



# **Gas Quality as part of the Framework Guideline on Interoperability Rules**

Geert Van Hauwermeiren  
Principal advisor, CREG

EC Workshop on Gas Quality  
5 December 2011



## **Overview**

- **ACER in the debate**
- **Work and vision developed on gas quality**
- **Possible future developments**

## ACER Framework Guideline development

In the spirit of the Third Energy Package, ACER Framework Guidelines shall :

- Encourage and facilitate efficient gas trading and transport within the EU and thereby move towards greater market integration.
- Promote and encourage more efficient network operation which will remove or lower any barriers to competition which may exist.
- only based on these principals, ACER is to identify harmonised rules as framework for the operation of transmission systems;

# Framework Guidelines developed by ACER

## 2011

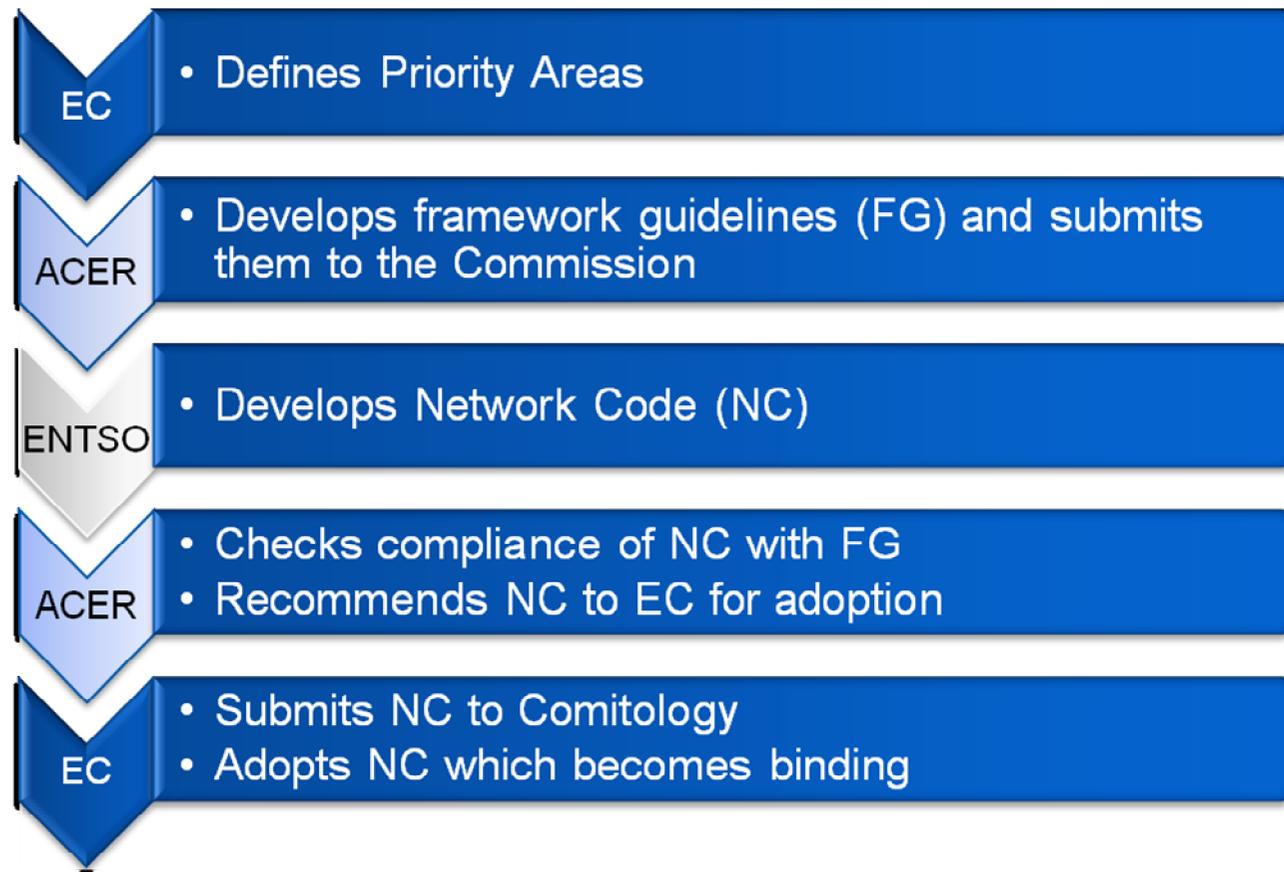
- Capacity Allocation Mechanisms
- Balancing
- Harmonised Transmission Tariff Structures (\*)
- Interoperability

\* Scoping phase

## 2012

- Interoperability (scoping in Q3/4 2011)
- Data Exchange and Settlement Rules
- Rules for Trading

# Developing Framework Guidelines and Network Codes



## Work and vision developed on gas quality

Based on work being developed within the Framework of the Madrid Forum:

- Madrid V and VI in 2002 :
  - Start of the investigations;
- Madrid XI and XII in 2006/2007:
  - First inventory study on interoperability studies;
- Madrid XX in 2011:
  - Cost-benefit analysis;

ACER's scoping exercise on interoperability issues last summer identified differences in gas quality as a possible barrier to trade.

