



Implementation of the Transparency Guidelines

Entsog Transparency WS
23 November 2011

- Introduction
- Analysis
- Improvements
- Obstacles faced
- Conclusions

LNG terminals



- Barcelona: 1,950,000 m³(n)/h ; (8 tanks: 840,000 m³ LNG)
- Cartagena: 1,350,000 m³(n)/h ; (5 tanks: 587,000 m³ LNG)
- Huelva : 1,350,000 m³(n)/h ; (5 tanks: 610,000 m³ LNG)
- 40% of Bilbao: 800,000 m³(n)/h ; (2 tanks: 300,000m³ LNG)

Transmission network



- >9,000 km of high pressure pipelines (72-80 bar) (>90% of total)
- International links to Morocco, France & Portugal (x2)

Underground storages



- Serrablo (Total capacity: 1.100 million m³ (n))
- Gaviota (Total capacity: 2.481 million m³ (n))
- Yela – *under construction* - (2012)

Enagas in the Spanish Gas Sector

Sourcing (Liberalised)

Infrastructure (Regulated)

Supply (Liberalised)

Type

- 76% LNG
- 24% Pipeline

Main Origins

- Algeria (30%)
- Nigeria (22%)
- Qatar (15%)
- T&T (9%)

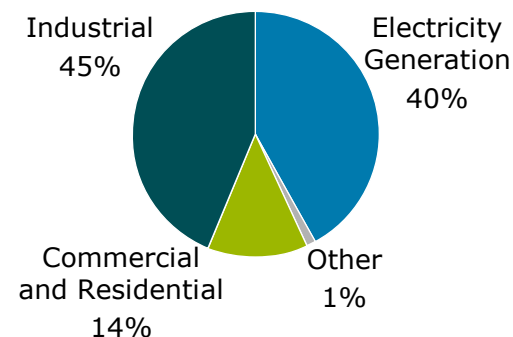
Transport

Regasification

Storage

Distribution

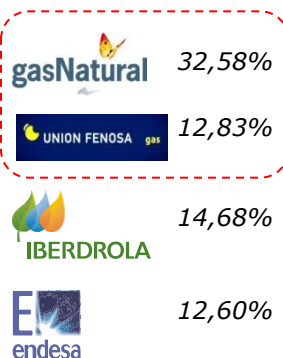
Demand by Customer



Total 2010 = 413.9 TWh

Gas Value Chain

Key Players



Spanish gas system technical manager, owns most of the gas transport infrastructure:

