

# SEE Market Monitoring Pilot Project Design Workshop

November 16, 2006

Brussels



*MACEDONIAN TRANSMISSION SYSTEM OPERATOR*

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# Response to Market Monitoring Design Concept Proposal

To prescribe minimum technical, legal and commercial data, that should be available to market participants by TSOs in order to achieve market transparency needs for establishing competitive market.

Availability of data which need approval from another market actors in compliance with national legislation

# Data for Market Monitoring

- - type of data from legal and commercial areas may be problematic and will be useful to the proposed monitoring process,
- Harmonization of legal and commercial data in the region.

# 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>	<p>TSO has requested data.</p> <p>Available is only forecast of total interface capacity confirmed by MEPSO on monthly level using NTC based mechanism and published on website <a href="http://www.mepso.com.mk">www.mepso.com.mk</a></p> <p>ETSO and UCTE format.</p> <p>Monthly reservations and Forecasts of available interface capacity for the next year are not available,</p>

# Transmission Requests

Data Description	TSO Comments
List of refused transmission requests for the month and daily including amount of requested capacity, requested start time and requested end time;	<ul style="list-style-type: none"><li>-TSO has requested data</li><li>-Not available</li><li>-Not collected</li></ul>
List of approved transmission requests for the monthly and daily service including amount of requested capacity, requested start time and requested end time;	<ul style="list-style-type: none"><li>TSO has requested data</li><li>-Available</li><li>-published on website</li><li>-According (ESS) ETSO scheduling system</li></ul>

# 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>	<p>TSO has requested data.</p> <p>The procedure is available but not published.</p> <p>If congestion occur, transactions are curtailed using simple pro-rata principle and no additional charges.</p> <p><b>North border</b> is congested in <b>direction SR- MK.</b></p> <p><b>.South border</b> is congested in <b>direction MK-GR.</b></p>

# 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>	<p>Calculation of NTC,ATC</p> <p>Monthly, available on website <a href="http://www.mepso.com.mk">www.mepso.com.mk</a></p> <p>Procedure has been harmonized with neighboring TSOs and is developed in accordance with UCTE rules.</p> <p>There is internal procedure capacity allocation applied by MEPSO , based on simple pro-rata mechanism.</p> <p>Yearly tendering procedure for electricity supply with rules for capacity allocation.</p>

# Transmission Expansion

Data Description	TSO Comments
<p>A list of planned system expansion projects.</p> <p>The underlying analysis supporting projects.</p>	<p>- TSO is responsible for transmission system development and has requested data</p> <p>On going projects:</p> <ol style="list-style-type: none"> <li><b>400 kV OHL Stip –Cherevna Mogila (Bulgaria) and new SS Stip400/110 kV</b> <i>(Trans –Balkan Power Line Project Study ,ENRON-London, Harza-Chicago</i></li> <li><b>400 kV OHL Bitola- Florina (Gr)</b> <i>(feasibility and Evaluation Study of Upgrading at 400 kV of the Existing150 kV Interconnected line Aminteo-Bitola, PPC-Athens, NEK-Sofia, ESM-Skopje ,EKC-Belgrade)</i></li> <li><b>Expansion of SS Skopje5 with second 400/110 kV transformer</b> <i>(Faculty of Electrical Engineering-Skopje)</i></li> </ol>



# TSO Operations

Data Description	TSO Comments
Hourly physical power flows on external interfaces.	<ul style="list-style-type: none"><li>-TSO has requested data, Available on the SCADA system and on the interconnection metering system</li><li>-Daily report</li><li>-According UCTE and ETSO KISS format, 15min resolution.</li></ul>
Actual scheduled power hourly flows on external interfaces.	<ul style="list-style-type: none"><li>- TSO has requested data,</li><li>-Available</li><li>-in daily schedule like balance on frontier</li></ul>

# 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>-TSO has requested data of outages; generation outages from ELEM (generation company). Not published</p> <p>transmission outages from (TO) Transmission operator . Planed transmission outages harmonized on regional level and should be published.</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"><li>-TSO has requested data</li><li>-available</li><li>-In daily schedule</li><li>-Kiss format, according UCTE and ETSO recommendations.</li></ul>

# 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>	<ul style="list-style-type: none"><li>-TSO use the seasonal base case load flow model to calculate interface capacity.</li><li>- available</li></ul>

# Generation Capacity

Data Description	TSO Comments
<p>For each generating unit in the TSOs control area,</p> <p>fuel used in plant during the month</p> <p>unit maximum capacity,</p> <p>unit average heat rate,</p> <p>variable operations costs;</p> <p>average fuel cost (over the month)</p> <p>Weekly or daily forecast of hourly generator output for each generator in TSO control area.</p>	<ul style="list-style-type: none"> <li>- MEPSO and ELEM (generation company) has requested data.</li> <li>-Available ,</li> <li>- technical data are published but commercial data not</li> <li>-yearly</li> </ul> <p>TSO has requested data.</p> <ul style="list-style-type: none"> <li>- available.</li> <li>- Only daily forecast</li> </ul>

# Customer Complaints

Data Description	TSO Comments
<p>Records of complaints by customers or competitors regarding transmission access into the TSO control area;</p>	<p>Regulator is in charge of keeping recorded complaints.</p> <p>Available</p> <p>No recorded complaints in this moment.</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>	<p>There are not wholesale activity, because the MEPSO is regulated wholesale supplier of tariff customers.</p>

# 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>It is not applicable, no spot market.</p>