

Detail of the transportation activity in 2010

	No. of voyages	Unloaded quantity	Laden miles	Total miles
Fleet		(Mm ³)	(nm)	(nm)
Lng Portovenere	26	1,552	29.426	45.428
Lng Elba	23	0.867	21.374	35.156
Lng Palmaria	15	0.560	13.373	23.450
Lng Lerici	41	2,546	26.122	52.525
Total	105	5,525	90.295	156.559

In 2010 the LNG volume transported by the fleet amounts to 5,525 millions of m³ (equivalent to about 2,506 miliards of m³ of natural gas), splitted as follows:

- 2,979 Mm³ on behalf of Gas & Power Division
- 2,546 Mm³ on behalf of Third Parties

PERSONNEL BREAKDOWN BY PROFESSION UP TO december 31st, 2010

Professional category	HEAD OFFICE PERSONNEL				SHIPBOARD PERSONNEL				TOTAL SHIPBOARD PERSONNEL	GENERAL TOTAL
	LNG	<i>hired</i>			Hired people with open contracts	Italian people hired with end contracts	EC people hired with end contracts	Ex-EC people hired with end contracts		
		to Eni G&P	to Saipem	from Eni G&P						
Senior Managers				1						1
Mangers	2	3		2						7
Employees	4			2						6
Masters					7				7	7
Chief Engineers					5	1			6	6
Officers					14	23	2	11	50	50
Petty Officers					27	1	3	1	32	32
Ratings					23	31	4		58	58
TOTAL	8	1		4	76	56	9	12	153	167

Training activity

	2008				2009				2010			
	Health	Safety	Envir.	Other	Health	Safety	Envir.	Other	Health	Safety	Envir.	Other
No. of trainees	3	78	0	46	6	251	0	38	15	134	0	62
Training course hours	96	2.668	0	529	80	5.754	0	738	152	3.236	0	672
Total cost (euro)	166.000				297.000				262.000			

HEALTH - Qualified doctor / Preventive

	2008	2009	2010
Inspections	8	7	8
Shipboard personnel check-ups	426	406	438
of which audiometries	213	203	219
of which spirometries	213	203	219
Preventive check-ups before embarkment	498	499	509

INJURIES – Injury frequency rate and injury severity rate

		2008	2009	2010
Lng Shipping Personnel	Frequency rate	15,59	3,77	3,75
	Severity rate	1,18	0,24	0,42
Personnel from others companies (contractors and/or employees different from shipboard personnel)	Frequency rate	9,4	0	0
	Severity rate	0,35	0	0
General indexes (media)	Frequency rate	14,55	3,77	3,75
	Severity rate	1,04	0,24	0,42

Tipology	2008	2009	2010
Injury reports	8	4	4
Accident reports	0	0	0
Near misses accident reports	20	25	34

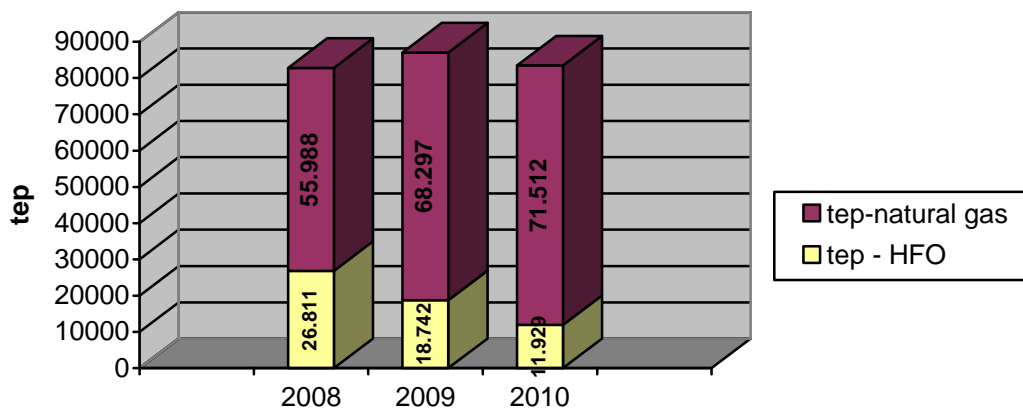
Injury splitting by cause	2008	2009	2010
Human error/lack of attention	6	3	2
Incorrect/incomplete procedurs	0	0	0
Protective clothing not worn	0	1	0
Suspected dangerous areas	0	0	0
Defects in materials/tools	1	0	0
Other causes	1	0	2

Injury splitting by vessel	2008	2009	2010
Lng Elba	4	1	0
Lng Palmaria	1	2	2
Lng Lerici	3	0	1
Lng Portovenere	0	1	1

Historical data of fleet consumption and emissions

Energetic consumption per navigation miles

	year	2008	2009	2010
Natural gas	(tep)	55.988	68.297	71.512
Fuel oil (HFO)	(tep)	26.811	18.742	11.929
Diesel oil (MDO)	(tep)	241	336	1.370
Total	(tep)	83.040	87.375	84.811
Number of voyages		103	120	105
Total navigation miles	(miles)	151.225	180.012	156.559
Consumption index	(tep/miles)	0,549	0,485	0.542



Consumption percentages of fossil fuel per year

	year	2008	2009	2010
Natural gas	(%)	67.6	78,5	85,7
Fuel oil (HFO)	(%)	32.4	21.5	14,3

Atmospheric emissions

	year	2008	2009	2010
CO ₂	(ton)	218.966	222.053	210.776
NO _x	(ton)	189,23	139,3	162,6
SO _x	(ton)	1.736	1.218	771,7
CO	(ton)	10,34	9,22	17,13
PST	(ton)	47,58	35,16	22,21

Atmospheric emissions index

	Year	2008	2009	2010
CO ₂	(kg/miles in navigation)	1.448	1.233	1.346
NO _x	(kg/miles in navigation)	1,251	0,773	1,038
SO _x	(kg/miles in navigation)	11,479	6,766	4,929
CO	(kg/miles in navigation)	0,068	0,051	0,109
PST	(kg/miles in navigation)	0,314	0,195	0,141

Here below follow data regarding energetic consumption and emissions for each vessel.

