



June 2006

.....
**Survey on the Implementation of Market
Transparency Requirements in Countries
Involved in the Athens Process**

Preliminary Results

.....
Ad-hoc Group on South East Europe



The **Union of the Electricity Industry–EURELECTRIC** is the sector association representing the common interests of the electricity industry at pan-European level, plus its affiliates and associates on several other continents.

In line with its mission, EURELECTRIC seeks to contribute to the competitiveness of the electricity industry, to provide effective representation for the industry in public affairs, and to promote the role of electricity both in the advancement of society and in helping provide solutions to the challenges of sustainable development.

EURELECTRIC's formal opinions, policy positions and reports are formulated in Working Groups, composed of experts from the electricity industry, supervised by five Committees. This "structure of expertise" ensures that EURELECTRIC's published documents are based on high-quality input with up-to-date information.

For further information on EURELECTRIC activities, visit our website, which provides general information on the association and on policy issues relevant to the electricity industry; latest news of our activities; EURELECTRIC positions and statements; a publications catalogue listing EURELECTRIC reports; and information on our events and conferences.

EURELECTRIC pursues in all its activities the application of the following sustainable development values:

Economic Development

Growth, added-value, efficiency

Environmental Leadership

Commitment, innovation, pro-activeness

Social Responsibility

Transparency, ethics, accountability

Union of the Electricity Industry – EURELECTRIC

Survey on the Implementation of Market Transparency Requirements in Countries Involved in the Athens Process – Preliminary Results

June 2006

This Report has been prepared by the Ad-hoc Group on South East Europe.

Members of the Ad-hoc Group and other contributors:

Dimitri V. Papakonstantinou, Chairman (GR)

Amira Ademovic (BA), Gregorios Dalis (GR), Ruggero Arico (IT), Emil Arsov (MK), Mirjana Sareska (MK), Ljubica Cvenic (HR), Edit Kollar (HU), Zoltan Feleki (HU), Luminita Lupului (RO), Lucian Palade (RO), Dragomir Markovic (CS), Ljilja Mitrusic (CS), Aleksandar Mijuskovic (MO), Viktoriya Popovska (BG), Bernhard Raberger (AT), Reinhard Enzenebner (AT), Damjan Stanek (SI), Tomaz Lajovic (SI), Unal Terzi (TR), Mehmed Kara (TR), Hakki Ozata (TR)

EURELECTRIC Secretariat: Anne-Marie Rego, Ludmila Majlathova

The Report was adopted by the aforementioned group and WG Wholesale Markets & Trading in June 2006.

For further information on this Report please contact:

Ludmila MAJLATHOVA

Tel: +32 2 515 1071

E-mail: lmajlathova@eurelectric.org

Introduction

At the 2nd Mini-Forum for South East Europe on 27-28 March 2006, the **Union of the Electricity Industry - EURELECTRIC** formally presented the Industry's position on market transparency.

As a follow up, the 2nd South East Europe Mini-Forum tasked EURELECTRIC to *“prepare a report describing data that is being published by generators in the region. The EURELECTRIC report should also include the views of generators regarding the complete set of data that should be published. The results will be presented at the upcoming Athens Forum”*.

A survey was undertaken by EURELECTRIC's ad-hoc group on South East Europe, established in 2004 as a platform for EURELECTRIC members from the region to discuss electricity-market developments in the context of the emerging Energy Community and to provide input to the Athens Forum discussion.

In order to cover TSO-related data, the task was performed in close co-operation with, and contribution of SETSO members (the ETSO equivalent for South-East Europe).

Overall context of the discussion on market transparency

European Union

The EURELECTRIC position paper on market transparency, published in February 2006, was drawn up in direct response to a request made by the Electricity Regulatory Forum - the so-called “Florence Forum” - of September 2005 to *“provide a list of information that it considers market agents need to have in order to trade efficiently, where possible in co-ordination with traders, power exchanges and customers, with the aim to provide this list by November 2005”*.

In parallel, ETSO was asked to provide *“a list of the data TSOs need to ensure an optimal use of the existing infrastructure”*.

