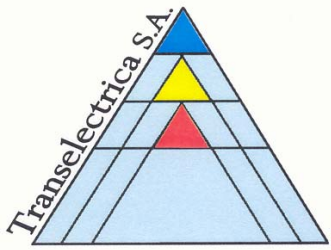


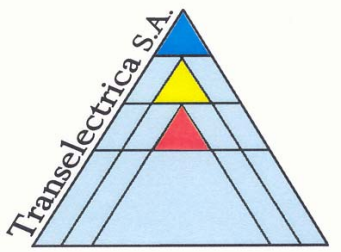
SEE Market Monitoring Pilot Project Design Workshop

Brussels November 16, 2006



Response to Market Monitoring Design Concept Proposal

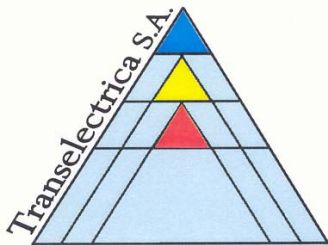
- The main goal - to facilitate non-discriminatory access to transmission network (interconnection) and market transparency needed for establishing a competitive market
- For successful of regional electricity market is necessary to harmonize national electricity market and legislations.



Data for Market Monitoring

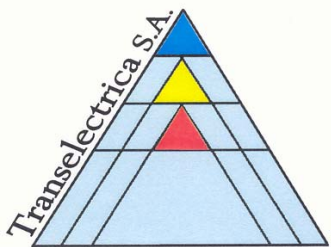
Types of useful data for proposed monitoring process:

- internal/regional regulations and legislation
- regional market model
- non confidential data



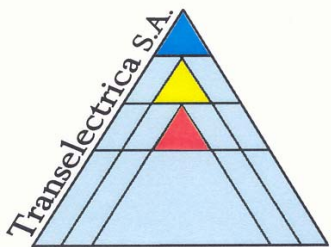
Interface Capacity

Data Description	TSO Comments
<p><i>For each “cross-border” interface</i></p> <p>Forecasts of total interface capacity for monthly service.</p> <p>Monthly reservations (other than committed use) for twelve months beginning December 2006.</p> <p>Forecasts of available interface capacity for monthly service for twelve months beginning December 2006.</p>	<ul style="list-style-type: none"> •Maximum indicative values for NTC and ATC, are calculated annually by UCTE; •TSO calculates for each month values for TTC, NTC, AAC, ATC for each cross-border line or group of lines; •Calculation, harmonization and publication of NTC/ATC is done: <ul style="list-style-type: none"> ✓ for an allocation period bigger than one month with at least with 6 weeks before; ✓ for an allocation period of one month with 2 weeks before. <p>Data are available in Excel format and published on TSO website www.ope.ro</p> <ul style="list-style-type: none"> •Capacity allocation is done according to a procedure approved by ANRE and published on website.



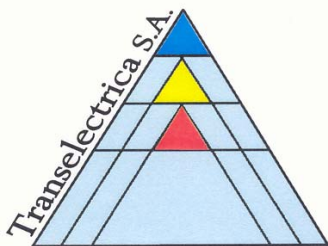
Transmission Requests

Data Description	TSO Comments
<p>List of refused transmission requests for the month and daily including amount of requested capacity, requested start time and requested end time;</p> <p>List of approved transmission requests for the monthly and daily service including amount of requested capacity, requested start time and requested end time;</p>	<ul style="list-style-type: none">•TSO has the data•At the end of the allocation process for one period, the list of allocated capacities for each of the participant, on each border for export and import and the marginal price, are published on the TSO website (in Excel format).•The list of refused requests for capacity allocation is available for Transelectrica.



