

Minutes of Meeting EDAC - Project Advisory Group

Date held: July 15, 2010	Time held: 9:00 am to 12:00 am	Location: Clarkson room 216
Invited/Attended	Company Name	Attendance Status (A)ttended; (R)egrets; (S)ubstitute
Cary, Rob	Sithe Global Canadian Power Services, Ltd.	Telephone
Hossie, Scott	Transalta Corporation	Telephone
Jayapalan, Jennifer	Portlands Energy Centre	R
Jehn, Laura	TransAlta Corporation	A
Kerr, Paul	Shell Energy	R
MacKenzie, John	Ontario Power Authority	A
Maddix, Melanie	Sithe Global Canadian Power Services, Ltd.	A
Peterson, David	OPGI	R
Rezavand, Farzad	TransCanada	Telephone
Shah, Sushil	OPGI	A
Sikstrom, Matt	OPGI	A
Spitters, Richard	Wattsworth Analysis Inc.	A
Windsor, John	Emera Energy	A
Berry, Scott	IESO	A
Freer, Ann	IESO	A
Hopper, Libby	IESO	A
Kamstra, Pat	IESO	A
Lodyga, Martin	IESO	A
Matos, Griselda	IESO	A
Romeo, Rick	IESO	A
Stanway, Linda	IESO	A
Wright-Hilbig, Rhonda	IESO	A

The meeting minutes when finalized will be posted on the IESO web site at:

http://ieso.ca/imoweb/consult/consult_se73-pag.asp

Summary of Meeting Discussion

Item 1 Introduction and Review of Agenda

Rhonda Wright-Hilbig welcomed Melanie Maddix from Sithe Global Canadian Power Services to the EDAC Project Advisory Group and invited attendees to introduce themselves once again.

Item 2 Review of Minutes and Action Items from June 11, 2010 meeting

Rhonda reviewed the minutes from the meeting on June 11, 2010. There were no comments given by the PAG members and thus the minutes were declared final and will be posted as such.

Rhonda went through action **item # 4** from June 11, 2010 meeting, and indicated that the response would be provided in the minutes of this meeting.

Action item #4 – June 11, 2010

The DAOS Calculation Engine executes three passes to determine unit commitment and constrained dispatch schedules over a 24-hour period for energy and operating reserves:

- Pass 1 – Commitment Pass: Utilizes a multi-period Security Constrained Unit Commitment (SCUC) dispatch engine to *determine the initial set of commitments* for non-quick-start generators and dispatch schedules for all dispatchable resources that are required to satisfy the *average* forecast demands of the next day.
- Pass 2 – Reliability Pass: Utilizes the same SCUC dispatch engine as Pass 1 to *commit additional resources* if resources committed in Pass 1 are insufficient to satisfy the *peak* forecast demands of the next day. In addition, it also enforces the following:
- Pass 3 – Scheduling Pass: Utilizes a multi-period Security Constrained Economic Dispatch (SCED) to determine the *day-ahead energy and reserve schedules for all resources committed* in Pass 2 to meet the *average* forecast demands of the next day. The Scheduling Pass utilizes the same SCUC dispatch engine as in Passes 1 and 2 *where the commitments are fixed. All commitment related costs and constraints are excluded from the Pass 3 optimization.*

Since the commitment related costs and constraints are excluded in Pass 3, they are not reflected in the published “shadow” prices.

Item 3 Review of the posted revised Stakeholder plan SE-73 and associated Terms of Reference for the Project Advisory Group

Rhonda finalized the Stakeholder plan SE-73 and Terms of Reference for PAG. There were no comments on the revised Stakeholder plan SE-73 and thus this document will be posted as is. The Terms of reference document has some clarification changes after comments were received from the June 11 meeting. This document will be re-posted and if no PAG member comments are received in a week, they will be finalized and posted.

Action: IESO to post the finalized PAG Terms of Reference, after receipt of comments from members by July 30, 2010.

Item 4 Walkthrough of EDAC Draft Market Manuals for the Day Ahead Commitment Process

Martin Lodyga presented a high level overview of Market Manual, Parts 9.0 to 9.4 in terms of their content and area of coverage. The DACP draft market manuals follow the proposed structure as reviewed at the Project Advisory Group meeting held on June 11th. These manuals are in the early stages and still require internal and external review which may lead to changes.

The Day Ahead Commitment Process Market Manual consists of 6 documents: DACP Overview, Submitting Registration Data for the DACP, Submitting Operational and Market Data for the DACP, Operations of the DACP, Real-Time integration of the DACP, Settlement of the DACP. The presentation focused on the first five documents. Settlement of the DACP will be discussed at the August PAG meeting and the manual will be provided at a later date.

PAG members have two weeks to submit any comments based on their review of the draft market manual documents by emailing them to EDAC@ieso.ca. The IESO will then compile those comments, and other comments received from internal review and revise the draft market manuals where applicable. In subsequent PAG meetings, the IESO will provide the revised documents and review significant changes.

A PAG member commented that the revised DACP market manuals refer to the current process and was not sure if this should be required in the revised DACP market manuals. The IESO responded that this was not the intention and will be corrected.

All of the DACP draft market manuals discussed have a workflow diagram and procedural steps section. The workflow diagrams document each step of the process in sequence and associate each one to the multiple swim lanes applicable to the number of entities performing

the task. The procedural steps outline each step of the process in sequence and provide additional detail with the task and the tools involved.

