Ontario Cyber Security Framework

Wendy Young

Director of Information Technology

June 21, 2018

Presented to MEARIE Risk Conference





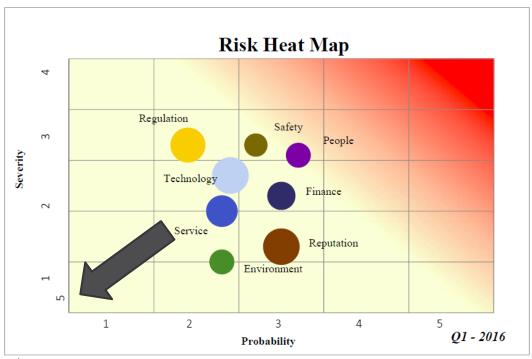
OEC At-a-Glance

Infrastructure Services	Generation	Energy Services	Distribution	
G-TEL PLANVIEW Utility Services Ltd.	GENERATION	OAKVILLE HYDRO ENERGY SERVICES	OAKVILLE HYDRO	
PVS el·con	Sunny Shores LP Green Energy Solar Park	Golden Horseshoe		
UTS GEOMATICS	GEOEXCHANGE			





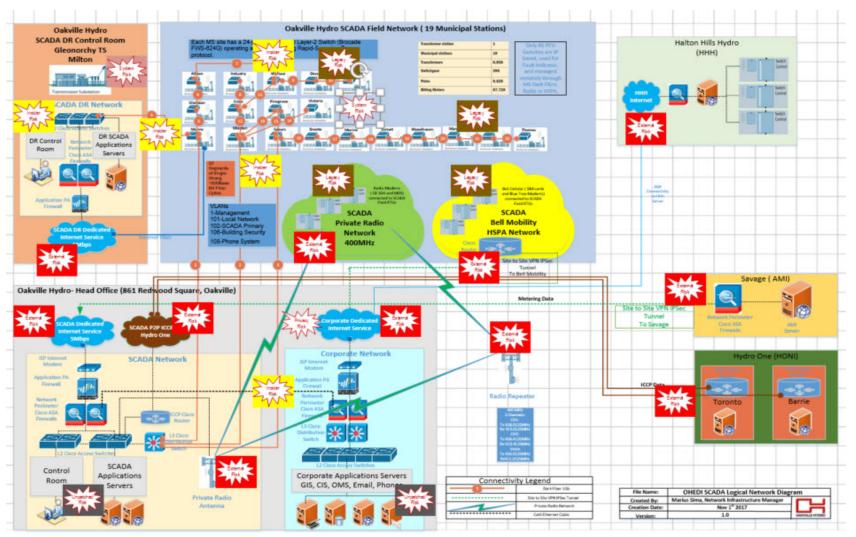
Enterprise Risk Management



^{*}For illustrative purposes only



Oakville Hydro Attack Surface





Our Framework

> Implementing best practices through a defined set of general

controls

> Network implementation

> Layered security

> Segregation of Networks

Consider Framework Control of the Properties Control of the Properties

> Adopted framework was based on the NIST

> Developed a rolling Cyber security plan that adopts changes

		<u> </u>						
	Out Nur	Task Name ▼	% Cor	External Resource	Internal Resource Lead	Internal Resource Support	Start ▼	Finish
1	1	☐ Cyber Security Plan	62%				Tue 11/1/11	Thu 5/14/20
2	1.1	± Leadership and Governance	75%				Tue 11/1/11	Fri 5/3/19
13	1.2	Operations and Technology	85%				Sat 9/1/12	Wed 1/30/19
45	1.4	Information Risk Management	26%				Fri 4/1/16	Wed 8/1/18
33	1.3	+ Awareness	15%				Sat 10/1/16	Fri 6/29/18
51	1.5	Legal And Compliance	0%				Mon 1/2/17	Thu 11/30/17
56	1.6	Business Continuity and Respond Manageme	3%				Wed 2/1/17	Thu 5/14/20



Ontario Framework

	A	D	E	F			
1	Category	r	Notes	lotes	OEB Notes	Score 0-4	Possible Score
2	■1 Identify	86%		cumented in visio		4	4
3	Asset Management	100%	6	all physical and			
4	Business Environment	75%	6	umented on data nents listing all			
5	Governance	79%	6	rvice from source			
6	Risk Assessment	83%	6				
7	Risk Management Strategy	88%	ó				
8	■2 Detect	82%	6				
9	Anomolies and Events	0 100%	Ó				
10	Continuous Monitoring	88%	, and the second				
11	Detection Process	63%	Not all assets are monitored, only critical devices				
12	■3 Protect	94%	6				
13	Awareness and Training	75%	6				
14	Data Security	0 100%	6	d in the service i excel spreadsheet		4	4
15	Information Protection Processes and Procedur	e 100%	6	intained but will be e-Now for full ITSM.			
16	Protective Technology	0 100%	6				
17	■4 Respond	19%	6				
18	Communications	15%	Response plans are followed but are not formalized				
19	Improvements	0%	6				
20	Mitigation	75%	Stratejm Works with the IT team to mitigate issues				
21	Response Planning	25%					
22	■5 Recover	29%		d in the service		4	4
23	Communications		Recover plans are followed but are not formalized	intained but will be e-Now for full ITSM.			
24	Improvements	0%		r a full audit of all			
25	Recovery Planning	25%		ironmont			
26	Overall Percentage	75%	6				
27							



Respond and Recover

Function Unique Identifier	Function	Category Unique Identifier	Category
		ID.AM	Asset Management
	Identify	ID.BE	Business Environment
ID		ID.GV	Governance
		ID.RA	Risk Assessment
		ID.RM	Risk Management Strategy
		PR.AC	Access Control
		PR.AT	Awareness and Training
PR	PR Protect	PR.DS	Data Security
		PR.IP	Information Protection Processes and Procedy
		PR.MA	Maintenance
		PR.PT	Protective Technology
		DE.AE	Anomalies and Events
DE	Detect	DE.CM	Security Continuous Monitoring
		DE.DP	Detection Processes
			Response Planning
		RS.CO	Communications
RS	Respond	RS.AN	Analysis
			Mitigation
			Improvements
			Recovery Planning
RC	Recover	RC.IM	Improvements
		RC.CO	Communications

Incident Response Business Continuity Recovery Plans





- New Ontario Framework takes into account the best practices for an organization to follow to achieve good cyber security
- ✓ The Framework is flexible enough for any organization
- ✓ Responding and recovering from an event should be our focus



Thank