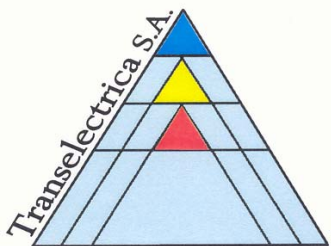
Congestion Management

Data Description	TSO Comments
<p>A general description of congestion management procedures.</p> <p>For the past 60 days, instances of when congestion management procedures were implemented on any interface administered by the TSO;</p>	<ul style="list-style-type: none">• Internal congestions management is done according to BM rules;• Cross-border congestion management is done according to marginal price method:<ul style="list-style-type: none">✓ for one participant cannot be allocated more than 50% of capacity;✓ no congestion no payment.• The procedure is published on the TSO website www.ope.ro.



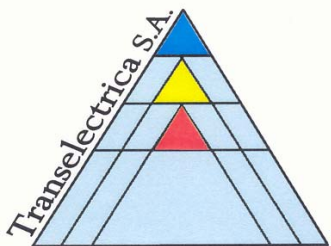
Interface Allocation

Data Description	TSO Comments
<p>A detailed description of the calculation of interface capacity based on the electrical properties of the system.</p> <p>A description of the interface capacity products that are available to third party users of the TSO system.</p> <p>A description of the procedures to purchase and reserve interface capacity.</p>	<ul style="list-style-type: none">• The procedure for calculation of NTC its according with UCTE rules;• The procedure for calculation of NTC its published on TSO website;• The procedure has been harmonized with neighboring TSOs;• The allocation of ATC on interconnection lines is done via explicit auctions held by TSO for each allocation period, each border and exchange type (export and import).• TSO's segment is 50% from the whole capacity;• The procedure is published on TSO websiteu.



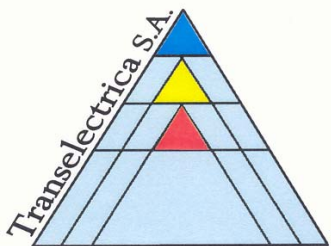
Transmission Expansion

Data Description	TSO Comments
<p>A list of planned system expansion projects.</p> <p>The underlying analysis supporting projects.</p>	<p>Planned transmission network expansion projects are foreseen for a large time scale (up to 10 years, for the first 4 years in detail) and the synthesis of major investment projects is provided on the TSO website.</p> <p>Each investment project is to be submitted to the Authority.</p> <p>For generation expansion projects, the TSO has access to data (from network access requests), but the TSO is not entitled to publish them.</p>



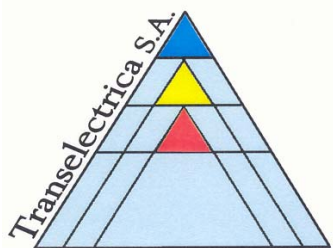
TSO Operations

Data Description	TSO Comments
<p>Hourly physical power flows on external interfaces.</p> <p>Actual scheduled power hourly flows on external interfaces.</p>	<ul style="list-style-type: none">• TSO has the data• Hourly physical power flows on external interfaces are not public data.• Actual scheduled hourly power flows on external interfaces are public, but only aggregated values for each border (Excel format);• Important for traders : each schedule is considered 100% achieved. The imbalance is on TSO responsibility.



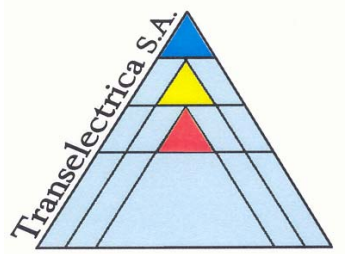
TSO Operations

Data Description	TSO Comments
<p>All generation outages planned at least 7 days in advance, indicate outage date and duration;</p> <p>All generation outages planned less than 7 days in advance, indicate outage date and duration;</p> <p>All transmission outages planned at least 7 days in advance, indicate outage date and duration;</p> <p>All transmission outages planned less than 7 days in advance, indicate outage date and duration;</p>	<p>All transmission / generation outages planned on a yearly / monthly/daily basis are available for TSO but considered confidential.</p> <p>Tie lines outages planned on a yearly/monthly basis are harmonized at regional level and are public data.</p>