90% of the network

3 + 40%
regasification
plants, out of 6

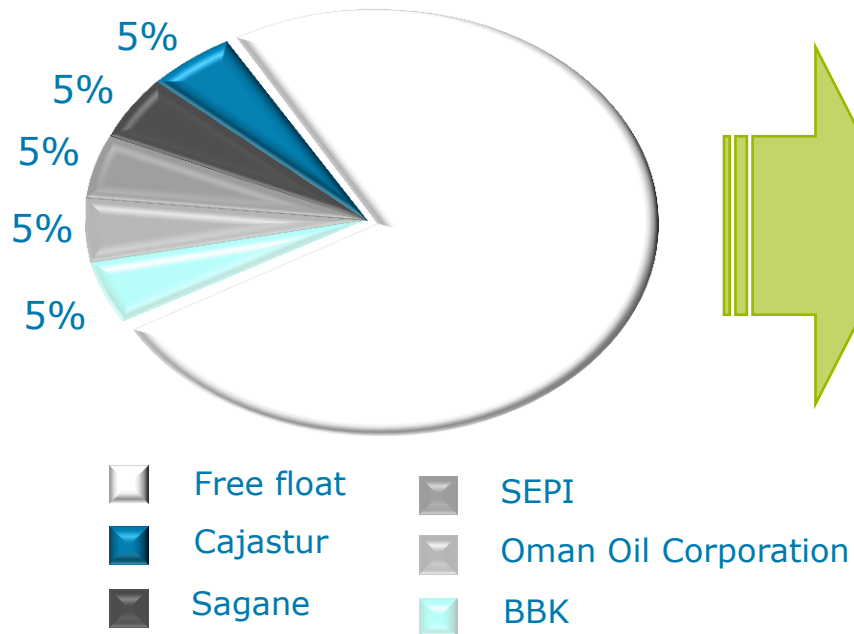
2 underground
gas storages



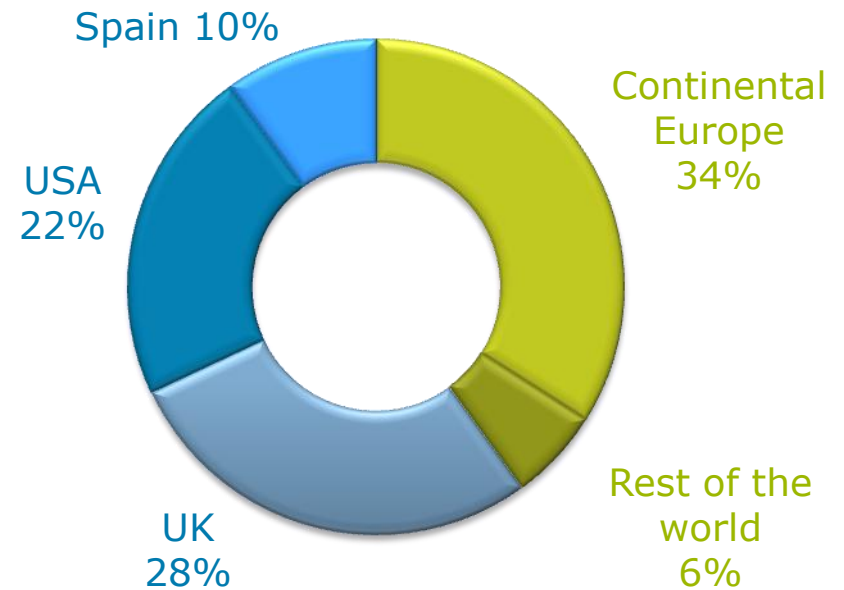
- **Last resort tariff:** Gas Natural-Fenosa, Naturgas, Endesa, Iberdrola
- **Liberalised:** > 20 players

Key role in fast-growing gas sector, in a country fully dependant on imports.