General operational data

		Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
Number of voyages	2008	16	25	42	20
	2009	22	19	52	27
	2010	23	15	41	26
Total miles in navigation	2008	21.223	39.662	52.538	37.802
	2009	33.479	32.878	62.736	50.919
	2010	35.156	23.450	52.525	45.428

Related energetic consumption

		Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
Natural gas (tep)	2008	12.543	18.629	12.777	12.039
	2009	15.122	12.775	20.544	19.856
	2010	17.205	12.518	22.756	19.033
Fuel oil (HFO) (tep)	2008	4.698	7.077	6.440	8.596
	2009	4.367	5.160	2786	6.430
	2010	3.668	3.316	1.078	3.867
Diesel oil (MDO) (tep)	2008	20	33	127	61
	2009	14	45	183	93
	2010	824	26	201	320
Total (tep)	2008	17.261	25.739	19.344	20.696
	2009	19.503	17.980	23.513	26.379
	2010	21.696	15.860	24.035	23.220

Atmospheric emissions

			Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
CO ₂	(ton)	2008	44.714,98	66.743,33	51.234,38	56.272,99
		2009	49.682,33	46.834,32	57.819,60	67.716,96
		2010	54.816,40	40.201,95	57.542,47	58.194,96
NO _x	(ton)	2008	33,78	49,57	46,63	59,25
		2009	29,51	35,0	29,6	45,1
		2010	74,9	23,2	20,6	43,9
SO _x	(ton)	2008	303,47	457,20	418,98	555,99
		2009	281,97	332,64	185,10	417,27
		2010	238,10	213,82	69,89	249,92
CO	(ton)	2008	1,44	2,32	3,42	3,18
		2009	1,43	2,09	2,65	3,05
		2010	9,23	1,24	2,25	4,41
PST	(ton)	2008	7,35	11,8	13	15,42
		2009	7,63	9,80	5,03	12,69
		2010	7,14	5,85	1,56	7,65

Atmospheric emission index

			Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
CO ₂	(kg/miles in navigation)	2008	2.107	1.683	975	1.488
		2009	1.484	1.425	1.766	1.330
		2010	1.559	1.714	1.095	1.281
NO _x	(kg/miles in navigation)	2008	1,591	1,249	0,887	1,567
		2009	0,881	1,065	0,472	0,886
		2010	2,130	0,989	0,392	0,966
SO _x	(kg/miles in navigation)	2008	14,299	11,527	7,974	14,707
		2009	8,423	10,117	2,950	8,195
		2010	6,772	9,118	1,330	5,501
CO	(kg/miles in navigation)	2008	0,067	0,058	0,065	0,084
		2009	0,043	0,064	0,042	0,060
		2010	0,262	0,053	0,042	0,097
PST	(kg/miles in navigation)	2008	0,346	0,297	0,247	0,407
		2009	0,228	0,298	0,080	0,249
		2010	0,203	0,249	0,029	0,168

Wastes produced by the fleet

	year	2008	2009	2010
total wastes	(m ³)	673	795	946

			Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
Wastes comparable to urban ones	Incinerated	2008	0	0	4,70	13,45
		2009	0	0	5	8,15
		2010	0	0	5,20	7,90
Wastes comparable to urban ones	Disposed overboard	2008	20,50	42,10	14,80	23,50
		2009	10,60	16,35	23,60	16,50
		2010	31,10	5,50	22,10	15,10
Wastes comparable to urban ones	Disposed ashore	2008	181,10	116,62	123,30	125,76
		2009	174,91	261,41	136,40	127,40
		2010	214,20	199,09	158,80	189,60
Special wastes	Assigned to specialized companies	2008	4,4	0	0	3
		2009	0	11	2,3	2
		2010	1,8	0	2	84,3

Bilge and ballast water

	year	2008	2009	2010
Bilge water	(m ³)	468	556	555
Ballast water	(m ³)	1.950.000	2.810.000	2.218.500

			Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
Bilge water	(m ³)	2008	159	85	108	116
		2009	0	231	160	165
		2010	66	0	0	110
Ballast water	(m ³)	2008	363.603	275.554	930.000	380.000
		2009	439.871	370.971	1.460.000	540.000
		2010	318.808	312.134	1.090.410	497.200

Chemical products onboard

			Lng Elba	Lng Palmaria	Lng Lerici	Lng Portovenere
Chemical products (Lt)	Chemical agents	2008	2768	2262	2618,1	2890
		2009	1495	2169	1363	2997
		2010	2152	1459,16	1457	2465
	Paints	2008	4380	4134	4602	3867,5
		2009	3160	3896	3229	3917,5
		2010	4580	4695	19453	3435
	Solvents	2008	730	560	1012	1015
		2009	750	863	650	825
		2010	1000	580	3225	930