>Under construction. Commissioning: 1998.</p> <p>Pre-feasibility studies.</p> <p>Authorisation procedures. Beginning of construction mid 1997. Commissioning: 1999. Pre-feasibility studies.</p> <p>Project declared as "priority project" at the Essen Summit (December 1994). In operation since January 1997. Under construction. Commissioning: end 1997. <i>For both pipelines:</i> INTERREG II: 150 MECU Portuguese CSF: 6 MECU EIB and ECSC loans: see project e5.</p> <p>The "Artère du Midi" project. In operation. Under construction. Commissioning: 1997.</p>
<p>h1 NORWAY - FRANCE Sleipner - Dunkerque pipeline.</p> <p>h4 ALGERIA - SPAIN - PORTUGAL - FRANCE Algeria - Morocco - Spain (up to Córdoba) pipeline.</p> <p><i>Extension towards the North-East:</i> - Córdoba - Cartagena pipeline. - Córdoba - France pipeline.</p> <p><i>Extension towards the North-West:</i> - Western pipeline: Extremadura-Castilla y León-Asturias- Galicia.</p> <p>h5 ALGERIA - TUNISIA - ITALY Doubling of the trans-Mediterranean pipeline (via Sicily).</p> <p>h12 BELGIUM - GERMANY <i>Section in Belgium:</i> - Berneau - Eynatten (BE/DE border) pipeline.</p>	<p>The "NORFRAPIPE" project. Under construction. Commissioning: 1998.</p> <p>Project declared as "priority project" at the Essen Summit (December 1994). In operation since November 1996. EIB loans: 641 MECU for works from Algeria to Tarifa (ES). CSF for Spain: 99 MECU Feasibility studies. Possible commissioning: 2000. Pre-feasibility studies. Commissioning: after 2000.</p> <p>Authorisation procedures and under construction (some stretches). Commissioning: 1999. CSF: 105 MECU (requested).</p> <p>In operation since January 1997.</p> <p>(see also project f2). Authorisation procedures. Commissioning: 1998.</p>

GAS PIPELINES: EUROPE (WEST)



