



First Nations – Reliability Performance Overview

February 21, 2018

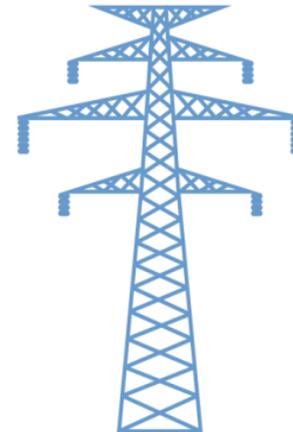
hydroOne



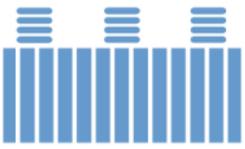
Agenda

- Hydro One Operations Review
- Historical Reliability Performance
- First Nations Communities Supply
- 2017 Transmission Reliability
- Transmission Reliability Improvements
- 2017 Distribution Reliability
- Distribution Grid Modernization
- Planned Work on Assets Serving First Nations Communities

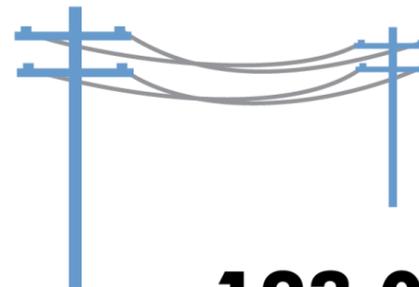
HYDRO ONE OPERATIONS REVIEW



30,000 KM
OF HIGH-VOLTAGE
TRANSMISSION LINES

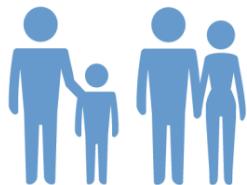
308 
TRANSMISSION STATIONS

A bar chart with 308 vertical bars of varying heights, representing the total number of transmission stations. To the right of the chart is a smaller illustration of a transmission tower.



1.6 MILLION
DISTRIBUTION POLES

123,000 KM
OF LOCAL DISTRIBUTION LINES

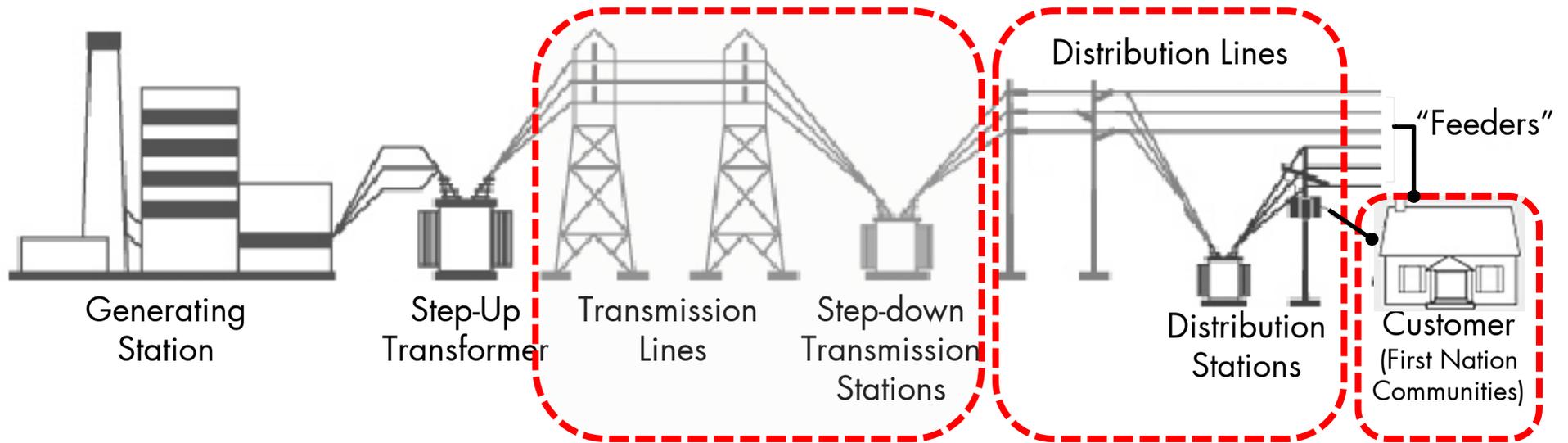


1.3 MILLION
RESIDENTIAL AND BUSINESS
CUSTOMERS ACROSS ONTARIO

1005 
Distribution Stations

A bar chart with 1005 vertical bars of varying heights, representing the total number of distribution stations.

First Nations Communities Supply



First Nations Communities: Supplied from 68 Transmission Lines, 59 Transmission Delivery Points and 109 Distribution Feeders

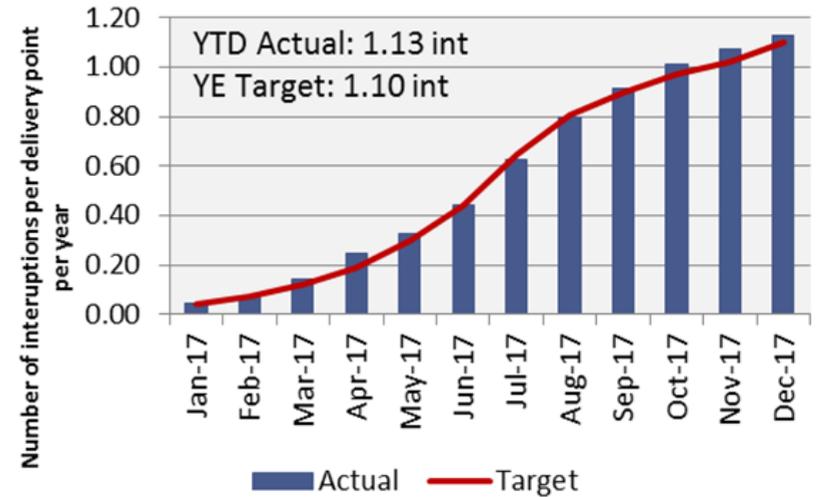
2017 Transmission System Reliability Performance

2017 Year End Overall Transmission Performance: SAIDI was 42.8 min and SAIFI was 1.1 interruptions per customer delivery point. Main causes of these interruptions are 1) Weather 2) Defective Equipment and 3) Unconfirmed

