

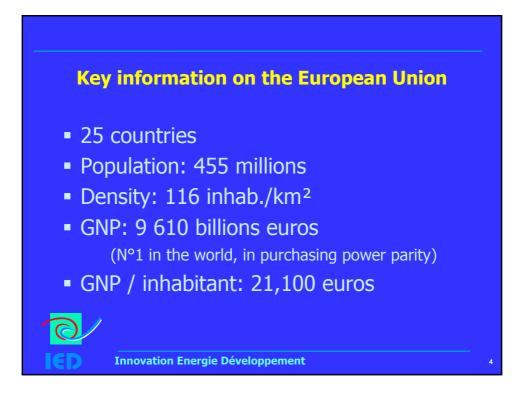


- Key information on the European Union and its energy situation
- Main orientations of the EU energy policy, key tools for action
- Examples of EU energy strategies:
 - Single energy market
 - Integration of electricity and gas networks
 - Intelligent Energy Program
 - Emission Trading System
- Results and limits of present EU energy policy,
- Lessons for the development of other regional energy schemes

2

Innovation Energie Développement







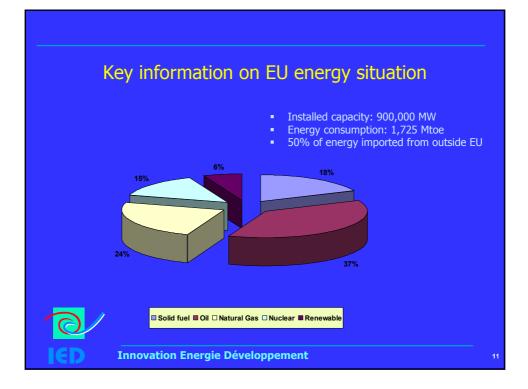


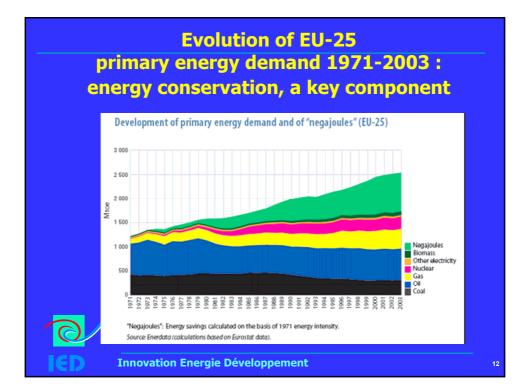


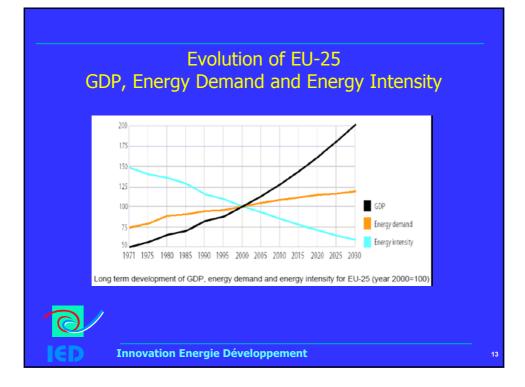


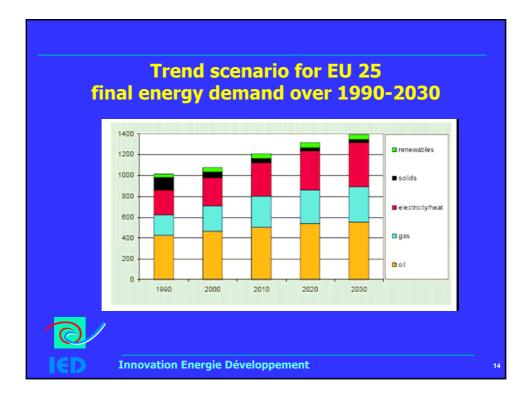
	E	voluti	on of t	he Eu	ropear	Unior	1
		Eu	ropean Unio	n - <u>treaties</u> ,	structure, hi	istory	
	1952	1958	1967	1993	1999	2003	2
			EC - European Community		EAN UN	ION (EU	J)
	European (Coal and Ste	el Communi	ty (ECSC)			
		European Communit		European (Community	(EC)	
			<u>European</u> <u>Communities</u> EC8C, EEC (EC, 1993), Euratom	<u>Affairs</u>	Police & Ju operation in Criminal (PJCC) oreign and Se		2
		Euratom (European Ato	mic Energy	Community)		
	Treaty of Paris	Treaties of Rome	Merger Treaty	Treaty of Maastricht	Treaty of Amsterdam	Treaty of Nice	European Constitution
0			n Communities Co-operation in			ign and Securit	y Policy
IED	Inno	vation Er	nergie Dé	veloppem	ent		