In the period that followed, three proposals were tabled:

- ETSO position paper (December 2005): “List of data European TSOs need to pursue optimal use of the existing transmission infrastructure”
- EURELECTRIC position paper (February 2006): “Position paper on market transparency”
- ERGEG consultation document (March 2006): “ERGEG Guidelines for Good Practice of Information Management and Transparency Markets” (a final recommendation of ERGEG to the Commission on the regulators' view on market transparency is due to be issued before the summer break).

At the same time, the European Commission (DG COMP) identified in its February preliminary report for the sector inquiry “a serious lack of transparency in the electricity wholesale markets”. Further work on this issue is ongoing by DG COMP and a final report on the sector inquiry investigation is announced for the end of 2006.

Besides those countries where transparency levels are already rather high (e.g. Nordic countries, UK), a number of initiatives towards further market transparency are currently under way. Based on the EURELECTRIC proposal, the leading generators in Germany (EnBW, E.ON Energy, RWE power and Vattenfall Europe) decided to publish production data from their power plants on the web site of the European Energy Exchange (www.eex.de) as of 10 April 2006. Data published includes installed capacity, available generation capacity on a daily basis and by energy source and net production per hour (published ex post). A similar approach is discussed in additional countries, although detailed information is not yet available.

In parallel with this process, ERGEG launched in February 2006 regional initiatives with the objective of establishing functioning and effective regional electricity markets as a step towards a competitive single European market. The focus will be on the practical issues that are most important to the further development of effective competition. One of the main issues on the agenda is market transparency and how to create a level playing field for Europe for this topic. Seven EU regional markets have been identified, with two of them of relevance for the SEE region (Central-South, Central-East). A regional organisation framework has also been set up to drive the whole process. In this framework, regions defined their priorities and scheduled their Mini-Fora in the period of May-July 2006. Outcomes of the EU Mini-Fora should be presented at the September 2006 Florence Forum.

South East European Region

The issue of transparency is underlined as one of the crucial elements of market design in the European Commission's Electricity Market options paper for SEE, finalised in December 2005. EURELECTRIC firmly believes that a level playing field on market transparency can be achieved through voluntary disclosure and on a coordinated basis with ERGEG and ETSO (re: EURELECTRIC presentation at the SEE Mini-Forum in March 2006).

However, when considering possible next steps, one should have in mind different status of market reforms and market opening in the region comparing to the EU countries and among countries themselves. The Energy Community Treaty, ratified by the EU on 29 May 2006, requires the implementation of relevant "*acquis communautaire*", through setting a later market opening deadline than for EU Member States – January 2008 instead of July 2004 for industrial and commercial customers, and January 2015 instead of July 2007 for all customers. A legal, functional and account unbundling of the TSOs should be in place at the latest 1 January 2008, for DSOs at the latest 1 January 2010. The recommended target date for the TSO is 1 January 2007 at the latest.

At the present, SEE countries are in the process of developing their market models and national market rules. One of the biggest challenges will be to ensure sufficient compatibility of the national market designs leading to the creation of an efficient regional market. The issue of market transparency is closely linked to the existence of market designs and should be dealt with in this context.

Main elements of the EURELECTRIC transparency proposal¹

⇒ *Transparency – an integrated part of the market development*

The development of common rules on market transparency should be put in a dynamic perspective and be duly accompanied by a process of further developing wholesale markets (this is set out in the EURELECTRIC road map towards a pan-European electricity market applying to the EU market). The EURELECTRIC vision envisages stepwise integration of electricity markets through the establishment of regional markets and the expansion of wholesale markets.

The market transparency paper echoes the regional framework as the best context in which to take forward transparency requirements. The paper sets out the key principles underpinning transparency arrangements and the need for a balanced assessment. Furthermore, it outlines the principles which should govern transparency requirements and provides a list of information that is useful for market agents to trade efficiently.

⇒ *Key principles of defining market transparency requirements:*

In determining transparency requirements, attention should be paid to ensuring that the arrangements proposed for market transparency do not:

- Undermine or distort competition;
- Reveal commercially confidential data;
- Place undue burdens on market participants;
- Incur excessive cost relative to the benefits.

