

2nd InterEnerStat Workshop

The Eurogas Statistics Committee and Forecasting Task Force

IEA, Paris, 19 – 20 November 2007

***Presentation by
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Chairman Statistics Committee
EUROGAS***

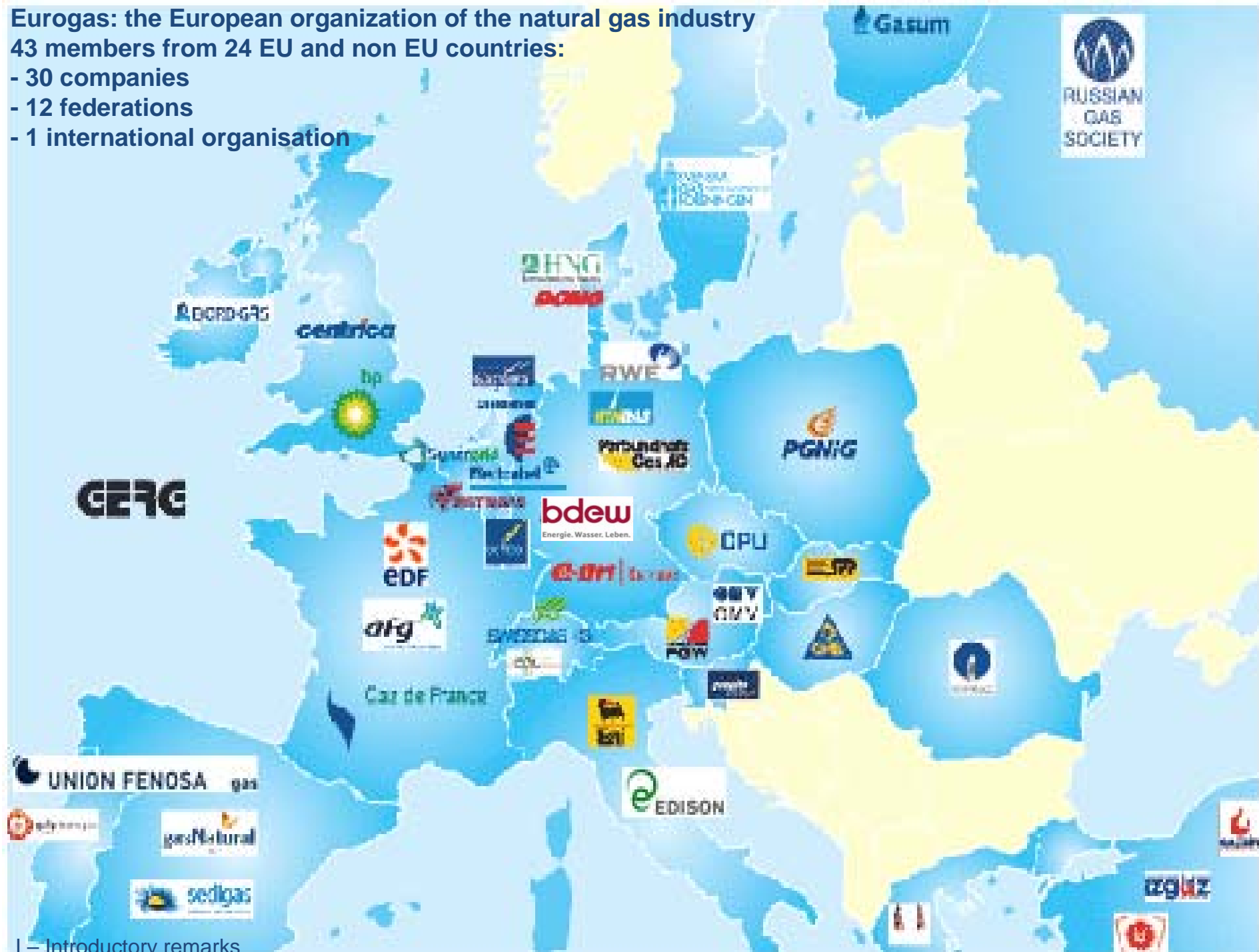


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43 members from 24 EU and non EU countries:

- ## I – Introductory remarks



Eurogas has several ad-hoc Committees and Task Forces among which: the High Level Advisory Statistics Committee and Forecasting Task Force



II) The Eurogas Statistics Committee

23 Members from 19 EU and non EU Countries

Mission:

Promoting collaboration, sharing and improving information in the field of energy statistics

Key energy statistics activities:

Primary and final energy consumption, natural gas sales by sector and imports by pipeline and LNG

Publications:

- Every year: comparative result of statistics questionnaire on evolution on natural gas consumption => Primary source of information on natural gas in Europe as it is directly provided by the industry.
- This year's results (EU27 + Turkey and Switzerland) will be made public in December 2007 (Eurogas Annual Report)

The Committee also...