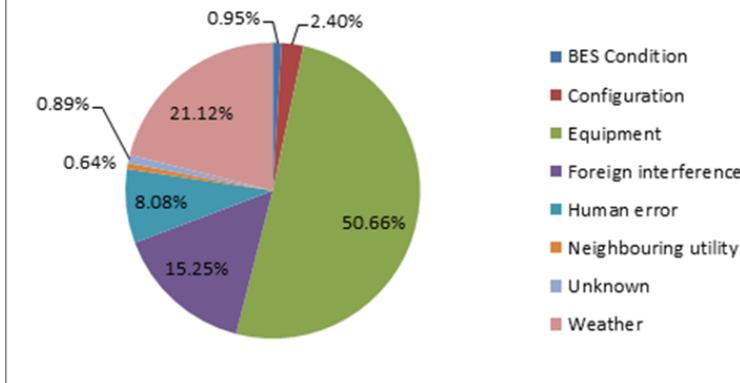
Reliability - Transmission (SAIDI)



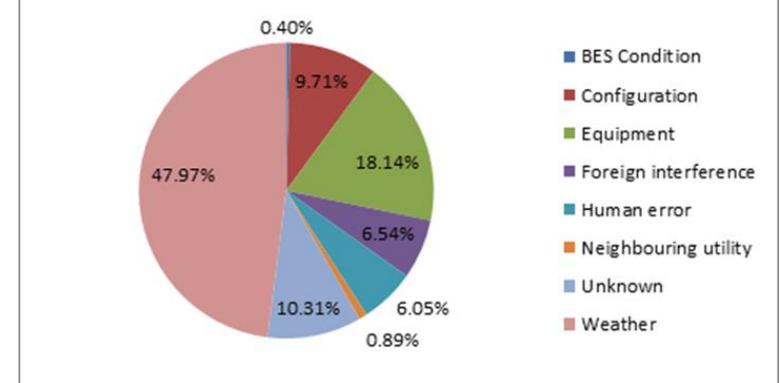
Reliability - Transmission (SAIFI)



2017 T-SAIDI Contribution by Causes



2017 T-SAIFI Contribution by Causes



Tx System – Primary Causes of Interruptions: (~66% from Weather & Equipment Failures)

Power outage causes (2017)



Weather

48%

Adverse weather (freezing rain, ice, lightning)



Equipment failure

18%

Majority of failures have occurred on Lines assets (Insulators, Wood Poles, Conductor, etc)



Unconfirmed causes

10%

Sometimes Hydro One crews can't determine the exact cause of an outage.



Configuration

10%

Issues relating to the configuration of the system at the time of the event or system conditions.