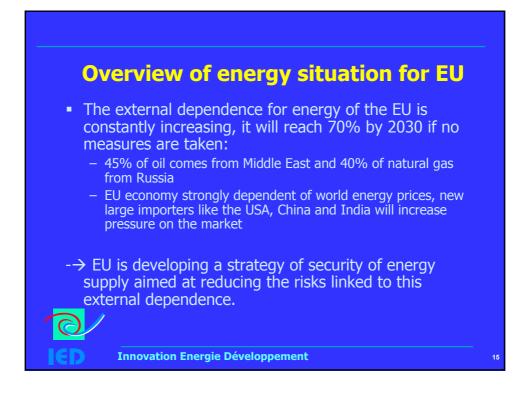


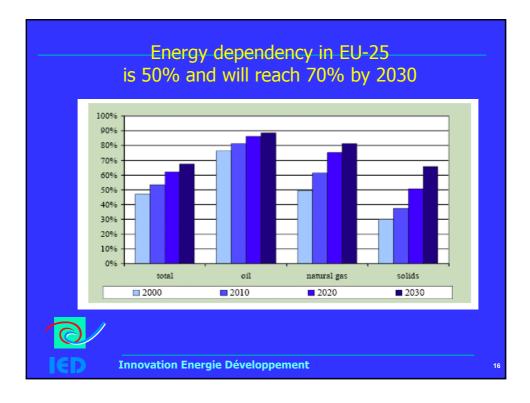




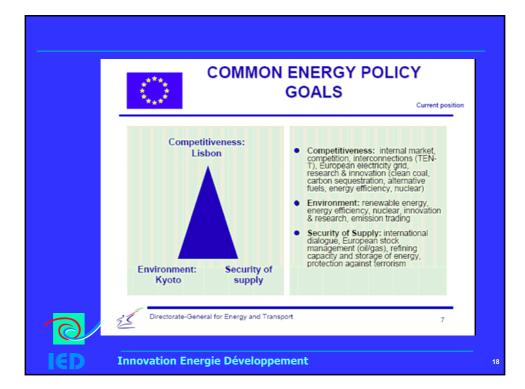


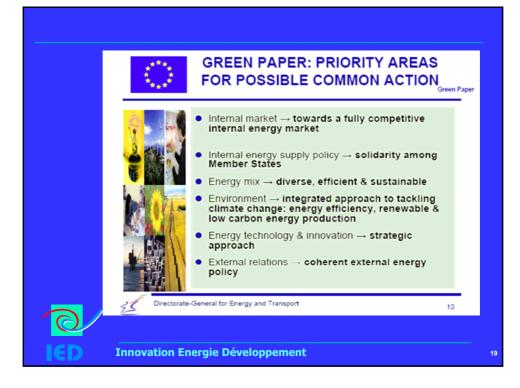


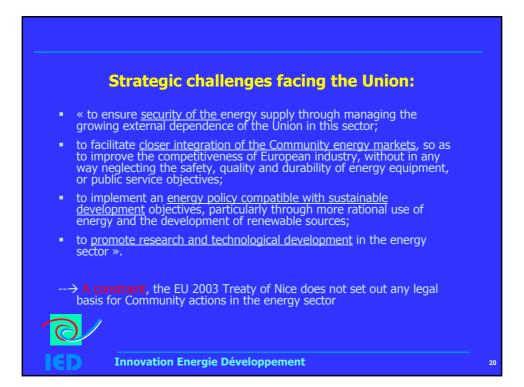




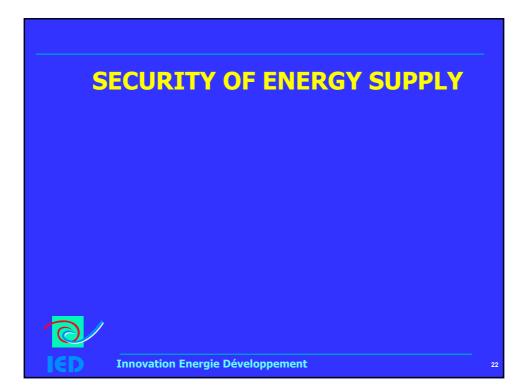












Background	 Imported crude oil and petroleum products are accounting for a growing share of the European Union's energy supplies. Any difficulty could reduce supplies of these products from non-EU countries and seriously disturb economic activity. The objective of the Directive is to ensure minimum stocks of crude oil and/or petroleum products in each Member State in order to improve security of energy supplies in the EU. 			
Act	Council Directive 68/414/EEC of 20 December 1968 + Amendments			
Summary	•The Member States are required to maintain at all times, within the territory of the EU, stocks of petroleum products at a level corresponding to at least 90 days' average daily internal consumption in the preceding calendar year.			
Observations	There is a derogation for Member States with their own petroleum production.			

Security of supply of natural gas				
Background	•Natural gas is becoming an increasingly important source of energy. In the new internal gas market, there will no longer be a single player guaranteeing security of supply. Consequently, responsibility for this task cannot be entrusted solely to the industry, which is itself dependent on its external supplies.			
Act	Council Directive 2004/67/EC of 26 April 2004 + related acts			
Summary	The Gas Directive (2003/55/EC) recognises the right of Member States to regard security of supply as a public service obligation. However, various obstacles to competition still need to be overcome. This new Directive establishes a common framework within which Member States can define general security-of-supply policies that are transparent, solidarity-based, nondiscriminatory and consistent with the requirements of a single market in gas.			
observations	Issues are: access to network and tariff for transit, monitoring of production and imports, difficulties for new entrants,			

Electricit	y supply and infrastructure investment
Background	The European Union (EU) is on the point of creating the largest competitive market for electricity and gas in the world. However, in order to function, an integrated electricity market requires significant investment in transmission networks.
Act	Proposal COM(2003) 740 for a Directive of the European Parliament and of the Council on electricity infrastructure and security of supply.
Summary	The proposed Directive establishes measures aimed at ensuring the proper functioning of the EU internal market for electricity by safeguarding security of electricity supply and by ensuring an adequate level of interconnection between Member States to ensure competition at European and national level. A special focus is placed on network investment, specific roles of regulators and information exchange on supply-demand strategies
bservations	The proposal has been followed by regulations and directives
Innova	ation Energie Développement