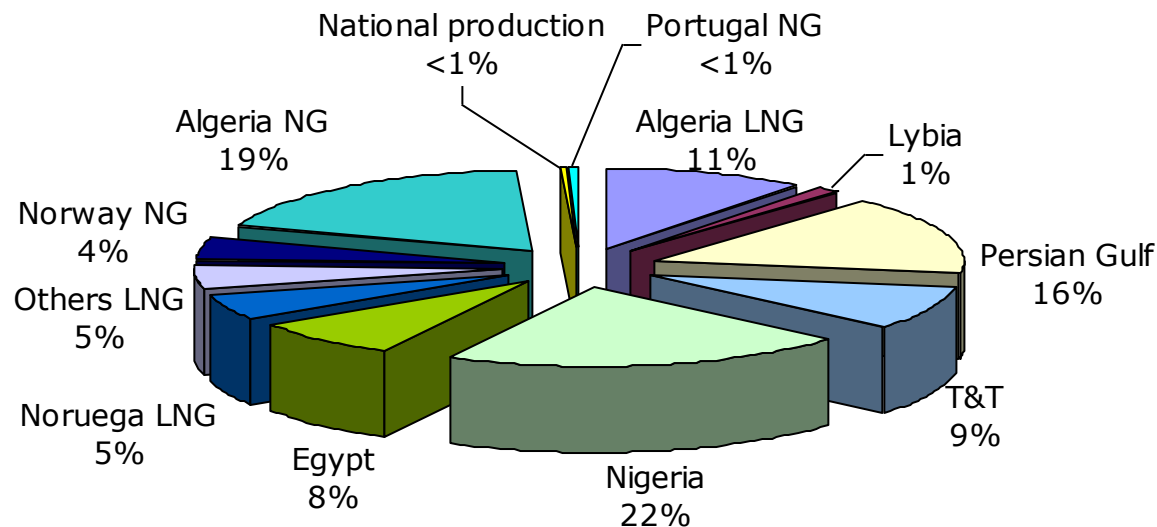
Shareholder structure



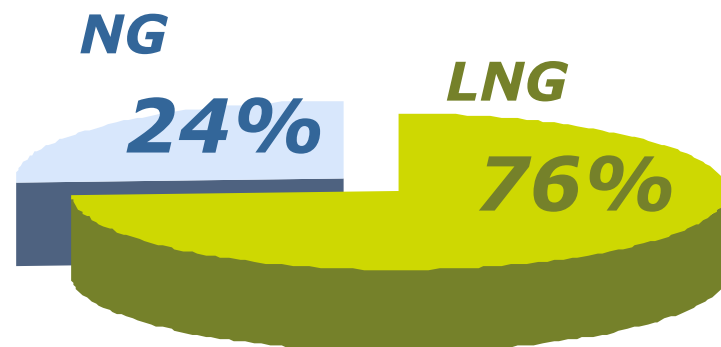
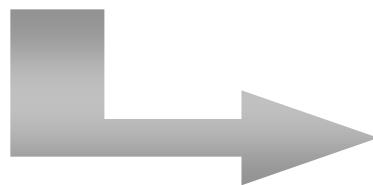
Free float



Supply Diversification 2010



**2010 supplies
to Spain 414
TWh**



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Transparency requirements

Regulation

Observations

Draft COMMISSION DECISION of [...] amending Chapter 3 of Annex 1 to Regulation (EC) no 715/2009 on conditions for access to the natural gas transmission network
Implementación de las Directrices de Transparencia

Noviembre 2010
 Enagás S.A.
 Dirección Regulación
www.enagas.es

ANEXO 1	DIRECTRICES DE TRANSPARENCIA	REGULACIÓN ESPAÑOLA	OBSERVACIONES
3.1.2.	<p>Content of Publication Transmission system operators shall publish at least the following information about their systems and services:</p> <p>(a) a detailed and comprehensive description of the different services offered and their charges;</p>	<p>El RD 949/2001 desarrolla la regulación del acceso de terceros a las instalaciones gasistas, estableciendo los criterios para la determinación, la definición, y la estructura, de los peajes y cánones de los servicios básicos de acceso por terceros, cuyos valores concretos son fijados mediante órdenes ministeriales.</p> <p>El artículo 29.2 del RD 949/2001 define los siguientes servicios básicos:</p> <ul style="list-style-type: none"> El servicio de transporte incluye el derecho al uso de las instalaciones necesarias para transportar el gas desde el punto de entrada al sistema de transporte de gas natural hasta los puntos de conexión con las redes de distribución o con las líneas directas, así como la utilización de un almacenamiento operativo. El servicio de regasificación dará derecho al uso de las instalaciones necesarias para la regasificación de GNL, además de un almacenamiento operativo de GNL en planta, de 	<p>Los servicios básicos ofrecidos por los transportistas, así como las tarifas de acceso son establecidos por la regulación.</p> <p>Enagás publica en su página web, en su función como transportista, las tarifas y servicios ofrecidos.</p> <p>http://www.enagas.es/cs/Satellite?cid=1146817742620&language=es&pagename=ENAGAS%2FPage%2FENAG_pintarContenidoFinal</p> <p>http://www.enagas.es/cs/Satellite?cid=1146232319783&language=es&pagename=ENAGAS%2FPage%2FENAG_pintarContenidoFinal</p>

Enagás had already implemented most of the requirements but some issues were identified