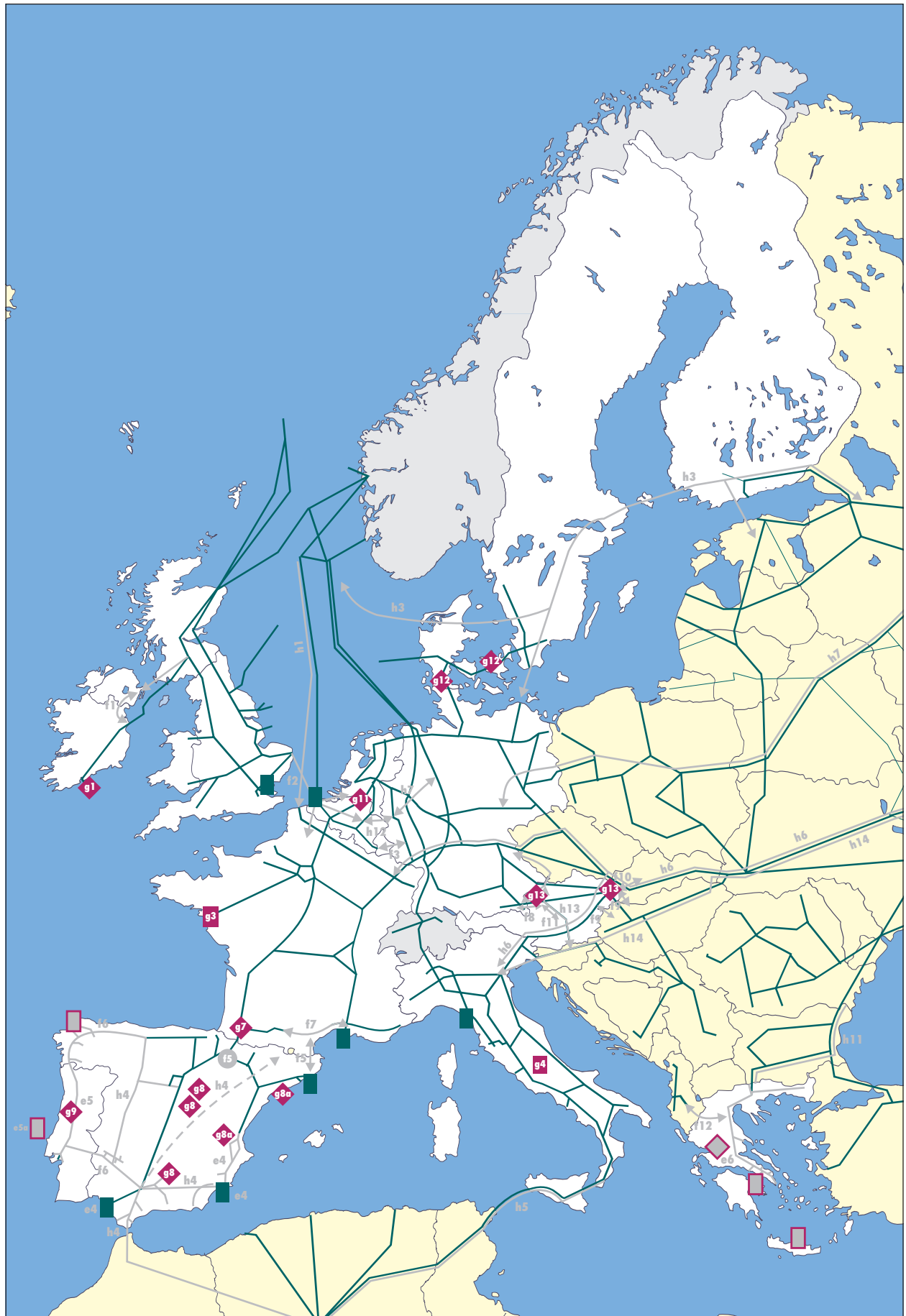
SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p>e6 <u>GREECE</u> Main network: - GR/BG border - Athens pipeline. - LNG at Revithoussa (new terminal). High pressure branches: - High pressure branches in the Thessaloniki, Volos and Atikki areas. - High pressure branch to Thrace.</p> <p>- High pressure branch to Corinth - High pressure branch to North-Western Greece. Storage facilities (underground). LNG terminal and network on the island of Creta.</p>	<p>Project declared as "priority project" at the Essen Summit (December 1994).</p> <p>In operation since November 1996. Under construction. Commissioning: 1998.</p> <p>Under construction. Commissioning: 1997 and 1998.</p> <p>Under construction. Commissioning: 1999. TEN line: 1995 decision for co-financing of studies. For the main network and the above high pressure branches: REGEN (87 MECU); INTERREG II (180 MECU); CSF (262 MECU); EIB loan (307 MECU) and ECSC loan (83 MECU + 97 MECU requested). Feasibility studies. TEN line: 1995 decision for co-financing of studies. Feasibility studies. TEN line: 1997 decision for co-financing of studies. Feasibility studies. TEN line: 1995 decision for co-financing of studies. Feasibility studies. TEN line: 1996 decision for co-financing of studies.</p>
<p>f8 <u>AUSTRIA - GERMANY</u> Purchkirchen (AT) - Burghausen (DE) - Schnaitsee (DE) pipeline.</p> <p>f9 <u>AUSTRIA - HUNGARY</u> Baumgarten - Györ pipeline. Wiener Neustadt - Sopron pipeline.</p> <p>f10 <u>AUSTRIA - SLOVAKIA</u> Baumgarten - March (Lab storage) pipeline.</p> <p>f11 <u>AUSTRIA</u> Krift - Pyhrn pipeline.</p> <p>f12 <u>GREECE-ALBANIA</u> North-Western Greece - Elbasan pipeline.</p>	<p>Authorisation procedures. Commissioning: 1998.</p> <p>In operation since October 1996. Feasibility studies.</p> <p>Under construction. Commissioning: 1997.</p> <p>Authorisation procedures. Beginning of construction in 1997. Commissioning: 1998.</p> <p>Feasibility studies. TEN line: 1997 decision for co-financing of studies.</p>