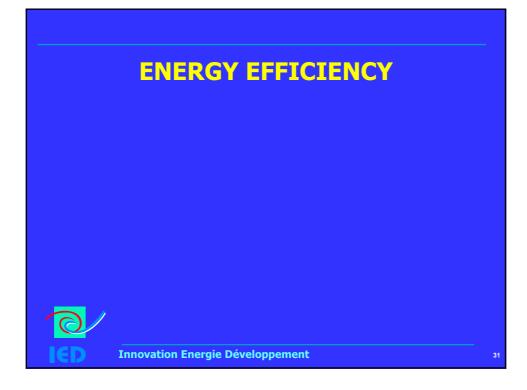


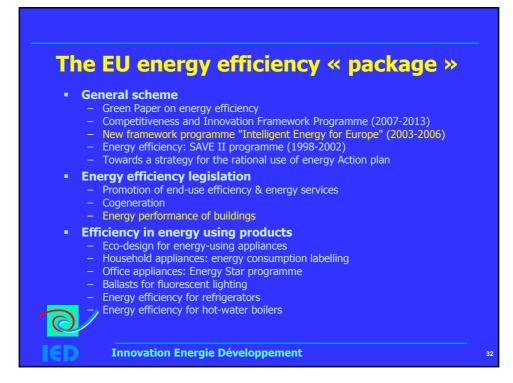
Background	The aim of the Regulation is to provide the Commission with accurate information on any intended energy investment project of Community interest and to enable it thus to have an overall view of planned changes in capacity and equipment			
	in the energy sector within the Community.			
Act	Council Regulation (EC) No 736/96 of 22 April 1996 on notifying the Commission of investment projects of interest to the Community in the petroleum, natural gas and electricity sectors			
Summary	Before 15 April of each year Member States shall provide the Commission with information concerning investment projects relating to the production, transport, storage, and distribution of oil, gas or electricity three years before the intended date of commencement of the work; the period is five years in the case the electricity sector's projects.			
Observations	Information required: Name of company, aim & nature of investment, intended capacity, date of placing into service, raw materials used, date of decommissionning and related capacity/power			

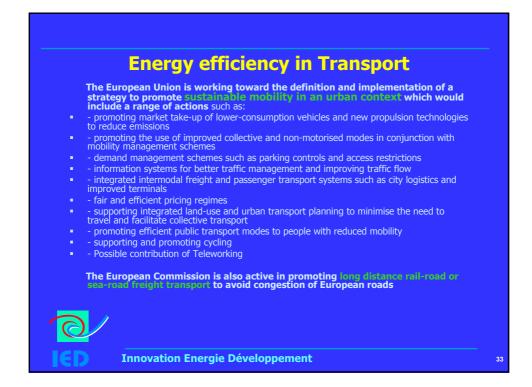
Background	In response to the call by the Lisbon European Council, this Directive proposes a series of measures to open up the electricity market completely to the benefit of consumers.
Act	Directive 2003/54/EC of the European Parliament and of the Council of 26 June 2003 concerning common rules for the internal market in electricity and repealing Directive 96/92/EC
Summary	This Directive establishes common rules for the generation, transmission and distribution of electricity. It lays down the rules relating to the organisation and functioning of the electricity sector, access to the market, the criteria and procedures applicable to calls for tenders and the granting of authorisations and the operation of systems.
Observations	Main points adressed: public services obligations and consumer protection, tendering for new capacity, designation of system operators, unbundling of accounts, full market opening by July 2007, reciprocity and reporting

	To gradually open up national gas markets to competition and			
Background improve security of supply and industrial competitiveness.				
Act	Directive 2003/55/EC of the European Parliament and of the Council of 26 June 2003 + several complements			
Summary	The Directive establishes common rules on the storage, transmission, supply and distribution of natural gas. It lays down detailed rules on the organisation and functioning of the natural gas sector, including liquefied natural gas (LNG), biogas and gas from biomass and other types of gas. The new Directive also regulates market access, the criteria and procedures that apply to the granting of licences for the transmission, storage, distribution and supply of natural gas , and the operation of systems			
Observations	Main articles relate to : public service obligations and consumer protection, autorisation procedure, monitoring security of supply, technical rules, operators' tasks, unbundling of transmission and distribution system operators, unbundling of accounts and transparency, organisation of access to the system			

	network for cross-border exchanges in electricity
Background	The Regulation lays down fair rules for cross-border exchanges in electricity, thus enhancing competition within the internal market in electricity while taking into account the specificities of national and regional markets. The aim is to promote cross-border trade in electricity, by laying down basic rules regarding access to
	networks for cross-border transactions.
Act	Regulation (EC) No 1228/2003 of the European Parliament and of the Council of 26 June 2003
Summary	The purpose of the Regulation is to stimulate cross-border exchanges in electricity by establishing a compensation mechanism for transit flows of electricity and by introducing harmonised principles on cross-border transmission charges and the allocation of available interconnection capacities between national transmission systems.
Observations	Charges applied by network-operators for access to networks are transparent and take into account the need for network security
~	and reflect actual costs incurred.