- contributes actively to the development and implementation of all European initiatives related to energy statistics, including the Energy Observatory, the follow-up of the Energy Statistics Regulation, the Gas Coordination Group and others
- regularly meets with representatives of Eurostat and DG TREN, participate in the EU-Russia Working Group on Energy Strategies, scenarios and forecasts

Statistical Part of Eurogas Annual Report:

PEC, FEC, Natural gas consumption per sector, indigenous production, EU imports, stock changes, LNG imports, description of storage facilities, number of customers, number of employees, length of pipeline

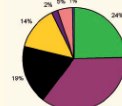
1. Primary Energy Consumption

2006 Primary Energy Consumption in EUROGAS member countries & EU27

		Gold Cost (\$/oz)	Reagent Cost (\$/oz)	Fluorine Residue (\$/oz)	Aluminum Residue (\$/oz)	Organic Residue (\$/oz)	Other Residues (\$/oz)	Total
AUSTRIA	11.29	3.12	7.79	0.00	2.56	0.81	0.35	20.91
BE LUXEM	14.21	2.48	8.81	12.15	0.00	3.44	0.46	39.15
BELGIUM	12.00	2.48	7.04	0.00	0.00	0.00	0.00	21.52
CANADA (PACIFIC)	23.1	21.4	0.97	6.19	0.26	-2.03	1.18	49.67
CANADA (EAST)	23.1	21.4	0.97	6.19	0.26	-2.03	1.18	49.67
CHINA	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
COLUMBIA	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
FRANCE	11.30	14.11	36.98	117.32	0.48	1.44	1.38	172.93
GERMANY	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
INDONESIA	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
ITALY	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
JAPAN	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
NETHERLANDS	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
PERU	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
RUSSIA	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
SPAIN	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
THAILAND	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
UNITED STATES	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
UNITED KINGDOM	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52
YUGOSLAVIA	11.00	2.48	6.04	0.00	0.00	0.00	0.00	19.52

2006 Primary Energy Consumption
(PEC) per capita and per GDP unit

	PER Capita	PER GDP
Austria	4.06	0.14
Belgium	2.53	0.20
Bulgaria	2.50	0.07
Czech Republic	2.46	0.07
Denmark	3.42	0.11
Estonia	3.04	0.25
Finland	3.74	0.22
France	4.26	0.17
Germany	4.02	0.16
Greece	2.78	0.18
Hungary	2.74	0.43
Ireland	2.66	0.11
Italy	3.22	0.16
Japan	2.17	0.35
Lithuania	2.52	0.44
Luxembourg	10.45	0.17
Netherlands	4.47	0.17
Norway	2.52	0.25
Portugal	2.62	0.22
Romania	1.51	0.48
Slovakia	2.63	0.64
Slovenia	3.29	0.47
Spain	3.30	0.18
Sweden	2.48	0.17
United Kingdom	2.50	0.12
EU22 TOTAL	3.69	0.19
Switzerland	2.72	0.06

2006 Primary Energy Consump
by fuel (EU25)

2. Final Energy Consumption

2006 Final Energy Consumption (FEC) in EUROGAS member countries & EU2

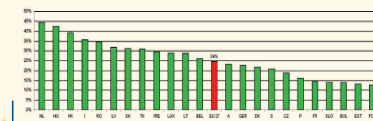
	Age	Sex	Height (cm)	Weight (kg)	Bodyfat (%)	Glucose (mmol/L)
1. BELTONE	1.82	102	1.82	8.05	9.68	2.0
2. BELTONE	1.80	100	1.82	11.40	8.82	2.0
3. BELTONE	1.80	100	1.82	11.40	8.82	2.0
4. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
5. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
6. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
7. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
8. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
9. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
10. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
11. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
12. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
13. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
14. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
15. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
16. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
17. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
18. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
19. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
20. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
21. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
22. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
23. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
24. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
25. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
26. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
27. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
28. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
29. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
30. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
31. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
32. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
33. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
34. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
35. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
36. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
37. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
38. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
39. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
40. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
41. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
42. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
43. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
44. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
45. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
46. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
47. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
48. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
49. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
50. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
51. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
52. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
53. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
54. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
55. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
56. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0
57. CHOCOLATE	1.80	100	1.82	11.40	8.82	2.0

3. Inland deliveries

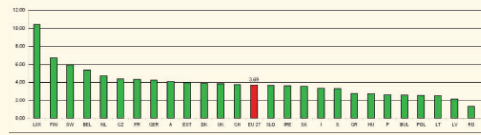
2006 Inland Sales of Natural Gas by sector in Eurogas Member Countries and EU27

[illegible]

2006 Share of Natural Gas in Primary Energy Consumption (%)



2006 Primary Energy Consumption per capita (TOE)



2006 Primary Energy Consumption by fuel (EU27)



2006 Natural Gas sales by sector (EU27)



4. Natural Gas Supplies

Eurogas Member Countries and EU27

[illegible]

Breakdown of EU27 Natural Gas Net-Supplies



5. LNG Imports

2006 LNG Supplies in EUROGAS Member Countries and EU27

	2016 Imports
GERMANY	\$56.15
FRANCE	\$54.80
SPAIN	\$7.80
ITALY	\$20.00
PORTUGAL	\$3.00
GREECE	\$25.45
UNITED KINGDOM	\$26.00
EU 27	\$236.25