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Improvements

AVAILABLE CAPACITY									
NOTABLE POINT: BARCELONA									
REGASIFICATION									
Date	Infrastructure	Access	Nominal Capacity	Minimum Technical	Contracted Capacity	Nominated	Available Capacity	Contrated and not used capacity	Used Capacity
Feb-09-11	PR.BCN	Regasification	544.28	128.00	317.40	237.88	226.89	79.51	
Feb-10-11	PR.BCN	Regasification	544.28	128.00	317.40	274.54	226.89	42.85	
Feb-11-11	PR.BCN	Regasification	544.28	128.00	317.40	246.64	226.89	78.74	
Feb-12-11	PR.BCN	Regasification	544.28	128.00	317.40	169.19	226.89	148.21	
Feb-13-11	PR.BCN	Regasification	544.28	128.00	317.40	167.19	226.89	150.21	
Feb-14-11	PR.BCN	Regasification	544.28	128.00	317.40	257.99	226.89	59.40	
Feb-15-11	PR.BCN	Regasification	544.28	128.00	317.40	255.69	226.89	61.71	
Feb-16-11	PR.BCN	Regasification	544.28	128.00	317.40	253.66	226.89	63.74	
Feb-17-11	PR.BCN	Regasification	544.28	128.00	317.40	253.64	226.89	63.74	
			544.28	128.00	317.40	254.93	226.89	62.46	
			544.28	128.00	317.40	208.19	226.89	109.20	
			544.28	128.00	317.40	184.94	226.89	132.45	
			544.28	128.00	317.40	203.40	226.89	114.00	
			544.28	128.00	317.40	202.46	226.89	114.94	
			544.28	128.00	317.40	202.46	226.89	114.94	
			544.28	128.00	317.40	163.90	226.89	153.50	
			544.28	128.00	317.40	149.63	226.89	167.76	
			544.28	128.00	317.40	123.15	226.89	194.24	
			544.28	128.00	317.40	137.15	226.89	180.24	
			544.28	128.00	317.40	152.63	226.89	164.76	
			544.28	128.00	311.46	141.06	232.82	170.41	
			544.28	128.00	311.46	169.10	232.82	142.36	
			544.28	128.00	311.46	169.03	232.82	142.44	
			544.28	128.00	311.46	169.12	232.82	142.35	
			544.28	128.00	311.46	130.23	232.82	181.23	
			544.28	128.00	311.46	129.60	232.82	181.86	
			544.28	128.00	311.46	154.87	232.82	156.60	

Renominations

Nominations

Enagás publishes the information for all infrastructures (transmission, LNG and UGS) under the same circumstances

Improvements



Booking

LNG TERMINALS

	Barcelona	Cartagena	Huelva	Bilbao	Sagunto	Mugardos	Total
Regasification	221.0	103.4	245.9	130.4	130.2	75.0	905.9
Truck Loading	13.0	9.3	15.0	0.0	6.0	3.6	47.0
Total	234.0	112.7	260.9	130.4	136.2	78.6	952.9

INTERNATIONAL INTERCONNECTION POINTS

	Tarifa	Larrau	Euskadour	Badajoz	Tuy	Almería	Total
Inflows	258.7	95.7	10.0	12.1	0.0	134.7	511.2
Outflows	0.0	19.4	4.0	45.2	19.2	0.0	87.8

UNDERGROUND STORAGE

Capacity
28,070.2

NATIONAL GAS FIELDS

Injection	Extraction
0.0	1.6

TRANSMISSION 1,486.2

Demand

NATIONAL DEMAND

Total	1,026.7
Conventional	705.3
Truck Loading	43.7
Trans. Pipeline	661.6
Electricity Sector	321.4
% U. Factor ctcc's	25.31%