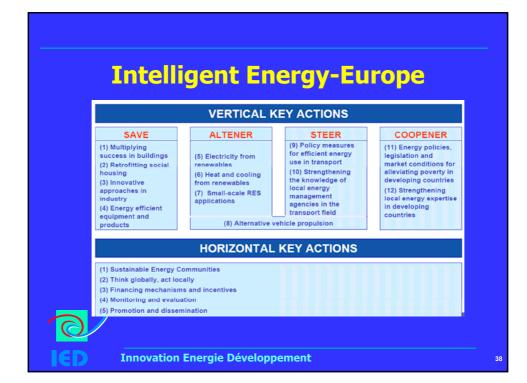


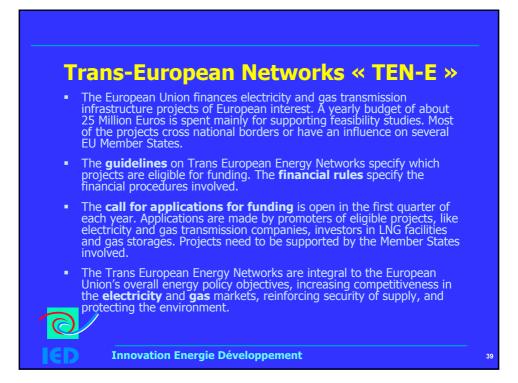
Energy effic	ciency: energy performance of buildings
Background	Energy consumption for buildings-related services accounts for approximately one third of total EU energy consumption. The Commission considers that, with initiatives in this area, significant energy savings can be achieved, thus helping to attain objectives on climate change and security of supply. Community-level measures must be framed in order to deal with such Community- level challenges. This Directive is a follow-up to the measures on boilers (92/42/EEC), construction products (89/106/EEC) and
	SAVE programme provisions on buildings.
Act	Directive 2002/91/EC of the European Parliament and of the Council of 16 December 2002 on the energy performance of buildings
Summary	The directive provides: a common methodology for calculating the integrated energy performance of buildings; minimum standards for new or renovated buildings, systems for energy certification, inspection of boilers and central air-conditioning systems.
(bservations	This directive has been complemented on specific topics
	ation Energie Développement

