

Minutes of Meeting

Date held: November 28, 2013	Time held: 9:30 am	Location held: 655 Bay Street, Suite 410, Toronto
Attended/Invited	Company Name	Attendance Status (A)ttended; (R)egrets; (S)ubstitute
Brigitte Rivest	EnWin Utilities	A
Andrew Whittington	Hydro One	A
James Li	Hydro One	A
Mario Cangemi	Horizon Utilities	R
Francis Bradley	Canadian Electricity Association	A
Jojo Maalouf	Hydro Ottawa	A
Peter Man	London Hydro	A
Glen Dempster	Ontario Power Generation	R
Wendy Young	Oakville Hydro	A
Marius Sima	Oakville Hydro	R
Roy Hrab	Ontario Energy Board	A
Neil Finnerty	Brighton Beach Power	R
Lori Goodyear	Public Safety Canada	A
James Cook	Great Lakes Power	R
Terry Lageer	PowerStream Inc.	A
Dan Negreanu	RBC Capital Markets	A
Emmett O'Reilly	Toronto Hydro	A
Daniel Nunes	Enersource	R
Usman Syed	Ministry of Energy	R
Nick Powers	Peterborough Utilities Group	R
Kevin McCauley	Kingston Utilities	R
Larry Lam	Veridan Connections	A
Scott Hilts	Bruce Power	R
Dan Lowry	Burlington Hydro	R
Jodie Thompson	Bruce Power	R
Ben Blakely	IESO	A
David Goch	IESO	A
Jason Hammerschmidt	IESO	A
Andrew Salter	IESO	A
David Dunn	IESO	A
Please report any corrections, additions or deletions via e-mail to David Goch (david.goch@ieso.ca)		

All meeting material is available on the IESO web site at:
http://www.ieso.ca/imoweb/consult/consult_cybersecurity_forum.asp

Item 1 Introductory Remarks

IESO President & CEO Bruce Campbell welcomed attendees and provided an uplifting perspective on IESO Standing Committee importance and looked forward to the benefits that the IESO Cyber Security Forum will provide to Ontario's electricity industry.

Item 2 Canada's Cyber Security Strategy and Action Plan

Public Safety Canada Director Lori Goodyear provided an overview of both Canada's Cyber Security and Critical Infrastructure strategies. Information was provided on the various cyber security components of the Canadian Government and the role of Public Safety Canada in co-ordinating activities amongst the government and the private sector.

Interested parties are urged to contact the Canadian Cyber Incident Reporting Center for an overview of products and services that they offer to critical infrastructure partners. More information is available at <http://www.publicsafety.gc.ca/cnt/ntnl-scr/cbr-scr/tchncl-dvc-gdnc-eng.aspx> or cyberdo@ps-sp.gc.ca.

Item 3 Cyber Security in Canada's Electricity Industry

Canadian Electricity Association Vice-President Francis Bradley provided a chronology of the evolution of security in Canada from the historical military protection of physical critical infrastructure to the more recent extension into protecting cyber assets. An overview of cyber security efforts within the Canadian electricity industry was also provided.

Item 4 Cyber Security Threat Overview

IESO Jason Hammerschmidt spoke about current categories and trends of cyber attacks. Year over year metrics by industry, type of attack and attacker profile were presented. A case study of a recent attack was presented.

Item 5 Committee Governance

IESO Cyber Security Forum Chair Ben Blakely facilitated a discussion around the Forum's governance. The outcome of the discussion was the need to amend the current terms of reference to include provisions around:

- Specific Task Groups

- Partners group
- Handling of information presented at meetings
- Sharing of confidential information

Item 6 Round Table

During the round table attendees put forward their views on security topics that the Forum should address during upcoming meetings. Several focus area's were identified including:

- Information Sharing
 - Cyber intelligence
 - Best practice
- Emerging Technology
 - AMI
 - Cloud
- Incident Response
- Situational Awareness

It was proposed the next meeting focus on information sharing.

The IESO will draft a Forum action plan for discussion at the next meeting.

Item 7 Next Steps / Closing Remarks

Ben Blakely provided closing remarks highlighting the importance of cyber security and the need to collaborate in order to be successful in evolving cyber security in Ontario's Electricity industry.

The tentative dates for the upcoming Cyber Security Forum meetings are:

- March 5, 2014
- July 17, 2014
- November 27, 2014

Action Item Summary				
#	Date	Action	Status	Comments
1	11/28/13	IESO to develop draft cyber security forum plan for discussion at next meeting	Open	
2	11/28/13	Next meeting to focus on information sharing	Open	
3	11/28/13	Amend terms of reference	Open	Refer to Item #5