EXPORTS

Gas in transport	Other
36.8	0.0

TOTAL 1,100.1

LNG Plants

IPs

UGS

Demand

Enagás provides a preliminary overview of the physical situation of the system

Improvements



LNG Plants

IPs

UGS

Transmission

Linepack Real value & forecast

Transmission System Status

LNG TERMINALS

	Barcelona	Cartagena	Huelva	Bilbao	Sagunto	Mugardos	Total
Stock Tk's 0:00 h	1,971.9	1,924.5	1,862.9	1,456.9	2,195.2	866.0	10,277.4
m3 LNG	285,003	278,147	269,250	210,560	317,269	125,161	1,485,390
LNG Unloaded	0	0	12,258	0	0	0	12,258
Unloading Ships	-	-	-	-	-	-	-
LNG Transfer	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Regasification	131.7	89.6	146.3	94.0	95.9	37.2	594.6
Truck Loading	10.6	9.4	15.4	0.0	4.3	4.0	43.7
Stock Tk's 24:00 h	1,826.2	1,825.7	1,794.4	1,361.6	2,094.9	823.2	9,725.9
m3 LNG	263,941	263,863	259,337	196,795	302,774	118,976	1,405,686
% Tank filling	31%	45%	41%	66%	67%	40%	45%

Equivalent Autonomy (Days) 13.6 days

INTERNATIONAL INTERCONNECTION POINTS

	Tarifa	Larrau	Euskadour	Badajoz	Tuy	Almería	Total
Inflows	216.3	104.3	6.2	0.0	0.0	109.1	436.0
Outflows	0.0	0.0	0.0	14.8	0.0	0.0	14.8

UNDERGROUND STORAGES (WORKING GAS)

	Injection	Extraction	Stock. 0:00 h	Stock 24:00 h
Serrablo	0.0	0.0	10,005.6	10,005.6
Gaviota	36.6	0.0	17,708.1	17,744.8
Total	36.6	0.0	27,713.7	27,750.3

NATIONAL GAS FIELDS

Injection	Extraction
0.0	1.1

TRANSMISSION

	LNG Terminals	International IP*	Underground Storage	National Gas Fields	Other	Total
Net Inflows	594.6	421.2	-36.6	1.1	0.0	980.2

*Interconnection Points

LINE PACK

0:00 h	24:00 h
2,293.4	2,277.6

Improvements - Secondary Market

Type of capacity offered Point Service Offered/demanded capacity

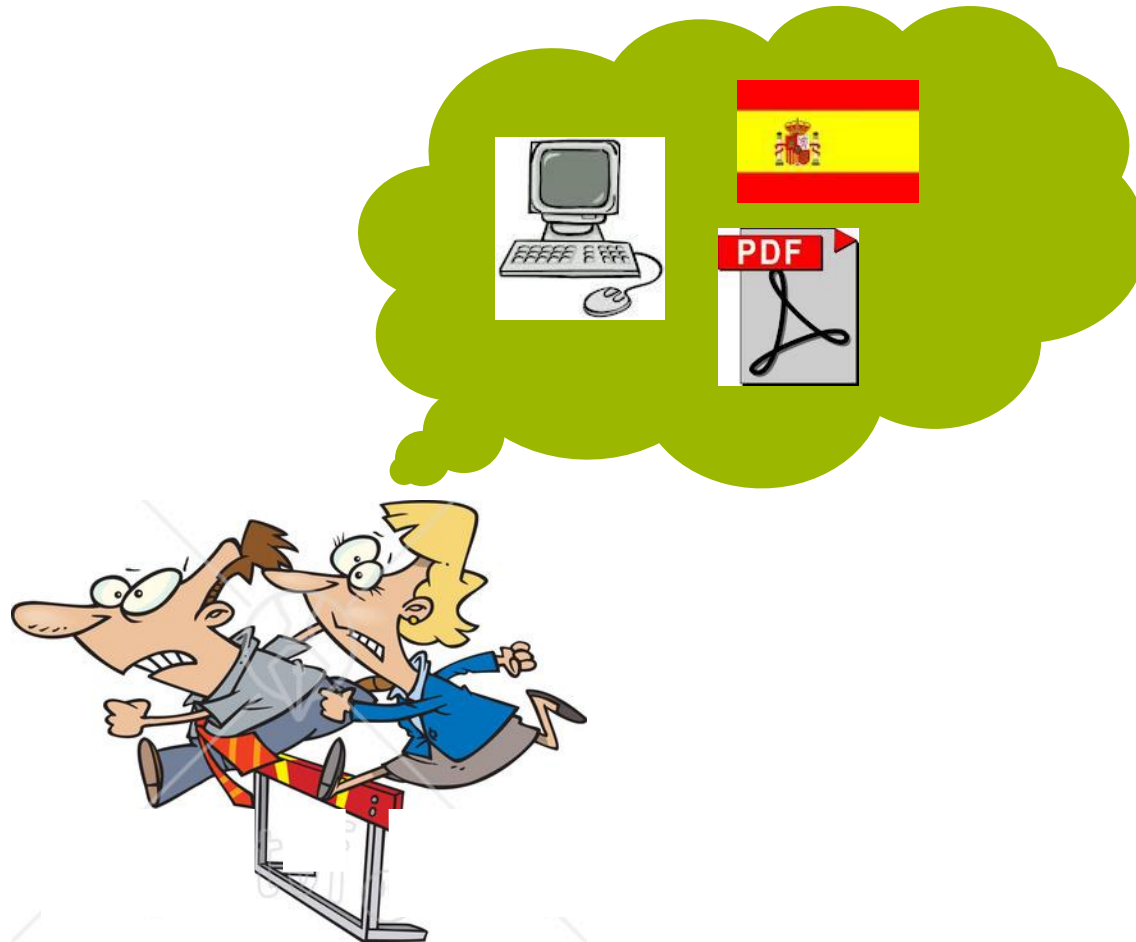
SOLICITUDES DE OFERTA/DEMANDA DE CAPACIDAD