In order to create a level playing field in a regional, and ultimately a pan-European market for all market participants, market data needs to meet the following requirements:

- The data should be made available under similar conditions to all market participants. In particular they should be authoritative, issued at the same time and be easily accessible.
- The data should as far as possible use standardised definitions and formats to facilitate processing and analysis by market participants and allow harmonisation across national borders.
- The data should enable market participants to operate with a sufficient degree of confidence.

¹ The EURELECTRIC Position Paper can be found on the EURELECTRIC web-site – www.eurelectric.org. A core of the EURELECTRIC proposal – "a list of information that is useful for market agents to trade efficiently" constitutes a basis of a questionnaire, which was used in this survey and is attached in the Annex 1.

Preliminary outcomes of the survey

*NB: Given the limited time for this survey, verification and analysis of answers have not been fully completed. Results presented should therefore be considered as **preliminary**.*

Moreover, although the paper provides some general observations related to all data received, the primary focus remains the generation part of the questionnaire.

Methodology:

A questionnaire (see Annex 1) based on EURELECTRIC detailed list of transparency information was sent to members of EURELECTRIC and SETSO working groups to include both TSO and generation related data. The survey has covered all countries involved in the Athens Process². Completed questionnaires were received from most of them (in some cases not all issues were completed).

Received questionnaires:

- SEE region: Bulgaria, Croatia, Montenegro, Romania, Serbia, Turkey
- EU countries: Austria, Greece, Hungary, Slovenia

However, in the further analysis we focus only on SEE countries.

The EURELECTRIC proposal groups data under the following headings:

- 1) Load
- 2) Transmission and access to interconnection
- 3) Generation
- 4) Balancing and reserve power
- 5) Wholesale market

When assessing the level of compliance with the EURELECTRIC proposal, the following options were possible:

- 1) compliance
- 2) partial compliance
- 3) data is not published
- 4) data is planned for publishing in a longer term (2007-2008), if...
- 5) data is planned for publishing in a short term (the end of 2006)

General observations:

According to the EURELECTRIC proposed list of information, only a minimum set of data is so far published in countries from the SEE region (see Annex 2), as this is very much linked to the status of market reforms, notably unbundling, availability of market rules and market opening.

In case the data is not published, the survey tried to specify, whether there are any short or long term publishing plans. It is a positive sign that those plans exist, but their successful implementation is conditioned by certain requirements, as for example:

- Legislative requirements: data publishing requirements and publication framework to be incorporated in the Transmission Grid Code, Electricity Market Rules etc.
- Establishment of the Electricity System Operator
- Agreement between TSOs
- Technical requirements (websites development)
- Financial requirements (IT extensions)
- Data publication is linked to markets opening, implementation of capacity auctioning etc.

Besides the questions related to the status of the implementation of market transparency requirements, the questionnaire was also designed to gain information about “data ownership” versus “data publisher”. The following table provides an indicative summary overview based on received answers.

² Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Former Yugoslav Republic of Macedonia, Montenegro, Romania, Serbia, Turkey & Austria, Greece, Hungary, Italy.

	Status	Who owns data?	Who is publishing?	Where?
1. Load		TSOs	TSOs	TSOs web page
2. Transmission and Access to interconnection	Requirements to be imposed by the congestion management guidelines under the regulation 1228/2003 once it is in force. At present, published data usually do not refer to all borders.	TSOs	TSOs	TSOs web page
3. Generation	Voluntary actions, but very much linked to the status of market liberalisation	Generators (TSOs)	Statistical Office, some generators	Generators/Ministry
4. Balancing	Depending on the existence of balancing markets (not yet established in many countries), voluntary action.	TSOs if applicable	TSOs	TSOs web page
5. Wholesale market	Depending on the status of wholesale markets development (in most countries not yet established), voluntary action.	Market Operators (MO) /power exchange or no one	MO	MO web page

Recalling EU experiences, in markets with a focus on bilateral trading, data collection and publication are usually done by the TSO whilst in exchange based markets, data is generally collected and published by the spot market operator. In addition, independent data providers publish information on bilateral and exchange based markets.