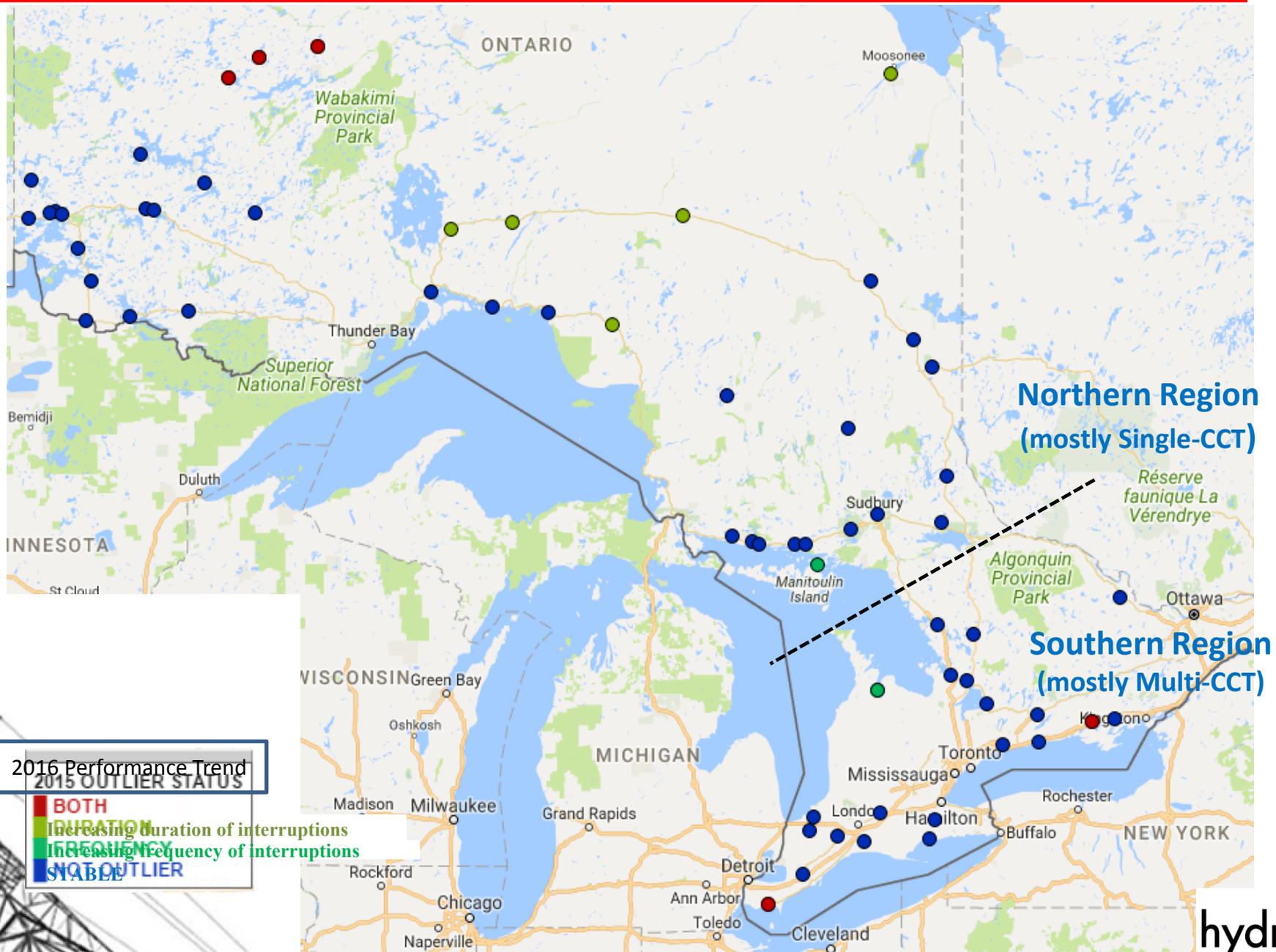


**Animal/vehicle
or Tree Contacts**

7%

Animal contacts with Hydro One's equipment, motor vehicle or tree-falling events

First Nations: Transmission Connections



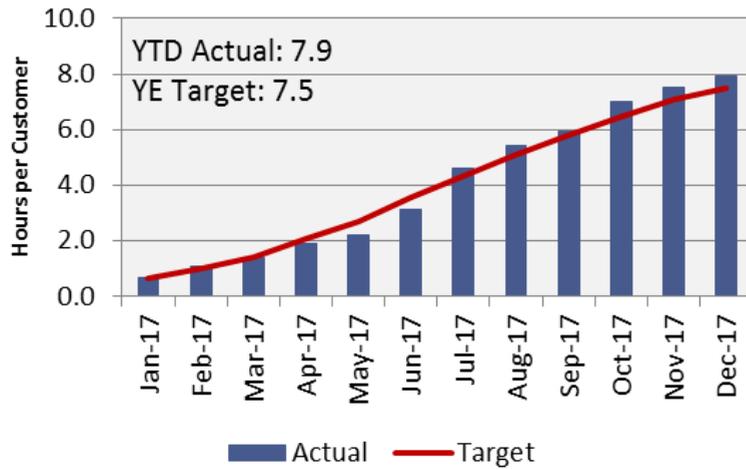
How Is Hydro One Improving Tx Reliability

- Increasing Capital Investments (Lines & Stations)
- Address Worst Performing Delivery Points and Transmission Circuits
- Leveraging Technology (Distance-to-Fault)
- Hardening Contingency Plans and Reducing Planned Outages (Bundling Work)

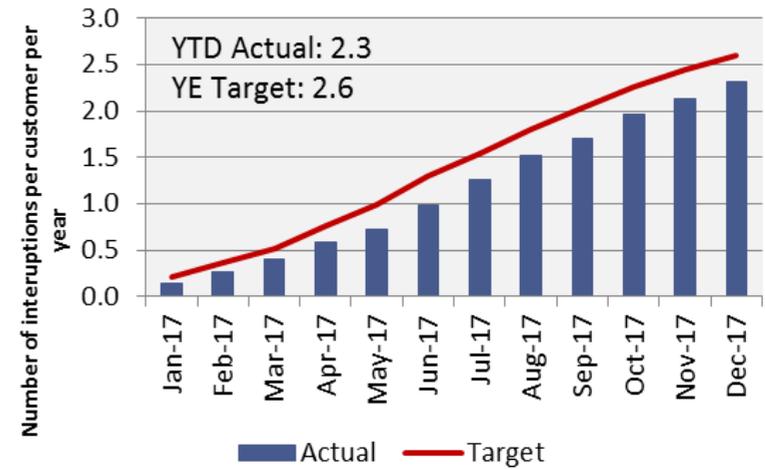
2017 Distribution System Reliability Performance

2017 Year End Overall Distribution Performance: SAIDI was 7.9 hrs and SAIFI was 2.3 interruptions per customer. Main causes of these interruptions are 1) Defective Equipment 2) Tree Contacts 3) Loss of Supply

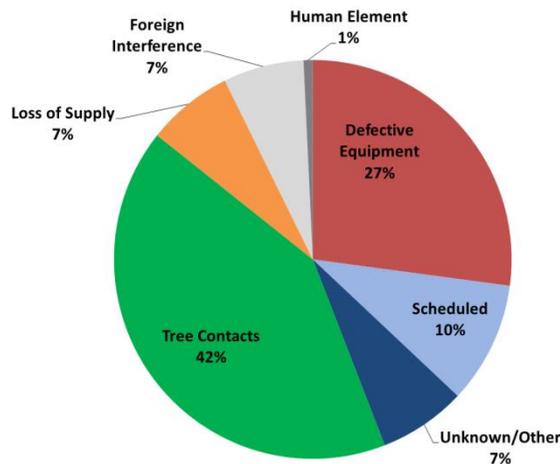
Reliability - Distribution (SAIDI)



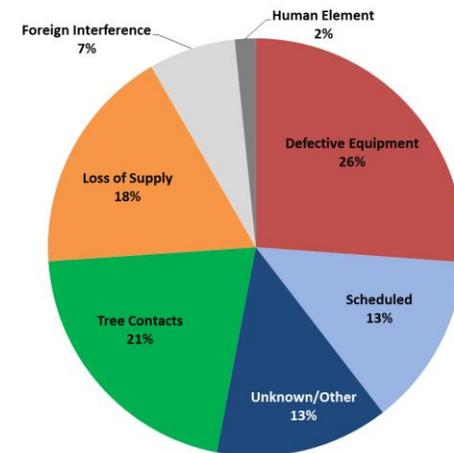
Reliability - Distribution (SAIFI)



Power Interruption Cause Contributions to SAIDI (2017)

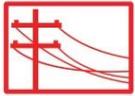


Power Interruption Cause Contributions to SAIFI (2017)



Dx System – Primary Causes of Interruptions: (~47% occurs from Tree Contacts & Equipment Failures)

Power outage causes (2017)



Equipment failure **26%**

Poles, transformers, lines failures can cause an outage.



Tree Contacts **21%**

Trees fall on lines during storms.



Loss of Supply **18%**

Transmission caused outage events that result in distribution system loss of supply



Scheduled outages **13%**

Occasionally, Hydro One needs to schedule power outages to safely replace or update equipment.