# Example of inventory study: traffic lights

Location	IP Number	Country	Company		WImax	WImin	Hvmax	Hvmin	S	H2S	RSH	O2	CO2	WDP	HDP
Zeebrugge IZT	1B	UK	IUK	Exit	15.05*	14.14	12.38	10.81	30.0	5	/	0.10	2.5	-10	-2
		Belgium	Fluxys	Entry	15.00*	14.14	12.38	10.81	22.4*	5	/	0.001	2.0*	-10	-2
Zeebrugge IZT	1C	Belgium	Fluxys	Exit	15.00*	14.14	12.38	10.81	22.4*	5	/	0.001	2.0*	-10	-2
		UK	IUK	Entry	15.05*	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
Bacton	52A	UK	National Grid	Exit	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
		UK	IUK	Entry	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
Bacton	52B	UK	IUK	Exit	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
		UK	National Grid	Entry	15.05	14.14	12.38	10.81	30	5	/	0.10	2.5	-10	-2
Zeebrugge ZPT	1A	Norway	Gassco	Exit	15.47	14.17	12.78	11.17	30	5	6	0.0002	2.5	-12	-3
		Belgium	Fluxys	Entry	15.47	14.17	12.77	11.17	150*	5	6	0.1	2.5	-12	-3
Zeebrugge LNG	1D	LNG	Fluxys LNG	Exit	15.56	13.65	12.79	10.81	150(*)	5	/	0.50	2.0	-8	-2
		Belgium	Fluxys	Entry	15.56	13.65	12.79	10.81	150(*)	5	/	0.50	2.0	-8	-2
Eynatten	6A	Belgium	Fluxys	Exit	15.70	13.66	12.78	10.81	150(*)	5	/	0.10	3.0	-8	-2
		Germany	Wingas	Entry	15.00	14.14	11.61	10.97	22.4	5		0.0010	2.0	-10	-2
Eynatten	6B	Germany	Wingas	Exit	15.00	14.14	11.61	10.97	22.4	5		0.0010	2.0	-10	-2
		Belgium	Fluxys	Entry	15.00	14.14	11.61	10.81	22.4	5	/	0.0010	2.0	-10	-2
Eynatten	6C	Belgium	Fluxys	Exit	15.70	13.66	12.78	10.81	150(*)	5	/	0.50	3.0	-8	-2
		Germany	RWE	Entry	15.33	13.67	?	?	30	5	6	0.50	2.5	-8	-2
		Germany	E.ON Ruhrgas	Entry	15.33	13.67	?	?	30	5	6	0.50	2.5	-8	-2
Eynatten	6D	Germany	E.ON Ruhrgas	Exit	15.70	12.80									
		Belgium	Fluxys	Entry	15.00	14.14	12.38	10.81	22.4	5	/	0.0010	2.0	-10	-2

Key to Gas Quality Specification Comparison	
Entry Spec = Exit Spec	
Entry Spec wider than Exit Spec	
Exit Spec wider than Entry Spec	
Spec plan to be harmonized/changed	*

Source: EC Madrid Forum 20 & 21 February 2007 presentation on Interoperability [Wobbe in kWh/Nm<sup>3</sup>]

## Reflections on gas quality

- Each parameter within each specification at each IP has a complex technical and/or contractual historical reason for its presence;
- The reasons might still be valid, but European liberalisation has altered the framework:
  - Entry-exit systems;
  - Better internal interconnectivity;
  - Variety in supplies;
  - European Security of Supply measures;
- The gas quality issue will increase in importance.

## Aim and objective of future work:

- Harmonisation how to handle gas with different quality within Europe is needed but a balance needs to be found between costs and benefits
  - Rules are to be set to solve barriers to trade, not to intervene where no problem exists
  - To take other work into account appropriately;
    - CEN - EC studies - EASEE-gas- MS examples
- Consultation on problem identification and proposed rules on gas quality expected by the end of the Q1 2012.



Thank you for  
your attention

[www.acer.europa.eu](http://www.acer.europa.eu)