<p>h3 <u>NORWAY - DENMARK - SWEDEN - FINLAND - RUSSIA - BALTIC STATES</u> Specification not yet defined.</p> <p>h6 <u>RUSSIA - UKRAINE - EU</u> Section in Russia, Ukraine and Slovakia. Section in Czech Republic, Germany and France. Section in Austria and Italy.</p> <p>h7 <u>RUSSIA - BELARUS - POLAND - EU</u> Section in Russia and Belarus. Section in Poland.</p> <p>Section in Germany: - YAGAL pipeline (between Frankfurt/Oder and the STEGAL pipeline). - WEDAL pipeline (between the MIDAL pipeline and Eynatten at the BE/DE border).</p> <p>h11 <u>BULGARIA - GREECE</u> Doubling the transportation network in Bulgaria: Kardan-Valchi Dol-Lozenets-St. Zagora-Ihtiman New pipeline: Ihtiman (BG) - BG/GR border.</p> <p>h13 <u>GERMANY - CZECH REPUBLIC - AUSTRIA - ITALY</u> Burghausen (DE) -Mauerkirchen (AT) pipeline. Other connecting pipelines: specification not yet defined</p> <p>h14 <u>RUSSIA - UKRAINE - SLOVAKIA - HUNGARY - SLOVENIA - ITALY</u> Section in Russia, Ukraine and Slovakia. Section in Hungary and Slovenia. Section in Italy.</p>	<p>The "NORDIC GAS GRID" project. Feasibility studies. Commissioning: between 2002 and 2005. TEN line: 1997 decision for co-financing of studies.</p> <p>In operation. Upgrading of the existing pipelines. Under construction in Slovakia. Under construction in the Czech Republik. Feasibility study in Austria.</p> <p>Project declared as "priority project" at the Essen Summit (December 1994). The "YAMAL- EUROPE" project Pipeline in Belarus: under construction. Pipeline in Western Poland: in operation since end 1996. Pipeline in Central and Western Poland: project decided. The Oder crossing is in operation since end 1996. Authorisation procedures and under construction.</p> <p>Authorisation procedures and under construction. Commissioning: - MIDAL - Soest (82 km): in 1997</p> <p>Under construction. PHARE (Interreg): 4 MECU.</p> <p>In operation since mid-1996.</p> <p>The "PENTA" project.</p> <p>Under construction (20 km). Feasibility studies. Commissioning: from 1996 to 2001. TEN line: 1997 decision for co-financing of studies.</p> <p>The "VOLTA" project. Feasibility studies for the section in Italy. Commissioning: - First phase in 1999 and second phase in 2003-2005. TEN line: 1997 decision for co-financing of studies.</p>