Unconfirmed causes **13%**

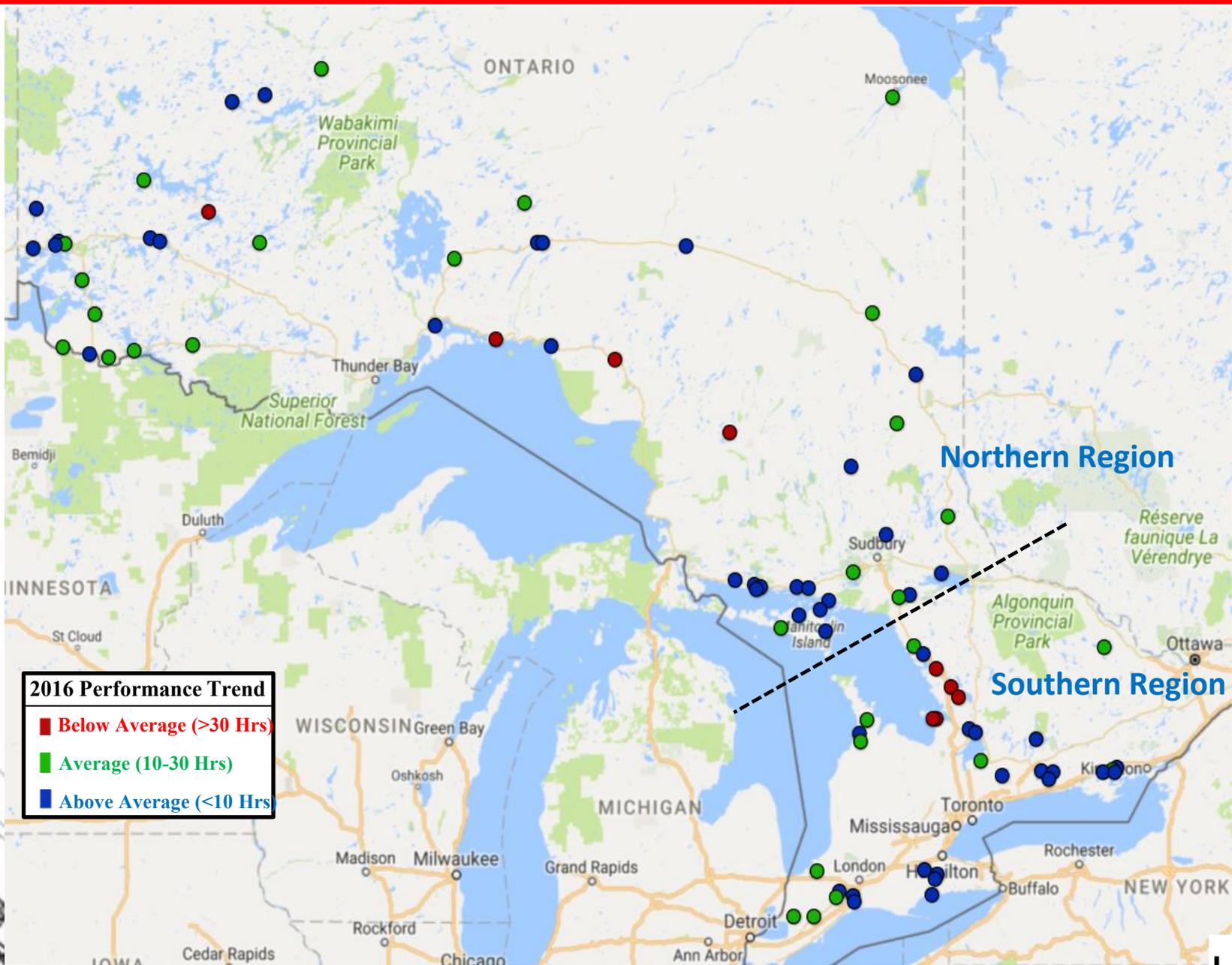
Sometimes Hydro One crews can't determine the exact cause of an outage.



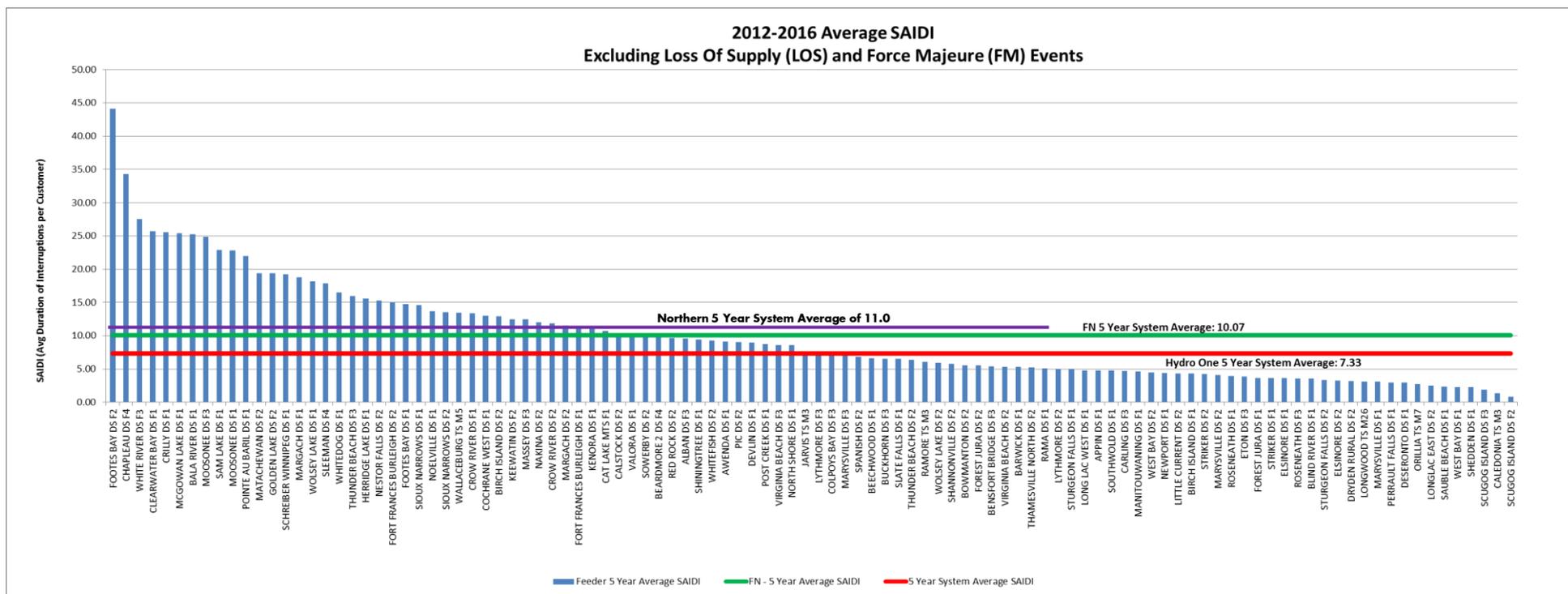
Animal or vehicle damage to equipment **7%**

Animal contacts with Hydro One's equipment and car accidents that damage poles.

