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BLACK SEA REGIONAL TRANSMISSION SYSTEM PLANNING PROJECT

WORKING GROUP MEETING

June 15-16, 2010

Kiev, Ukraine

AGENDA

Objectives

- Exchange information on the development of renewable energy resources on a national basis for the 2015 and 2020 planning horizon as an input to discussions on the study focus of the project's next phase
- Review, modify and agree to the terms of reference for the working group study that will focus on:
 - Updating 2015 and 2020 regional transmission models by incorporating more accurately renewable energy development forecasts, particularly for wind energy;
 - Developing three electricity balance scenarios (low growth, business as usual, high growth)
 - Estimating wholesale electricity market prices to develop economically based trading scenarios for 2015 and 2020
 - Analyzing transmission system capacity to support economically based trade within the region and between the region and neighboring regions
- Coordinate with USAID's Strategic Energy Planning Project
- Plan for training and partnership exchange activities scheduled to be conducted later this year

Tuesday, June 15

9:00 am

OPENING AND WELCOMING REMARKS

- Introductions
 - Review of the Yerevan Steering Committee Report
 - Review of Agenda, Goals, and Objectives of Meeting
- Vyacheslav Salimona, Deputy Head of International Development & European Integration Department, Ukrenergo*
Jamshid Heidarian, Senior Energy Advisor, USAID
Dan Preotescu, Director, Network Planning Division, Transelectrica; and
William Polen, Program Manager, USEA

- 9:30 am **Report from the Black Sea Regulatory Program**
Sergey Dunaylo, Commissioner, Ukraine National Energy Regulatory Commission (NERC)
- 9:45 am **TSO Reports on Renewable Energy Development in the Black Sea Region**
- Load growth estimates for 2015 and 2020
 - Official renewable energy targets (MW) for 2015 and 2020
 - Installed wind and renewable energy generation (MW)
 - Location(s) of current renewable energy projects
 - Overall estimated windpower and other renewable energy generation by 2015 and 2020 (MW)
 - Wind and renewable energy resource locations
 - Number of wind farm projects and MWs of wind power interconnection studies currently in process
 - Number of interconnection applications by MW received by the TSO
 - Incentives for renewable energy resources (tariffs; guaranteed power purchase; fiscal incentives; others)
 - Brief description of any progress toward development of wind and renewable energy grid codes
 - **Scientific Energy Research Institute of Armenia**
 - **ESO EAD National Electricity Company of Bulgaria**
 - **Georgia State Electrosystem**
 - **Moldelectrica**
- 10:45 am **Morning Break**
- 11:00 am **Renewable Energy Development in the Black Sea Region (Cont'd)**
- **Transelectrica**
 - **System Operator – Unified Power System of Russia**
 - **Ukrenergo**
 - **Turkish Electricity Transmission Company**
- 12:00 noon **Presentation on Windpower**
Dan Preotescu, Director, Network Planning Division, Transelectrica; and Project Coordinator, Black Sea Regional Transmission Planning Project
- 12:30 pm **Lunch**
- 1:45 pm **Introduction to the Southwest Power Pool**
Jay Caspary, Director, Transmission Development, Southwest Power Pool
- 2:30 pm **The USAID Energy Strategic Planning Project: Goals, Objectives, Results & Synergies with the Next Phase of the BSTP**
Jamshid Heidarian, United States Agency for International Development

- 2:45 pm **The Ukraine Marcal Model**
Roman Podolets, Senior Research Officer, Ukraine national Academy of Science, Institute of Economic Forecasting
- 3:15 pm Afternoon Break
- 3:30 pm **Terms of Reference for the BSTP Study to be Conducted During the Next Phase of the Project**
Predrag Miksa, Electricity Coordination Center of Belgrade
 - Updating 2015 and 2020 regional transmission models by incorporating more accurately renewable energy development forecasts, particularly for wind energy;
 - Developing three electricity balance scenarios (low growth, business as usual, high growth)
 - Estimating wholesale electricity market prices for 2015 and 2020
 - Proposing economically based trading scenarios for 2015 and 2020
 - Analyzing transmission system capacity to support economically based trade within the region and between the region and neighboring regions
- 4:00 pm **Review and Comment on the Terms of Reference**
Moderator: *Dan Preotescu, Director, Network Planning Division, Transelectrica; and Project Coordinator, Black Sea Regional Transmission Planning Project*
- All TSOs will have an opportunity to comment on the proposed Terms of Reference
- 5:00 pm **Day One Adjourn**
- 7:00 pm **Dinner Hosted by United States Energy Association**
Location to be Announced

Wednesday June 16

- 9:00 am **Introduction to the Optimum Power Flow Module of PSS/E**
Predrag Miksa, Electricity Coordination Center of Belgrade
- 9:45 am **Implementing the Proposed Terms of Reference for the Next Phase of BSTP**
William Polen, United States Energy Association
Patrick Miller, Senior Energy Advisor to United States Energy Association
 - Implementation Plans
 - TSO Data Requirements, Inputs
 - Sub-regional Analytical Centers
 - Role of Regional Model Integrator

- Timelines & Deliverables
- Use and Application of Optimum Power Module of PSS/E
- Human Capacity Building Requirements

10:30 am **Morning Break**

11:00 am **Upcoming Capacity Building Programs**

William Polen, United States Energy Association

- Workshop on Integrating Wind Power and Other Intermittent Renewable Energy Resources with SECI Transmission System Planning Project

11:15 am **Transmission System Operator Partnership Exchange Visit to the United States on Wind Power and Planning for Resource Adequacy in a Market Based Environment**

William Polen, United States Energy Association

11:45 am **Discussion of Implementation Plan and Capacity Building Program**

All TSOs will have the opportunity to comment on the Implementation Plan and Proposed Upcoming Capacity Building Programs

12:15 pm **Lunch**

1:30 pm **Survey on Calculating Transmission Losses**

Jamshid Heidarian, United States Agency for International Development
William Polen, United States Energy Association

1:45 pm **Review Meeting Report and Next Steps**

*Dan Preotescu, Director, Network Planning Division, Transelectrica; and
Project Coordinator, Black Sea Regional Transmission Planning Project*

2:15 pm **Adjourn Day Two**

3:30 pm **Tour of Ukrenergo Dispatch Center**