2006 Net-import from
non EU countries by
transport EU25



Breakdown of EU27
Supplies of LNG (EU25)



6. Storage Facilities

Natural Gas Storages at 1 January 2007

[illegible]

7. Natural Gas Industry in Figures

Number
of employers[illegible]Number
of employers

	Number employees
AUSTRIA	211
BELGIUM	218
BULGARIA	254
CYPRUS REPUBLIC	248
CZECHIA	141
ESTONIA	1
FINLAND	1
FRANCE	2600
GERMANY	2910
GREECE	104
HUNGARY	356
IRELAND	1
ITALY	2000
Latvia	1
LITHUANIA	143
LUXEMBOURG*	2
NETHERLANDS	85
NORWAY	1340
PORTUGAL	71
ROMANIA	1
SLOVAKIA	234
SLOVENIA	45
SPAIN	3
SWEDEN	3
UNITED KINGDOM	3144
EU 27	20606
SWITZERLAND	1600

Length of pipelines

	Length of transmission population	Length of transmission population	Total length of transmission population
AUSTRIA	1818	18029	20047
BELGIUM	1800	2200	4000
BELGIUM (BRUSSELS)	1800	2200	4000
BULGARIA	1493	1790	3183
CANADA	1800	2200	4000
FRANCE	1100	1810	2910
GERMANY	1813	18087	20000
IRELAND	994	3992	4986
HUNGARY	1719	8092	9811
IRELAND	994	3992	4986
ITALY	2119	20000	22119
LATVIA	1201	4001	5202
LITHUANIA	1800	1800	3600
LUXEMBOURG*	406	1800	2206
NETHERLANDS	1100	11000	12100
POLAND	1719	1719	3438
PORTUGAL	1491	1191	2682
SPAIN	1800	2200	4000
SWEDEN	990	2400	3390
SWITZERLAND	1800	2200	4000
UNITED KINGDOM	1800	24000	25800
USA	1800	2200	4000
WEST GERMANY	2200	1800	4000

2006 data
available:
4th December

The Eurogas Statistics Committee: 23 members
 The Eurogas Forecasting Task Force: 20 members
 from 19 EU and non EU Countries

 Collaboration agreement



III) Eurogas Forecasting Task Force



20 Members from 19 EU and non EU Countries

Mission: "evaluating and analyzing the future role of natural gas in Europe"

Key energy forecasting activities:

Natural gas demand and supply outlook

Timeframe: 2005-2007

Coverage: EU27

Explanatory note

Publication:

November 2007: Natural gas supply and demand long term outlook to 2030 => results presented at the EC Gas Coordination Group

Content:

Energy efficiency, Energy intensity, Share of natural gas in PEC, Demand outlook by sector, Supply situation, Supply/demand, Import Dependency

IV) International Context



The gas industry is becoming more global (LNG)

⇒ Need for comparability of data internationally (coordination of data collection)

Therefore

Eurogas supports the InterEnerStat initiative

Cooperation between all actors responsible for data collection is paramount

How ?

- Need to further develop harmonisation and cooperation between Eurostat, IEA and UN (on energy efficiency and renewables)
- Promote extension of their collaboration to other organisations (regions)
- Continue communication and promotion of politicians understanding on statistic challenges
- Education and exchange of energy statistic know-how and experience (seminars)
- More statisticians (valorisation of profession)

Main objective => valorisation of energy statistics

V) European Context



Challenges in Europe:

Liberalisation of European gas market and various regulatory initiatives mobilise important resources from the industry both in term of human resources and capitals

EU new green policies related to the increasing climate change awareness result in a request for energy efficiency indicators

Natural gas statistics in Europe are becoming more politicised (European Energy Observatory, Security of Supply concerns,...)

But

Independent EU initiatives move away from main objective of international harmonisation

The new EU proposals (Amendments to Statistic Energy regulation) differ from the Common Eurostat-IEA-UN questionnaire

VI) Challenges in Harmonising Natural gas statistics

Natural gas data

- Different calorific values are based on average factors which causes comparability problems
 - Natural gas data should be expressed in PJ or kWh (thermal units), not in m³ (to avoid problem of different conversion factors)
- Influence of seasonal temperature differences (temperature corrected figures are only estimations and are not accurate enough for comparisons)
- Different collection methodologies
- Measure of energy efficiency indicators by requesting additional breakdowns for gas consumption is not realistic (part of gas consumed for heating, cooling,...)

VII) Since last year

Eurogas contribution to achieving the InterEnerStat objectives:

Main Objective: contribute to high quality level energy statistics

- Raising awareness of energy statistics – no more simple data, but communication effort to underline its importance (ex: Forecast was developed for first time as a press release and presented officially at Board and general assembly)
- The new Energy Statistics Regulation has raised the debate of to the political level – Eurogas has used this opportunity to communicate amongst its members on the importance and difficulty of energy statistics collection
- Eurogas is supporting the Eurostat version of the Energy Statistic Regulation and has been communicating and explaining at EU and national level that some of the proposed amendments are not necessary and realistic

Thank you for your attention !

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