Nº solicitud	Fecha recepción	Oferta / Demanda	Nueva / Existente	Infraestructura	Servicio	Fecha de inicio	Fecha de fin	[MWh/día] Capacidad ofertada / demandada	Casación parcial	Precio C/MWh/d	Razón social de la compañía	Nombre de contacto	Teléfono	e-mail
MS16	26/08/2010	Oferta	Nueva	Larrau	Reserva de capacidad	01/09/2010	31/03/2011	2.600	SI	-				
MS17	16/09/2010	Demanda	Nueva	Larrau	Reserva de capacidad	01/12/2010	31/03/2011	2.600	SI	-				
MS24	13/10/2010	Oferta	Nueva	Cartagena	Reserva de capacidad	15/10/2010	31/12/2027	10.000	NO	-				
MS25	13/10/2010	Demanda	Nueva	Cartagena	Reserva de capacidad	15/10/2010	31/12/2027	10.000	NO	-				
MS26	20/10/2010	Oferta	Nueva	Larrau	Reserva de capacidad	01/11/2010	31/03/2013	1.140	NO	-				
MS27	20/10/2010	Oferta	Nueva	Larrau	Salida C.I. desde AOC	01/11/2010	31/03/2013	1.959	NO	-				
MS28	20/10/2010	Demanda	Nueva	Larrau	Reserva de capacidad	01/11/2010	31/03/2013	1.140	NO	-				
MS29	20/10/2010	Demanda	Nueva	Larrau	Salida C.I. desde AOC	01/11/2010	31/03/2013	1.959	NO	-				
MS30	30/11/2010	Oferta	Nueva	Cartagena	Reserva de capacidad	01/01/2011	31/12/2027	10.000	NO	-				
MS31	30/11/2010	Demanda	Nueva	Cartagena	Reserva de capacidad	01/01/2011	31/12/2027	10.000	NO	-				
MS32	17/12/2010	Oferta	Nueva	Barcelona	Reserva de capacidad	01/01/2011	31/12/2021	9.931	NO	-				
MS33	17/12/2010	Demanda	Nueva	Barcelona	Reserva de capacidad	01/01/2011	31/12/2021	9.931	NO	-				
MS34	13/01/2011	Oferta	Nueva	Barcelona	Regasificación	01/02/2011	30/06/2011	4.500	NO	-				
MS35	13/01/2011	Oferta	Nueva	Barcelona	Reserva de capacidad	01/02/2011	30/06/2011	4.500	NO	-				
MS36	14/01/2011	Demanda	Nueva	Barcelona	Regasificación	01/02/2011	30/06/2011	4.500	NO	-				
MS37	14/01/2011	Demanda	Nueva	Barcelona	Reserva de capacidad	01/02/2011	30/06/2011	4.500	NO	-				
MS38	20/01/2011	Oferta	Nueva	Barcelona	Carga de Cisternas	01/02/2011	31/12/2011	700	NO	-				
MS39	24/01/2011	Demanda	Nueva	Barcelona	Carga de Cisternas	01/02/2011	31/12/2011	700	NO	-				
MS40	21/03/2011	Oferta	Nueva	Barcelona	Regasificación	01/04/2011	31/12/2012	4.000	NO	-				
MS41	22/03/2011	Demanda	Nueva	Barcelona	Regasificación	01/04/2011	31/12/2012	4.000	NO	-				
MS42	23/09/2011	Oferta	Nueva	Barcelona	Regasificación	01/10/2011	31/12/2034	100	NO	-				
MS43	23/09/2011	Demanda	Nueva	Barcelona	Regasificación	01/10/2011	31/12/2034	100	NO	-				