Rhonda pointed out that at the meeting on June 11th, the usefulness of workflow diagrams and procedural steps was discussed, and the general consensus was that PAG members liked the procedural steps but were not sure of the value of the workflow diagram. Thus, the DACP market manuals have both aspects for now but PAG members will need to come to consensus at the next meeting. PAG members should state if they have a preference to have one over the other one. This consensus would not have an impact on other manuals maintained by the IESO.

For Market Manual 9.3, Operation of the DACP, a PAG member asked if there is any validation check on the offers provided during the transition over midnight hour. There is no validation but settlements of the PCG does take into account any real time claw back of CMSC as a result of the application of the constraints to complete MGBRT.

Finally, Rhonda asked the PAG members if they have a preference on having the market manuals as a word version where they can track changes or a PDF version and they supply comments via email. There was a preference from members to create their own table of comments from a PDF version.

Action: PAG members have two weeks to submit comments on the draft market manual documents by emailing them to the EDAC mailbox (EDAC@ieso.ca). Comments are due Friday July 30, 2010.

Item 5 IT Update

Rado Jovic provided an update on the activities of SE - 87 EDAC IT Build Phase, particularly on the provision of EDAC market facing sample reports. Public report samples will be issued by the end of July and private report samples will be issued by the end of August. These samples will be posted on the web site and SE-87 members will be notified and have two weeks from posting to provide comments. It was stated the reports will be published on XML only.

Even though most generators will continue to use the MPI, there will be a poll to see which participants will be developing a new API. Participants should inform the IESO as soon as they can to make sure the testing schedule accommodates their needs.

Item 6 Preparation for Market Trials

Rhonda gave a presentation on EDAC Market Trials – market participant planning. This was briefly discussed at the June 11th meeting. Any comments to the presentation can be sent to the [EDAC mailbox](#).

The IESO will provide a Sandbox where participants can connect so that they can carry out their own system testing. However, participants may need to get new staff registered to get access to the Sandbox. This will occur through the regular market entry process. Participants should inform the IESO of any specific times in their project plan when connectivity is important to them. To aid in this, the IESO will post a draft schedule on the web site to help participants with the planning.

PAG members will need to clarify what they want to do during Market Trials. They will need to specify whether Market Trials is primarily about giving their staff time to familiarize themselves with the new toolset, or whether testing scenarios are of prime importance. More than one group member stated that of primary concern was the ability to ensure they understood the eligibility requirements for the new guarantees, prior to going into service. Also important was the need for their staff to have time on the new toolset (MIM), and an ability to run existing strategies through the new dispatch engine (DAOS). While eligibility criteria was brought up as a particular concern of the members, there may be other scenarios that market participants wish to see exercised in Market Trials.

Action: PAG members to provide a list of potential scenarios for Market Trials prior to the next PAG meeting in August for discussion.

The IESO will set up an agenda item for next meeting for this discussion. The IESO will also create a survey to understand PAG members' needs. PAG members also identified the need for reporting issues during testing along with any expected impact on the schedule.

Action: The IESO will create a survey to understand PAG members' needs for Market Trials.

A PAG member asked if there will be criteria to establish Market Trials success. Rhonda responded that, while we have not given the entrance and exit criteria for Market Trials a lot of thought at this point, it is our intention to develop these criteria. There will be a Market Trials working group, and planning for this group will begin at the start of February. The group will likely meet via telephone conferences during Market Trials. The development of a schedule of calls will be discussed during the planning sessions early next year. Also to be discussed is the involvement of the PAG in the actual operation of Market Trials (e.g. monthly update meeting, or only access to documents or conference calls, etc.).

Action: The IESO will post on the web site the draft EDAC Project timeline handed out at the last meeting, showing the scheduled connectivity testing and Market Trials to help participants with their planning.

Item 7 Wrap-Up

Dates for the August and September meetings of the PAG were discussed. The meetings were tentatively scheduled for Thursday August 26th and Thursday September 23rd. Note that the August meeting was rescheduled to provide for a more suitable room for the size of the group at the IESO.

Action Item Summary

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#	Date	Action	Status	Comments
1	June 11, 2010	IESO will review the PAG Terms of Reference, revise the wording where appropriate and re-post the document. When the document is posted, the IESO will request written comments within one week. Comments on the Terms of Reference can be provided at: edac@ieso.ca	Open	IESO has posted the revised ToR on the PAG website. Members have until July 30 to comment prior to finalization.
2	June 11, 2010	IESO to determine how the information relating to market participant testing environments will be communicated to stakeholders.	Open	This item will be addressed at future meetings.
3	June 11, 2010	PAG members were requested to provide feedback on the proposed structure of market manual 9. Comments can be provided by email to edac@ieso.ca and they will be discussed at the next PAG meeting.	Closed	No comments were provided
4	June 11, 2010	IESO will provide information on how the Shadow Price Report is generated and what the prices mean.	Closed	Refer to minutes

#	Date	Action	Status	Comments
5	July 15, 2010	IESO to post final June 11, 2010 minutes on the web site.	Closed	
6	July 15, 2010	PAG members were requested to submit comments on the draft market manual 9 documents by email to edac@ieso.ca	Closed	Due July 30, 2010.
7	July 15, 2010	IESO will post the draft EDAC Project timeline showing the scheduled connectivity testing and Market Trials on the web site.	Closed	Posted July 16, 2010 under meeting materials for June 15, 2010 meeting of PAG.
8	July 15, 2010	IESO will set up an agenda item for next meeting to provide in advance a list of Market Trials scenarios.	Closed	
9	July 15, 2010	The IESO will create a survey to understand PAG members' needs for Market Trials.	Open	
10	July 15, 2010	PAG members to provide a list of potential scenarios for Market Trials prior to the next PAG meeting in August for discussion.	Open	