First Nations: Distribution Connections

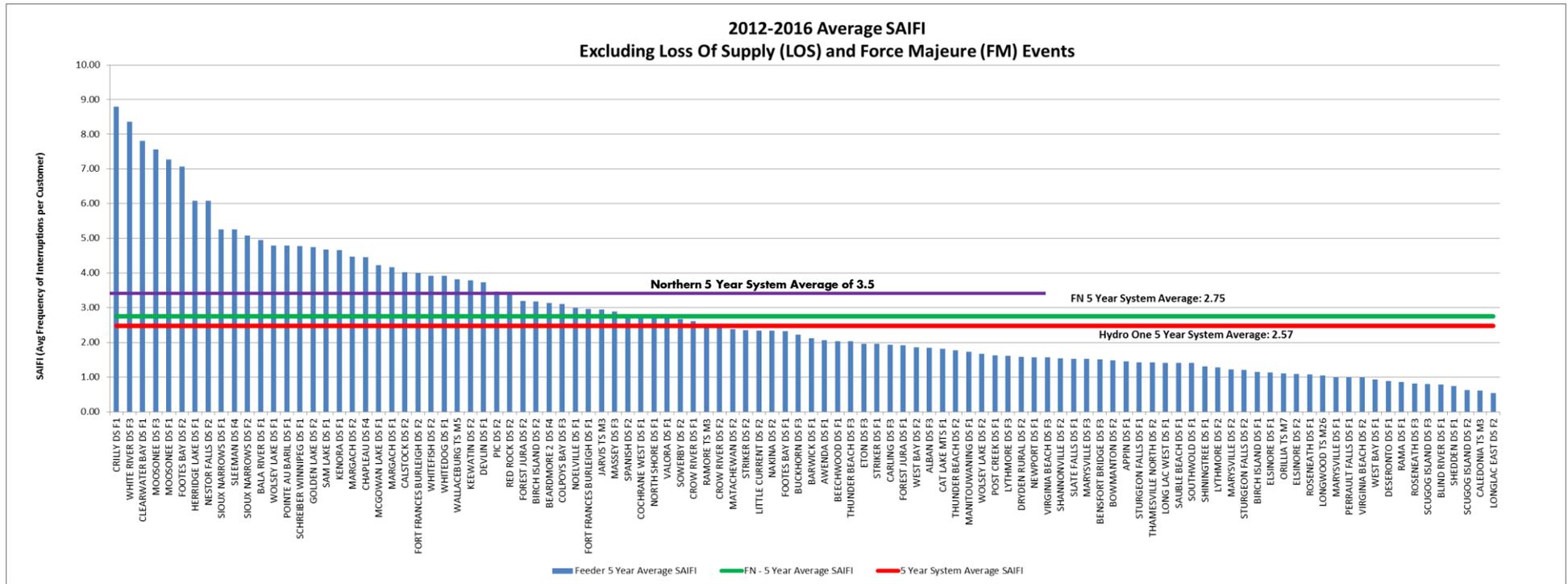


Dx Feeders Supply to First Nations Communities: 5 Year Average SAIDI Excluding Loss of Supply (LOS) and Force Majeure (FM) Events



The First Nations 5 Year average SAIDI performance is about 9% better than the Hydro One Northern system average. The primary SAIDI cause contributor is Tree Contacts. The secondary contributor is Defective Equipment.

Dx Feeders Supply to First Nations Communities: 5 Year Average SAIFI Excluding Loss of Supply (LOS) and Force Majeure (FM) Events



The First Nations 5 year average SAIFI performance is 27% better than the Hydro One Northern system average. The primary SAIFI cause contributor is Tree Contacts. The secondary contributor is Scheduled outages.

DISTRIBUTION GRID MODERNIZATION

Our plan to tackle Distribution Reliability:

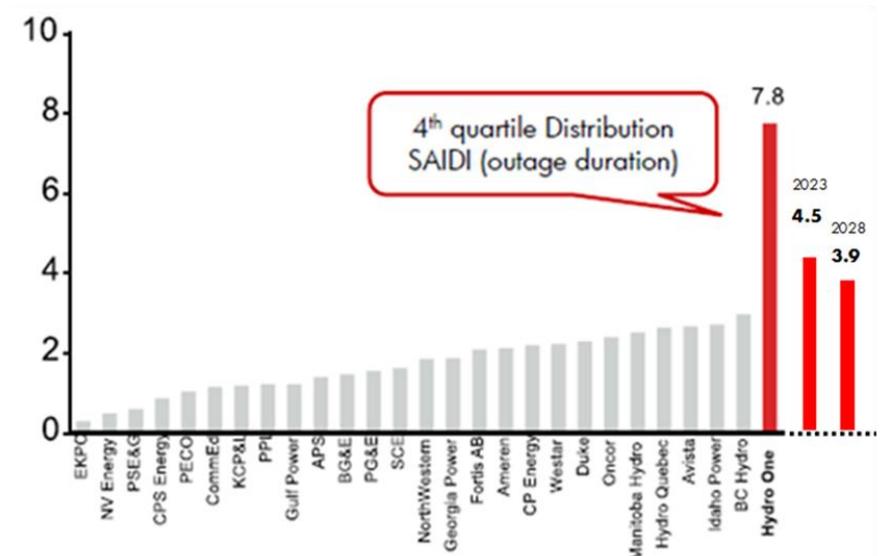
- New vegetation management strategy (20-40% improvement)
- Focusing on 30% worst performing feeders by deploying automation, self-healing, smart sectionalization, fault indicators and remote sensors (20 to 40% improvement)
- Storm prediction tools and processes to improve response and restoration (CAIDI) including leveraging smart meters (10% improvement)
- Grid Modernization and deployment of new technologies (i.e. energy storage, micro grids, electric vehicles) and non-wires solutions for addressing reliability and power quality.