Specific comments related to generation data:

From generation transparency requirements, “the installed generation capacity by fuel type” is the most disclosed data and is usually published on the generator’s website. In majority of SEE countries, the rest of data requirements are not published, although in one country they are partly disclosed, and there are also some short-term plans for publishing further generation information in some countries.

However, it is important to emphasise that the role of generators in the context of market transparency is to deliver data to the entities which are responsible for data aggregation and publication. The latter have to ensure that commercially confidential data is not disclosed to the market. Therefore, the willingness of generators to disclose data should go together with clarification of who will be authorized to aggregate and publish data.

Conclusions

- It is crucial, that work on market transparency is seen in the context of the overall SEE regional markets development and synergies with other initiatives within the Athens process are created (e.g. the USAID market monitoring proposal, a foreseen action plan based on outcomes of the SEETEC study on obstacles to trade, etc.).
- It is also important that this initiative operates alongside and in co-ordination with ongoing EU regional initiatives (e.g. the discussion on a broad agenda for European wholesale market transparency, EU regional Mini-Fora etc.).
- A list of market transparency information, as tabled by EURELECTRIC, is considered *by generators* to constitute a basis for market agents to trade efficiently.
- EURELECTRIC favours a regional framework, like the Athens Process, as the best context in which to further discuss transparency requirements and its implementation. To succeed a strong commitment is required from all stakeholders involved in the SEE process. This includes close

co-operation between various market participants (electricity companies, TSOs, power exchanges, customers etc), plus the Commission, regulators, governments, together with donors active in the region.

- In a declaration published on the occasion of its Annual Convention on 12 June 2006, EURELECTRIC refers to a number of specific actions that, if undertaken promptly, offer a unique opportunity to make rapid progress on the road to a pan-European electricity market. These include:
 - Creating a level playing field on market transparency through voluntary disclosure
 - Integrating intraday and balancing markets
 - Removing regulated tariffs and price controls
 - Implementing a generic model for supplier-switching
- The achievement of a pan-European market is a long process, not an event. In addition to the implementation of legislation, real progress requires cooperation between all actors, with the development of regional markets as an important, intermediary step.
- To take forward transparency requirements necessitates the definition of a realistic timeframe for SEE countries, based on understanding of obstacles which will first need to be overcome in order to proceed with data publication. In parallel, EURELECTRIC advocates sufficient harmonisation of transparency standards and a common approach for the publication of relevant market data.

NB: The preliminary results presented in this paper need to be further analysed and discussed.

Annex 1: Market Transparency Requirements based on EURELECTRIC Proposal - State of Implementation: QUESTIONNAIRE

1. System Load

EURELECTRIC proposal			State of Implementation			
<i>Information</i>	<i>Publication timeframe</i>	<i>Aggregation level</i>	<i>Who owns data?</i>	<i>Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)</i>	<i>Who is publishing it and where?</i>	<i>Other comments</i>
Actual system load in MW/h	Ex post, at least H+1 for H, or shorter depending on the mechanism of the balancing market; published information to remain available for at least 7 years	By balancing area				
Day-ahead aggregated forecast of load	Ex ante, day ahead (D-1 for D)	On national level or by price area if price areas are not identical with Member States				
Week-ahead aggregated forecast of load (peak load in MW)	Ex ante, week ahead (W-1 for W to W+52)	On national level or by price area if price areas are not identical with Member States				
Year-ahead aggregated forecast of load (peak load in MW)	Ex ante, year ahead; for at least the next 5-15 years	On national level or by price area if price areas are not identical with Member States				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)? iii) When do you think this could be possible (within which time horizon)?