GAS PIPELINES: EUROPE (EAST)



SPECIFICATION OF THE PROJECT	STAGE REACHED AND EC FINANCIAL INTERVENTION
<p><i>e5(a) PORTUGAL</i> Specification not yet defined.</p>	<p>Feasibility studies. Commissioning between 2002 and 2004.</p>
<p><i>g1 IRELAND</i> Storage at Kinsale Head (under-ground).</p> <p><i>g3 FRANCE</i> LNG at Montoir (extending existing terminal).</p> <p><i>g4 ITALY</i> Specification not yet defined.</p> <p><i>g7 FRANCE</i> Storage at Lussagnet (extending existing site).</p> <p><i>g8 SPAIN</i> Storage on the North-South axis (new sites) in: - Cantabria. - Aragon. - Castilla y León. - Castilla - La Mancha. - Andalucía.</p> <p><i>g8(a) SPAIN</i> Storage on the Mediterranean axis (new sites) in: - Catalonia. - C.A. Valenciana. - Murcia.</p> <p><i>g9 PORTUGAL</i> Storage in the area of Monte Redondo (new site).</p> <p><i>g11 BELGIUM</i> Storage at Loenhout (extending existing site).</p> <p><i>g12 DENMARK</i> Storage at Stenlille (extending existing site). Storage at Toender (new site).</p> <p><i>g13 AUSTRIA</i> Storage at Purchkirchen (extending existing site), including connecting pipeline to the MEGAL system near Wildenranna. Storage at Baumgarten (new site).</p>	<p>Feasibility studies. Commissioning: 1998-2000. TEN line: 1996 decision for co-financing of studies.</p> <p>Pre-feasibility studies.</p> <p>Authorisation procedures. Commissioning: 2001.</p> <p>Authorisation procedures.</p> <p>Feasibility studies. Commissioning: between 1998 and 2005. TEN line: 1995 and 1996 decisions for co-financing of studies.</p> <p>Pre-feasibility and feasibility studies. Commissioning: between 1998 and 2005. TEN line: 1997 decision for co-financing of studies.</p> <p>Pre-feasibility studies. Commissioning: 2000. CSF: 52 MECU (foreseen).</p> <p>Project decided. Commissioning: in stages, between 1997 and 2000.</p> <p>Feasibility study. TEN line: 1996 decision for co-financing of studies.</p> <p>Feasibility study. TEN line: 1995 decision for co-financing of studies.</p> <p>Feasibility studies and authorisation procedures. Commissioning in 1999.</p> <p>The "Eurostorage" project. Feasibility studies. TEN line: 1997 decision for co-financing of studies.</p>

LNG TERMINALS & STORAGE FACILITIES



GAS NETWORKS: EXTERNAL DIMENSION

PROJECTS OF MUTUAL INTEREST

Mediterranean area

- h4*** ALGERIA - SPAIN - PORTUGAL - FRANCE Construction of new gas pipelines to allow Spain and Portugal initially, and subsequently France and other countries, to be supplied from Algeria via Morocco.
- h5*** ALGERIA - TUNISIA - ITALY Increasing the transport capacity of the trans-Mediterranean gas pipeline to Italy from Algerian resources.

East-European Axis

- f9*** AUSTRIA - HUNGARY Connection between the networks of the two countries.
- f10*** AUSTRIA - SLOVAKIA Connection of Austria to underground storage in Slovakia.
- f12*** GREECE - ALBANIA Connection between the networks of the two countries.
- h6*** RUSSIA - UKRAINE - EU Increasing transport capacity to the European Union from Russian resources via the main existing axis through the Ukraine, Slovakia and the Czech Republic.
- h7*** RUSSIA - BELARUS - POLAND - EU Creation of a second transport axis from Russian resources to the European Union via Belarus and Poland.
- h11*** BULGARIA - GREECE Improvements to the gas transportation network in Bulgaria to ensure supplies from Russian resources to the new gas network in Greece.
- h13*** GERMANY - CZECH REPUBLIC - AUSTRIA - ITALY Construction of a system of connecting pipelines between the German, Czech, Austrian and Italian gas networks.
- h14*** RUSSIA - UKRAINE - SLOVAKIA - HUNGARY - SLOVENIA - ITALY Construction of a new gas pipeline, from Russian resources, to Italy.

North-European axis

- h1*** NORWAY - FRANCE Construction of a 4th gas pipeline from Norwegian resources (North Sea) to the Continent.
- h3*** NORWAY - DENMARK - SWEDEN - FINLAND - RUSSIA - BALTIC STATES Creation and development of connections between the networks of these countries with a view to setting up an integrated gas network.

LNG reception terminals

- e4*** SPAIN LNG of Huelva (extending existing terminal).
LNG of Cartagena (extending existing terminal).
LNG in Galicia (new terminal).
- e5(a)*** PORTUGAL LNG on the Atlantic coast (new terminal).
- e6*** GREECE LNG in Attica (new terminal).
- g3*** FRANCE LNG in Western France (extending existing terminal).
- g4*** ITALY Construction of a new LNG terminal to allow diversification of supplies, in particular for electricity generation.

NATURAL GAS NETWORKS: EXTERNAL DIMENSION