AVERAGE SAIDI FROM 2013 – 2017

7.53

AVERAGE SAIFI FROM 2013 - 2017

2.51



Note: *Peer comparison shows 2016 Hydro One result with 2015 results for peers
Source: EIA 861 data; SNL; Company public disclosures; IEEE

DISTRIBUTION GRID MODERNIZATION

Our plan to tackle Distribution Reliability:

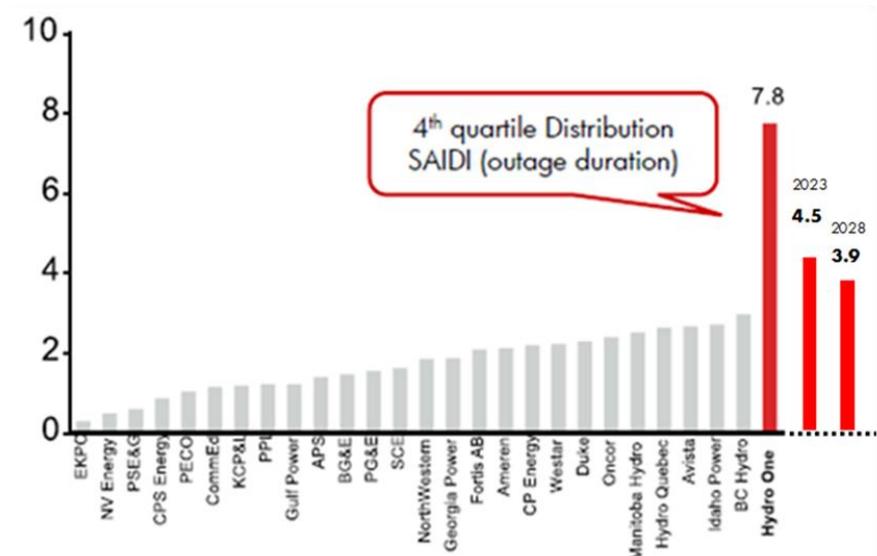
- New vegetation management strategy (20-40% improvement)
- Focusing on 30% worst performing feeders by deploying automation, self-healing, smart sectionalization, fault indicators and remote sensors (20 to 40% improvement)
- Storm prediction tools and processes to improve response and restoration (CAIDI) including leveraging smart meters (10% improvement)
- Grid Modernization and deployment of new technologies (i.e. energy storage, micro grids, electric vehicles) and non-wires solutions for addressing reliability and power quality.

AVERAGE SAIDI FROM 2013 – 2017

7.53

AVERAGE SAIFI FROM 2013 - 2017

2.51



Planned Work on Assets Serving First Nations Communities (Page 1)

Communities	Zone	Op Centre	Supply Station	Feeder	Upstream TS	TS Circuit	TS Feeder	Work Planned 2018-2023	Year In-Service
Alderville First Nation	3A	Peterborough	Bowmanton DS	F2	PORT HOPE TS DESN1	P4S / P3S	M15	TS Station Refurbishment	2025
	3A		Roseneath DS	F1	PORT HOPE TS DESN1	P4S / P3S	M15	TS Station Refurbishment	2025
	3A		Roseneath DS	F3	PORT HOPE TS DESN1	P4S / P3S	M15	TS Station Refurbishment	2025
Algonquins of Pikwakanagan	3B	Cobden	Golden Lake DS	F2	COBDEN TS	X2Y / X6	M6	Cobden TS M6 - Install 6 smart switches under worst performing feeder + Tx Line Refurb X2Y	2018 - 19
Animakee Wa Zhing #37	7	Kenora	Sioux Narrows DS	F2	Transmission Circuit	K6F	K6F		
Animbigoo Zaagiigan Anishinaabek (AZA)	7	Thunder Bay	Jellicoe DS #3	F1	Transmission Circuit	A4L		3ph expansion to connect new AZA subdivision + Tx Line Refurbishment	Pending customer signed agreement+ 2021
Anishinaabeg of Naongashiing	7	Fort Frances	Sleeman DS	F4	BARWICK TS	K6F	M2	Sleeman DS Rebuild and voltage conversion to 25kV	2023
Anishinabe of Wauzhushk Onigum (Rat Portage)	7	Kenora	Margach DS	F1	Transmission Circuit	K6F	K6F	Extend Keewatin DS F2 to pick up portion of Margach DS F1 (Rat Portage FN)	2019
Aroland First Nation	7	Thunder Bay	Nakina DS	F2	LONGLAC TS M2	A4L	A4L	Longlac TS to be relocated (customer driven project) + Tx Line Refurbishment	2021
Asubspeescheseewagong Netum Anishinabek (Grassy Narrows)	7	Kenora	Margach DS	F2	Transmission Circuit	K6F	K6F		
Aundeck-Omni-Kaning	6	Manitoulin	Little Current DS	F2	MANITOULIN TS	S2B	M26	Worst Performing Feeder Investment S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2018 2017
Beausoleil First Nation	5	Penetang	Thunder Beach DS	F2	WAUBAUSHENE TS	E26 / E27	M7	Waubashene M7 we are installing 7 remote operable switches and automating the existing redoser.	2018 for switches
	5		Thunder Beach DS	F3	WAUBAUSHENE TS	E26 / E27	M7	Waubashene M7 we are installing 7 remote operable switches and automating the existing redoser.	2018 for switches
	5		Awenda DS	F1	WAUBAUSHENE TS	E26 / E27	M7	Waubashene M7 we are installing 7 remote operable switches and automating the existing redoser. On Awenda DS-F1 we are planning to upgrade the supply to Christian Island	2019 for the upgrades
Big Grassy First Nation	7	Fort Frances	Sleeman DS	F4	BARWICK TS	K6F	M2	Sleeman DS Rebuild and voltage conversion to 25kV	2023
Biinjitiwaabik Zaaging Anishinaabek (BZA) (aka Rocky Bay First Nation)	7	Thunder Bay	Beardmore DS #2	F4	Transmission Circuit	A4L	A4L	Tx Line Refurbishment	
Brunswick House, Chapleau Cree FN , Chapleau Ojibway FN	6	Timmins	Chapleau DS	F4	Transmission Circuit	W2C	W2C		
Caldwell First Nation	1A	Essex	Kingsville TS	-	Kingsville TS	K2Z / K6Z	K2Z	Leamington TS feeder development + New Leamington TS + Kingsville Refurbishment	2018-20
	1A		Kingsville TS	-	Kingsville TS	K2Z / K6Z	K6Z	Leamington TS feeder development + New Leamington TS + Kingsville Refurbishment	2018-20
Cat Lake FN	7	Dryden	Cat Lake DS	F1	Transmission Circuit	E1C	E1C	Station Refurbishment on site (weather and ice road dependent), was deferred for two years due to warm weather) + Tx Line Refurbishment + Watay Line_to_Pickle Lake Connection	2018
Chippewas of Georgina Island First Nation	3A	Fenelon Falls	Virginia Beach DS	F2	BEAVERTON TS	M80B / M81B	M27	TS Station Work	2023
	3A		Virginia Beach DS	F3	BEAVERTON TS	M80B / M81B	M27	TS Station Work	2023
Chippewas of Kettle and Stony Point First Nation	1A	Lambton	Forest Jura DS	F1	Transmission Circuit	S2N	S2N	Tx Line Refurb S2N	2019
	1A		Forest Jura DS	F2	Transmission Circuit	S2N	S2N	Tx Line Refurb S2N	2019
Chippewas of Nawash Unceded First Nation	1B	Owen Sound	Colpoys Bay DS	F3	OWEN SOUND TS	B27S / B28S	M23	Mar DS and Feeder Development	2021
Chippewas of Rama First Nation	5	Orillia	Rama DS	F1	ORILLIA TS	M6E / M7E	M7	Sectionalizing M6E/M7E Switches + Tx Line Refurb M6E/M7E + TS station work	2017 - 21
	5		Orillia TS	M7	Transmission Circuit	M6E / M7E	M7E	Sectionalizing M6E/M7E Switches + Tx Line Refurb M6E/M7E + TS station work	2017 - 21
Chippewas of The Thames First Nation	1A	Strathroy	Longwood TS	M26	Transmission Circuit	L24L / L26L	L24L	Longwood TS Station Work	2023
	1A					L24L / L26L	L26L	Longwood TS Station Work	2023
	1A		Appin DS	F1	LONGWOOD TS	L24L / L26L	M26	Longwood TS Station Work	2023