2. Transmission and Access to Interconnection

EURELECTRIC proposal			State of Implementation			
Information	Publication timeframe	Aggregation level	Who owns data?	Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)	Who is publishing it and where?	Other comments
Long-term evolution forecast of the transmission infrastructure and its impact on future available commercial capacity on borders between price areas	Ex ante, year ahead (updated when relevant during the year)	Per border between price areas				
Planned maintenance of a borderline and impact on the day-, week- and month-ahead available commercial capacity on this border and other relevant borders	Ex ante, year ahead (updated when relevant during the year)	Per border between price areas				
Year-ahead forecast of available commercial capacity on borders between price areas	Ex ante, year ahead (Y-1 for each M of year Y with a rolling update each month for the next 365 days (year))	Per border between price areas				
Month-ahead forecast of available commercial capacity (peak/off-peak) on borders between price areas	Ex ante, month ahead (M-1 for each W of month M)	Per border between price areas				
Week-ahead forecast of available commercial capacity (peak/off-peak) on borders between price areas	Ex ante, week ahead (W-1 for each D of week W)	Per border between price areas				
Day-ahead forecast of available commercial capacity (peak/off-peak) on borders between price areas	Ex ante, day ahead (D-1 for D) for each market time unit, at the latest at the moment of the start of the daily capacity allocation	Per border between price areas				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework, etc.)? iii) When do you think this could be possible (within which time horizon)?

EURELECTRIC proposal			State of Implementation			
<i>Information</i>	<i>Publication timeframe</i>	<i>Aggregation level</i>	<i>Who owns data?</i>	<i>Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)</i>	<i>Who is publishing it and where?</i>	<i>Other comments</i>
Unplanned line outages and impact on the day-, week- and month-ahead available commercial capacity on this border and other relevant borders	Ex post, at least H+1 for H, or shorter depending on the mechanism of the balancing market	Per border between price areas				
Total nominated capacity per hour, i.e. the total nominated capacity including long-term (i.e. yearly, quarterly, monthly, weekly), day-ahead and intra-day nominations	Ex post, at least H+1 for H	Per border between price areas				
Prices and volumes of explicit transmission capacity auctions	Ex post, close to real time, continuously updated	Per border between price areas				
Realised physical flows on borders per hour	Ex post, as soon as possible after real-time	Per border between price areas				
General scheme for calculation of thermal capacity	Ex ante, year ahead; for at least the next 3 years	Per TSO area				
General scheme for calculation of the total transfer capacity and of the available transfer capacity, including the requirements for the reservation of capacity for emergency reasons	Ex ante, year ahead; for at least the next 3 years	Per TSO area				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)? iii) When do you think this could be possible (within which time horizon)?

EURELECTRIC proposal			State of Implementation			
<i>Information</i>	<i>Publication timeframe</i>	<i>Aggregation level</i>	<i>Who owns data?</i>	<i>Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)</i>	<i>Who is publishing it and where?</i>	<i>Other comments</i>
Details of volumes and capacity reserved for legacy contracts between price areas or balancing markets, including the daily values of the total capacity taken by them as well as its provisional evolution in the coming years	Ex ante, week- and year -ahead; expected evolution until the end of the contract	Per contract				
Total nominated capacity of the legacy contracts and long-term (i.e. yearly, quarterly, monthly, weekly) contracts per border	Ex ante, as soon as possible on D-1 after achievement of these nominations; at the latest before the daily allocation procedure starts	Per border between price areas				
Total nominated capacity of the legacy contracts and long-term (i.e. yearly, quarterly, monthly, weekly) contracts and the daily contracts per border	Ex ante, as soon as possible on D-1 after achievement of these nominations and validations between TSOs	Per border between price areas				
Remaining available commercial capacity for day-ahead allocations	Ex ante, after the moment that the D-1 long term and legacy nominations are done, and before the day ahead allocation takes place	Per border between price areas				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)? iii) When do you think this could be possible (within which time horizon)?

EURELECTRIC proposal			State of Implementation			
<i>Information</i>	<i>Publication timeframe</i>	<i>Aggregation level</i>	<i>Who owns data?</i>	<i>Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)</i>	<i>Who is publishing it and where?</i>	<i>Other comments</i>
Remaining available commercial capacity for intra-day allocations	Ex ante, after the moment that the D-1 nominations are available, and updated as soon as possible each time TSOs have another assessment and the capacity has been changed due to intra-day allocations, with at least available data H-1 for hour H	Per border between price areas				
Intra-day cross-border available capacity	Ex ante, hour H for remaining hours of the day D	Per border between price areas				
Volumes used in the intra-day allocation	Ex post, H+1 for H	Per border between price areas				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. *In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)?*

iii) When do you think this could be possible (within which time horizon)?