Window

- Enagás
- Analysis
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- Conclusions

Obstacles faced



Way forward



- Enagás
- Analysis
- Improvements
- Obstacles faced
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- Enagás publishes the information for the three basic infrastructures (transmission, LNG and UGS) on an equal basis
- The website is now more user friendly and is always under continuous improvements
- Great effort made towards the publication of information in both languages
- More and more documentation is downloadable, allowing for more quantitative analysis
- Enagás publishes the best available information

Leader

in natural gas transport

Enagas, carrier and System Technical Manager, guarantees the continuity and security of natural gas supply.



Investor Relations

[Third Quarter 2011 Results Presentation](#)
25/10/2011
10.00 am»

[Webcast Access»](#)

Gas Transmission

[Tolls and Fees Simulator for the full year 2011 »](#)

Corporate Governance

[Enagás steps up best practice benchmarking on corporate governance and corporate social responsibility »](#)

Annual Report

2010



Spanish Gas System Map



LATEST NEWS

25/10/2011
Enagás' net profit climbs 6.2% year-on-year to €270.8Mn »

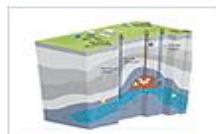
27/09/2011
Energy sector companies create the Energy and Environmental Sustainability Foundation »

16/09/2011
Enagás purchases 41.94% of Gascan »

14/09/2011
Vopak and Enagas successfully complete acquisition of LNG storage and regasification terminal in Altamira, Mexico »

08/09/2011
Enagás world leader in the utilities sector of the Dow Jones Sustainability Index »

YELA UNDERGROUND STORAGE



Yela Underground Storage will be crucial to the Spanish Gas System due to its strategic location in the centre of the Peninsula »

EL MUSEL REGASIFICATION PLANT



El Musel Regasification Plant is under construction. For further information, you can consult an infographic. »

ENAGAS	-3.04 % ▼	13.215
IBEX 35	-2.20 % ▼	8,127.40

[Access to Logistics System for Third Party Network Access \(SL-ATR 2.0 Portal\)>>](#)

[DAILY GAS DEMAND](#)
[See enlarged graph of daily demand >>](#)



[HUMAN RESOURCES](#)
[Enagás' Careers Site >>](#)



[TECHNICAL MANAGEMENT OF THE SYSTEM](#)
[Launching of the process for the new Planning 2012-2020 >>](#)



[GAS SYSTEM REPORTS](#)
[Annual Report of Spanish Gas System 2010 >>](#)



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Thanks for your attention

www.enagas.es

Brussels, 23 November 2011