Planned Work on Assets Serving First Nations Communities

(Page 2)

Communities	Zone	Op Centre	Supply Station	Feeder	Upstream TS	TS Circuit	TS Feeder	Work Planned 2018-2023	Year In-Service
Constance Lake First Nation	6	Kapuskasing	Calstock DS	F2	Transmission Circuit	H2N	H2N		
Couchiching First Nation	7	Fort Frances	Burleigh DS	F1	Transmission Circuit	F1B	F1B		
Curve Lake First Nation	3A	Peterborough	Buckhorn DS	F3	OTONABEE TS DESN2	C28C / H24C	M27	On Otonabee M27, install 3 DMS operable switches and upgrade existing recloser to improve reliability as part of worse performing feeders + Tx Line Refurb C28C	2018 - 23
Delaware Nation	1A	Kent	Thamesville North DS	F2	KENT TS DESN2	L28C / L29C	M24	TS Station Refurb	2025
Dokis	6	Sudbury	Noelville DS	F1	MARTINDALE TS	S21N / F25P	M5	Transformer Replacement Martindale M5 Rebuild + Martindale TS Refurbishment	2018 - 21
Eagle Lake	7	Dryden	Eton DS	F3	Transmission Circuit	K3D	K3D		
Ginoogaming First Nation	7	Thunder Bay	Longlac East DS	F2	LONGLAC TS	A4L	M1	Longlac TS to be relocated (customer driven project) + Tx Line Refurbishment	2021
Henvey Inlet	6	Sudbury	Alban DS	F3	MARTINDALE TS	S21N / F25P	M5	Wind Farm Connection Martindale M5 Rebuild + Martindale TS Station Refurbishment	2019 2018 - 21
Hiawatha First Nation	3A	Peterborough	Bensfort Bridge DS	F3	OTONABEE TS DESN2	C28C / H24C	M28	Relocation of Otonabee M28 from off-road to road allowance + Tx Line Refurb C28C	2019 - 23
Iskatewizaagegan #39 Independent First Nation	7	Kenora	Clearwater Bay DS	F1	Transmission Circuit	SK1	SK1		
Lac La Croix	7	Fort Frances	Crilly DS	F1	Transmission Circuit	M1S	M1S	Crilly DS rebuild	2020
Lac Seul First Nation	7	Dryden	Sam Lake DS	F1	Transmission Circuit	K3D	K3D		
Long Lake No. 58 First Nation	7	Thunder Bay	Longlac West DS	F1	LONGLAC TS	A4L	M1	Longlac TS to be relocated (customer driven project)	2021
Magnetawan First Nation	5	Parry Sound	Pointe Au Baril DS	F1	PARRY SOUND TS	E26 / E27	M1	TS Station Work	2022
Matachewan	6	Kirkland Lake	Matachewan DS	F2	KIRKLAND LAKE TS	K2 / A8K	G3K	G3K - Line Relocation + Tx Line Refurbishment A8K & K2 + Kirkland Lake TS Refurbishment	2020 - 23
Mattagami	6	Timmins	Shiningtree DS	F1	Transmission Circuit	T61S	T61S	Worst Performing Feeder Investment + Install Sectionalizing Switch for Shiningtree DS + Tx Line Refurb T61S	2018 - 24
M'Chigeeng First Nation	6	Manitoulin	West Bay DS	F1	MANITOULIN TS	S2B	M25	Station Refurbishment & Line Work	2022
	6		West Bay DS	F2	MANITOULIN TS	S2B	M25	Worst Performing Feeder Investment	2018
	6		West Bay DS	F2	MANITOULIN TS	S2B	M25	Station Refurbishment & Line Work	2022
Mishkeegogamang	7	Dryden	Crow River DS	F1	Transmission Circuit	E1C	E1C	Worst Performing Feeder Investment	2018
	7		Crow River DS	F2	Transmission Circuit	E1C	E1C	S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w Tx Line Refurbishment + Watay Line_to_Pickle Lake Connection	2017 2022
Mississauga	6	Algoma	North Shore DS	F1	Transmission Circuit	T1B	T1B	Voltage Conversion Project	2021
	6		Blind River DS	F1	STRIKER DS	T1B	F1		
	6		Striker DS	F1	Transmission Circuit	T1B	T1B		
	6		Striker DS	F2	Transmission Circuit	T1B	T1B		
Mississaugas of Scugog Island First Nation	3A	Bowmanville	Scugog Island DS	F2	WILSON TS DESN2	B23C / E29C	M12	New line build to off load part of M12 to the new Enfield TS + Tx Line Refurbishment B23C + Wilson TS Station Work	2019 - 23
	3A		Scugog Island DS	F3	WILSON TS DESN2	B23C / E29C	M12	New line build to off load part of M12 to the new Enfield TS + Tx Line Refurbishment B23C + Wilson TS Station Work	2019 - 23
Mississaugas of The New Credit First Nation	2	Simcoe	Lythmore DS	F2	CALEDONIA TS	N1M / N5M	M3	Lythmore Relief Project	2018
	2		Lythmore DS	F3	CALEDONIA TS	N1M / N5M	M3	Lythmore Relief Project	2018
	2		Jarvis TS	M3	Transmission Circuit	N21J / N22J	N21J	New lighting arrestors	2018