3. Generation

EURELECTRIC proposal			State of Implementation			
Information	Publication timeframe	Aggregation level	Who owns data?	Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)	Who is publishing it and where?	Other comments
Installed generation capacity by fuel type	Ex ante, Y-1 for each day D, updated on a regular (rolling, at least quarterly) basis when relevant	On national level or by price area if price areas are not identical with Member States				
Available Generation Capacity → <i>stepwise approach, Roadmap</i>						
Phase 1: „Continued liberalisation of national markets“						
Day-, week-, month- and year-ahead information of total available generation capacity expressed in MW	Ex ante, Y-1 for each day D, updated on a daily (rolling) basis	On national level or by price area if price areas are not identical with Member States				
Phase 2: „Development within regions“						
Day-, week-, month- and year-ahead information on available generation capacity expressed in MW by fuel type	Ex ante, Y-1 for each day D, updated on a daily (rolling) basis	On a regional level or by price area				
Aggregated projected, but not committed new-built of generation capacity as soon as a connection agreement with a TSO is in place	Ex ante, year ahead; for at least the next 3 years	On price area				
Aggregated projected maintenance	Ex ante, year ahead (updated when relevant during the year)	On national level or by price area if price areas are not identical with Member States				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) *Why is the data not published?* ii) *What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)?* iii) *When do you think this could be possible (within which time horizon)?*

EURELECTRIC proposal			State of Implementation			
Information	Publication timeframe	Aggregation level	Who owns data?	Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)	Who is publishing it and where?	Other comments
Actual hourly aggregated generation (in MWh) by fuel type, including actual hourly injections (in MWh) of wind power	Ex post, at the latest D+1 for published information to remain available for at least 7 years	On national level or by price area if price areas are not identical with Member States				
Water levels in hydro reservoirs	Ex post, W+1 for week W	On national level or by price area if price areas are not identical with Member States				
Unplanned loss of generation capacity → stepwise approach						
<i>Phase 1: „Continued liberalisation of national markets“</i>						
Unplanned loss of generation capacity (expected duration + capacity loss)	Ex post, within reasonable time (at the latest D+1 for D) in order to give the generator the possibility to hedge the risks of the unplanned outage	By fuel type on price area level				
<i>Phase 1: „Development within regions“</i>						
Unplanned loss of generation capacity (expected duration + capacity loss)	As close to real-time as possible	By fuel type on price area level				
Aggregated projected mothballing of generation capacity	Ex ante, year ahead	On national level or by price area if price areas are not identical with Member States				
Aggregated projected dismantling of generation capacity	Ex ante, year ahead; for at least the next 3 years	On national level or by price area if price areas are not identical with Member States				

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In answering this question, you have in principle the three following options:

1) **Yes, data is published**

2) **Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case**

3) **No, data is not published.** In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)? iii) When do you think this could be possible (within which time horizon)?

4. Balancing

EURELECTRIC proposal			State of Implementation			
<i>Information</i>	<i>Publication timeframe</i>	<i>Aggregation level</i>	<i>Who owns data?</i>	<i>Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)</i>	<i>Who is publishing it and where?</i>	<i>Other comments</i>
Price and volumes for balancing power	Ex post, at least H+1 for H, or shorter depending on the mechanism of the balancing market	By balancing area				
Aggregated capacity margin supply-demand	Ex ante, week ahead (W-1 for W to W+52)	By balancing area				
System balancing status	Ex post, at least H+1 for H, or shorter depending on the mechanism of the balancing market	By balancing area				
Actual use of secondary and tertiary reserve	Ex post, at least H+1 for H, or shorter depending on the mechanism of the balancing market	By balancing area				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)? iii) When do you think this could be possible (within which time horizon)?