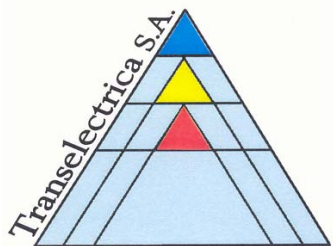
System Demand

Data Description	TSO Comments
<p>Day before demand and generation forecast for each hour of the next day.</p> <p>Actual hourly demand and generation.</p>	<ul style="list-style-type: none">• Currently TSO provides:<ul style="list-style-type: none">✓ day ahead hourly demand forecast for the next 2 days;✓ actual hourly demand and generation.• Data are published on the website and are available in Excel format



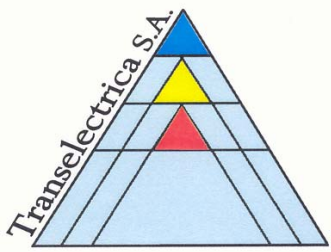
Load Flow Cases

Data Description	TSO Comments
<p>The seasonal base case load flow models used to calculate interface capacity (if load flow model is not used, please indicate method used and provide model).</p>	<p>The seasonal base case load flow model is used to calculate and harmonize interface capacity with the interconnection partners on a monthly basis.</p>



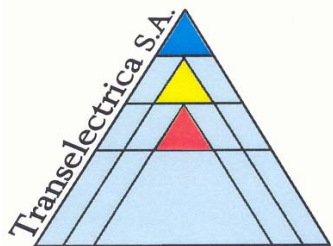
Generation Capacity

Data Description	TSO Comments
<p>For each generating unit in the TSOs control area,</p> <ul style="list-style-type: none">•fuel used in plant during the month•unit maximum capacity,•unit average heat rate,•variable operations costs;•average fuel cost (over the month) <p>Weekly or daily forecast of hourly generator output for each generator in TSO control area.</p>	<p>Currently the TSO:</p> <ul style="list-style-type: none">✓ has the technical data for the generation units (for security of operation purposes) but do not publish these data;✓ does not have commercial data. <p>Therefore the TSO cannot provide all the requested data.</p>



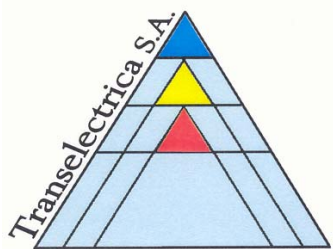
Customer Complaints

Data Description	TSO Comments
<p>Records of complaints by customers or competitors regarding transmission access into the TSO control area;</p>	<p>TSO did not have any complains so far regarding transmission access.</p> <p>Transelectrica has a department dealing with transmission access requests.</p>



Wholesale Activity

Data Description	TSO Comments
<p>Hourly megawatt-hour wholesale sales and purchases by the TSO or load-serving entities in the TSO control area, including the identity of the counterparty, price, firmness, and duration of the sale or purchase;</p> <p>Hourly megawatt-hour wholesale sales and purchases wholesale market participants (including the TSO) that sale within the TSO control area;</p> <p>include the identity of the seller, the counterparty, price, firmness, and duration of the sale or purchase;</p>	<ul style="list-style-type: none">• In Romania each BRP buys/sells energy for its own purposes.• In Romania the wholesale electricity market is a liberalized market (the opening degree is 83.5%) and participants can buy/sell energy independent of the TSO.• TSO buy and sell electricity only for BM operation (for system balancing) and for network losses covering.• Not available.



Balancing Market (if applicable)

Data Description	TSO Comments
<p>Hourly MWh volumes cleared in the spot market;</p> <p>Average hourly price of cleared volumes;</p>	<p>In Romania spot market is not operated by the TSO, is operated by OPCOM, subsidiary of Transelectrica.</p> <p>They publish the clearing price and traded volumes on DAM.</p> <p>BM is operated by TSO who publishes:</p> <ul style="list-style-type: none">✓ hourly cleared volumes on each type of regulation energy (secondary, fast tertiary and slow tertiary), separated for up and down regulation;✓ prices for cleared energy regulation:<ul style="list-style-type: none">• max. price for up regulation• min. price for down regulation• marginal prices for secondary regulation