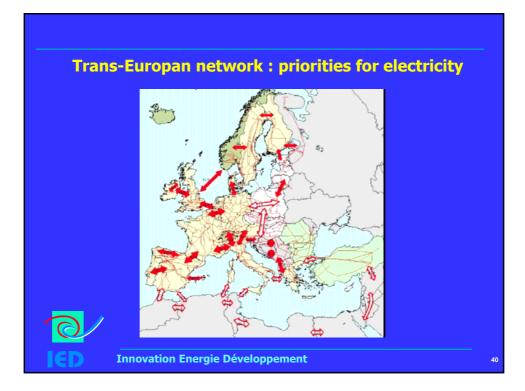


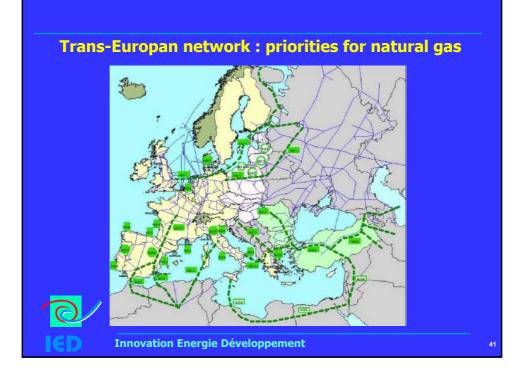












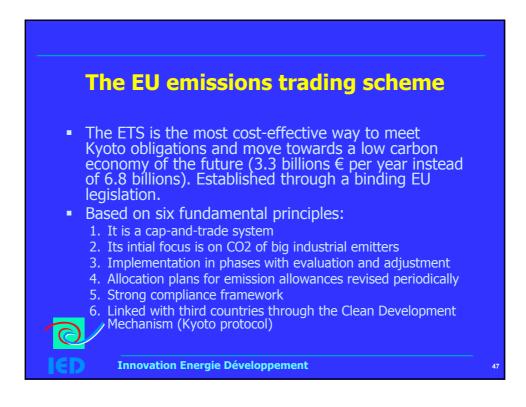
Estimated in	vestmer	it for l	EU TE	N prio	rity axes up to 2013
	PRORITY AXIS	ADDITIONNAL CAPACITY INSIDETO THE EU	INVESTMENT INSIDE THEEU	INVESTMENT OUTSIDE THE EU	
	EL 1 Fr. Be . NL . DE	2600	303		
	EL 2 Borders Rely	4900	600		• Electricity :
	EL 3 Fr - Es - Po	3900	400		
	EL 4 Gr. Balkans - UCTE	2000	100	300	6 billions €
	EL 5 UK - Contrental Euro	2900	1100	100	e chinolio e
	ELS Y-UK	500	300		
	EL 7 Baltic Ring	3900	703	100	 Natural gas:
	EL 8 Cantral Europa	3900	500		- Matul al gas.
	EL 9 Mediterranean Ring	3900	1000	500	22 billions €
	TOTAL PRIORITY PROJECTS EL	23000 Maga Watts	5000 Millons Euro	1000 Millons Euro	22 DIFFIOUS C
	NG 1 Russia - NL - DE - UH	< 10	4000	1900	
	NG 2 Algeria - EU	20	4500	1900	
	NG 3 Casp. MO - EU	- 10	1900	1900	Oil pipelines:
	NG 4 Terminals LNG	20	2900		
	NG 6 Underground stock		2900		12 billions €
	NG 6 East Med. Ring	10	1000	2900	
	TOTAL PRIORITY PROJECTS GN	20 Billione m ³ /mar	1 5000 Millons Euro	7000 Millons Euro	
	PE 1 Russia - EU		800	1600	
	PE 2 Black Sea- EU		200	1900	
	PE 3 Oli pipelines Inside El	u .	2900		
	PE 4 AttosMidde East - E	ių.	1900	2000	
	PE 6 OII Ports		2900	1000	
	TOTAL PRIORITY PROJECTS PE	Willons tonnes/year	6000 Millions Euro	6000 Millons Euro	
	OVERALL		25000	14000	
	TOTAL Source: Estimates of the Burg	cean Commission		Millons Euro	

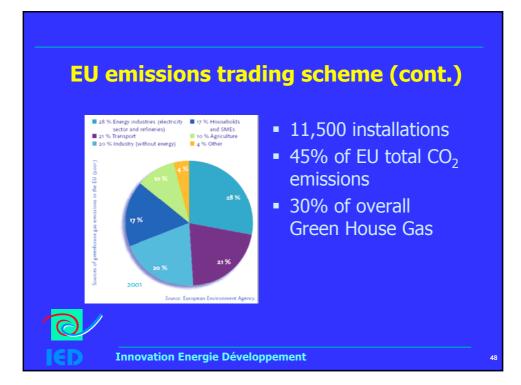














Results and limits of present EU energy policy **KEY RESULTS** • The EU has succeeded in decoupling GNP growth and energy consumption A step by step approach of the EC, combining long term planning, information, regulation, demonstration and evaluation has resulted in a growing energy integration and consensus on priorities Climate change challenges have been integrated in the EU energy policy; EU has a leading role in the Kyoto process, its ETS is a world success • EC has also a leading role in identifying common EU energy issues and developing joint solutions based on subsidiarity The EC energy programs and regulations are involving systematically a large range of stakeholders right from early stages Transparency of information and decisions has been thoroughly introduced **Innovation Energie Développement**

50