5. Wholesale Market

EURELECTRIC proposal			State of Implementation			
<i>Information</i>	<i>Publication timeframe</i>	<i>Aggregation level</i>	<i>Who owns data?</i>	<i>Is information published? (1. Yes 2. Yes, but.. 3. No) (For clarification see FN**)</i>	<i>Who is publishing it and where?</i>	<i>Other comments</i>
Prices and volumes in the day-ahead market on power exchanges or by OTC standard contracts by brokers	Ex post, as soon as the auction is settled	By price area				
Prices and volumes in the intra-day market on power exchanges or by OTC standard contracts by brokers	Ex post, close to real time	By price area				
Prices and volumes in the forward and derivatives market on power exchanges and the OTC standard contracts through brokers	Ex post, close to real time, continuously updated	By price area				

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In answering this question, you have in principle the three following options:

1) Yes, data is published

2) Yes, data is published but in a different format, e.g. publication timeframe is different or slightly different data is published instead; please, specify in detail in any case

3) No, data is not published. In this case, please specify: i) Why is the data not published? ii) What is needed to publish this data (e.g. change of national law, setting up a publication framework etc.)? iii) When do you think this could be possible (within which time horizon)?

Annex 2: Implementation of Market Transparency Requirements in Countries Involved in the Athens Process, based on EURELECTRIC proposal - PRELIMINARY RESULTS

Please note that results of the survey as presented below are based on questionnaires received from members and other contributors and due to the limited time were not fully verified and analysed.

Moreover, please keep in mind that the transparency issue is closely linked to the existence of wholesale markets and should be seen in the context of the overall SEE markets development. At the present, SEE countries are in the process of developing their market models.

1. complies
2. complies partly
3. not published
4. planned for publishing in a longer term (2007-2008), if...
5. planned for publishing in a short term (end of 2006)

Information	South-East Europe										EU				
	AL	BA	BG	CS	HR	MO	MK	RO	TR		AT	GR	HU	IT	SI
1. SYSTEM LOAD															
Actual system load in MW/h			5	4	5	1		1	2			1	1		1
Day-ahead aggregated forecast of load			4	4	5	2		1	1			1	3		3
Week-ahead aggregated forecast of load (peak load in MW)			3	4	3	5			3			3	3		3
Year-ahead aggregated forecast of load (peak load in MW)			1	4	5	5			1			1	1		3
2. TRANSMISSION AND ACCESS TO INTERCONNECTION															
Long-term evolution forecast of the transmission infrastructure and its impact on future available commercial capacity on borders between price areas			5	4	5	4			5			1	1		2
Planned maintenance of a borderline and impact on the day-, week- and month-ahead available commercial capacity on this border and other relevant borders			5	4	3	2			3			2	3		2
Year-ahead forecast of available commercial capacity on borders between price areas			4	4	5	4			5			1	1		2
Month-ahead forecast of available commercial capacity (peak/off-peak) on			3	2	5	2			5			3	1		2

<i>Information</i>	<i>South-East Europe</i>									<i>EU</i>				
	<i>AL</i>	<i>BA</i>	<i>BG</i>	<i>CS</i>	<i>HR</i>	<i>MO</i>	<i>MK</i>	<i>RO</i>	<i>TR</i>	<i>AT</i>	<i>GR</i>	<i>HU</i>	<i>IT</i>	<i>SI</i>
borders between price areas														
Week-ahead forecast of available commercial capacity (peak/off-peak) on borders between price areas			3	3	5	4			5		3	3		2
Day-ahead forecast of available commercial capacity (peak/off-peak) on borders between price areas			3	4	5	4			5		1	2		1
Unplanned line outages and impact on the day-, week- and month-ahead available commercial capacity on this border and other relevant borders			5	3	3	4			3		2	3		3
Total nominated capacity per hour, i.e. the total nominated capacity including long-term (i.e. yearly, quarterly, monthly, weekly), day-ahead and intra-day nominations			3	3	5	4			3		2	3		5
Prices and volumes of explicit transmission capacity auctions			5	3	5	4		1	5		1	1		1
Realised physical flows on borders per hour			3	4	3	4			3		1	1		3
General scheme for calculation of thermal capacity			3	3	3	2					1	3		3
General scheme for calculation of the total transfer capacity and of the available transfer capacity, including the requirements for the reservation of capacity for emergency reasons			3	4	5	5			3		1	1		3
Details of volumes and capacity reserved for legacy contracts between price areas or balancing markets, including the daily values of the total capacity taken by them as well as its provisional evolution in the coming years			5	3	3	n.a.			3		1	2		2
Total nominated capacity of the legacy contracts and long-term (i.e. yearly, quarterly, monthly, weekly) contracts per border			3	3	5	2		5	2		1	2		2
Total nominated capacity of the legacy contracts and long-term (i.e. yearly, quarterly, monthly, weekly) contracts and the daily contracts per border			3	3	5	5		5	2		1	2		2
Remaining available commercial capacity for day-ahead allocations			3	4	5	5		5	3		1	2		2

Information	South-East Europe									EU				
	AL	BA	BG	CS	HR	MO	MK	RO	TR	AT	GR	HU	IT	SI
Remaining available commercial capacity for intra-day allocations			3	4	5	5			3		1	3		4
Intra-day cross-border available capacity			3	3	5	4			3		1	3		4
Volumes used in the intra-day allocation			3	3	3	5			3			3		4
3. GENERATION														
Installed generation capacity by fuel type			1	3	1	1			2	2	1	1		1
Available Generation Capacity:														
<u>1st Phase</u> (liberalisation of national markets): Day-, week-, month- and year-ahead information of total available generation capacity expressed in MW			3	3	3	2		1	3	3	1	1		3
<u>2nd Phase</u> (development within regions): Day-, week-, month- and year-ahead information on available generation capacity expressed in MW by fuel type			3	3	3	2			3	3	n.a.	3		3
Aggregated projected, but not committed new-built of generation capacity as soon as a connection agreement with a TSO is in place			3	3	3	5				3		3		3
Aggregated projected maintenance			3	3	3	4			3	3	3	3		2
Actual hourly aggregated generation (in MWh) by fuel type, including actual hourly injections (in MWh) of wind power			5	3	3	2			3	3	1	3		3
Water levels in hydro reservoirs			3	3	3	2			3	2	3	3		3
Unplanned loss of generation capacity														
<u>1st Phase</u> (liberalisation of national markets): Unplanned loss of generation capacity (expected duration + capacity loss)			5	3	3	4			3	3	3	3		3
<u>2ndPhase</u> (development within regions): Unplanned loss of generation capacity (expected duration + capacity loss) - as close to real time as possible			3	3	3	4			3	3	n.a.	3		3

<i>Information</i>	<i>South-East Europe</i>									<i>EU</i>				
	<i>AL</i>	<i>BA</i>	<i>BG</i>	<i>CS</i>	<i>HR</i>	<i>MO</i>	<i>MK</i>	<i>RO</i>	<i>TR</i>	<i>AT</i>	<i>GR</i>	<i>HU</i>	<i>IT</i>	<i>SI</i>
Aggregated projected mothballing of generation capacity			3	3	3	2			3	3		3		3
Aggregated projected dismantling of generation capacity			3	3	3	2			3	3		1		3
4. BALANCING														
Price and volumes for balancing power			1	3	3	4		2	2	2	3	2		3
Aggregated capacity margin supply-demand			3	3	3	3				3	n.a.	2		3
System balancing status			5	3	3	3			2	2	3	2		2
Actual use of secondary and tertiary reserve			3	3	3	3			3	2	3	2		3
5. WHOLESALE MARKET														
Prices and volumes in the day-ahead market on power exchanges or by OTC standard contracts by brokers			3	3	3	3		1	3		2	3		1
Prices and volumes in the intra-day market on power exchanges or by OTC standard contracts by brokers			3	3	3	3			3		2	3		5
Prices and volumes in the forward and derivatives market on power exchanges and the OTC standard contracts through brokers			3	3	3	3		4	3		n.a.	3		4



Union of the Electricity Industry - EURELECTRIC - A.I.S.B.L.
Boulevard de l'Impératrice, 66 - bte2 - B - 1000 BRUXELLES
Tel. : + 32 2 515 10 00 - Fax. : + 32 2 515 10 10
www.eurelectric.org
TVA : BE 0462 679 112