Planned Work on Assets Serving First Nations Communities

(Page 3)

Communities	Zone	Op Centre	Supply Station	Feeder	Upstream TS	TS Circuit	TS Feeder	Work Planned 2018-2023	Year In-Service
MoCreebec Eeyoud aka Moose Cree FN	6	Kapuskasing	Moosonee DS	F1 & F2	Transmission Circuit	M9K / T7M / T8M	M9K	New circuit T8M parallel to T7M was placed I/S in 2015 which will improve performance to Moosonee DS	2015
Mohawks of the Bay of Quinte	3B	Picton	Deseronto DS	F1	NAPANEE TS	X21 / X22	M4	Tx Line Refurbishment B23C + TS Station Work	2021 - 23
	3B		Shannonville DS	F2	BELLEVILLE TS	B23C / H23B	M6		
	3B		Marysville DS	F1	NAPANEE TS	X21 / X22	M4		
	3B		Marysville DS	F2	NAPANEE TS	X21 / X22	M4		
	3B		Marysville DS	F3	NAPANEE TS	X21 / X22	M4		
	3B		Beechwood DS	F1	NAPANEE TS	X21 / X22	M4		
Moose Cree First Nation	6	Kapuskasing	Moosonee DS	F1	Transmission Circuit	M9K / T7M / T8M	M9K	New circuit T8M parallel to T7M was placed I/S in 2015 which will improve performance to Moosonee DS.	2015
	6		Moosonee DS	F3	Transmission Circuit	M9K / T7M / T8M	M9K		
Moose Deer Point First Nation	5	Parry Sound	Footes Bay DS	F2	PARRY SOUND TS	E26 / E27	M2	TS Station Work	2022
Munsee-Delaware Nation	1A	Strathroy	Appin DS	F1	LONGWOOD TS	L24L / L26L	M26	Longwood TS Station Work	2023
	1A		Longwood TS	M26	Transmission Circuit	L24L / L26L	L26L	Longwood TS Station Work	2023
	1A						L24L	Longwood TS Station Work	
Naicatchewenin	7	Fort Frances	Devlin DS	F1	BARWICK TS	K6F	M1	Devlin DS HV Fuse upgrade, and inline reclosers OCR 906 and 953 upgrade on F1	2018
Naotkamegwanning	7	Kenora	Sioux Narrows DS	F1	Transmission Circuit	K6F	K6F		
	7		Sioux Narrows DS	F2	Transmission Circuit	K6F	K6F		
Nigigoonsiminikaaning First Nation (aka Red Gut First Nation)	7	Fort Frances	Burleigh DS	F2	Transmission Circuit	F1B	F1B	Burleigh DS F2 1ph to 3ph conversion	2020
Nipissing First Nation	6	Nipissing	Sturgeon Falls DS	F1	CRYSTAL FALLS TS	H23S / H24S	M2		
	6		Sturgeon Falls DS	F2	CRYSTAL FALLS TS	H23S / H24S	M2		
Northwest Angle No. 33 / Whitefish Bay 33A	7	Kenora	Sioux Narrows DS	F2	Transmission Circuit	K6F	K6F	Extend Keewatin DS F2 to pick up portion of Margach DS F1 (Rat Portage FN)	2019
Obashkaandagaang	7	Kenora	Keewatin DS	F2	Transmission Circuit	SK1	SK1		
Ochiichagwe'babigo'ining First Nation	7	Kenora	Kenora DS	F1	Transmission Circuit	T1L / T2L	T2L	Station Refurbishment on site	2021
Ojibway Nation of the Saugeen	7	Dryden	Valora DS	F1	Transmission Circuit	29M1	29M1		
Ojibways of Onigaming First Nation	7	Fort Frances	Nestor Falls DS	F2	Transmission Circuit	K6F	K6F		
Oneida Nation of the Thames	1A	Strathroy	Southwold DS	F1	EDGEWARE TS	W44LC / W45LS	M2	Aylmer TS new feeder + Edgeware Station Work	2018 - 21
	1A		Shedden DS	F1	EDGEWARE TS	W44LC / W45LS	M2	Aylmer TS new feeder + Edgeware Station Work	2018 - 21
Pays Plat	7	Thunder Bay	Schreiber Winnipeg DS	F1	Transmission Circuit	A5A	A5A	-Schreiber Winnipeg DS Regulator replacement and MUS facility installation -Schreiber town rebuild	2018 -2020
Pic Mobert	7	Thunder Bay	White River DS	F3	Transmission Circuit	M2W	M2W	F1 and F2 station recloser upgrade to Viper, protection coordination update on F1	2018
Pic River First Nation (Biigtigong Nishnaabeg First Nation)	7	Thunder Bay	Pic DS	F2	Transmission Circuit	M2W	M2W		
Rainy River First Nation	7	Fort Frances	Barwick DS	F1	BARWICK TS	K6F	M2		
Red Rock (aka Lake Helen First Nation)	7	Thunder Bay	Red Rock DS	F2	Transmission Circuit	56M1	56M1		
Sagamok Anishnawbek	6	Algoma	Massey DS	F3	Transmission Circuit	S2B	S2B	S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2017
Saugeen First Nation	1B	Owen Sound	Elsinore DS	F1	OWEN SOUND TS	B27S / B28S	M25	Worst Performing Feeder Investment	2018
	1B		Elsinore DS	F2	OWEN SOUND TS	B27S / B28S	M25	Worst Performing Feeder Investment	2018
	1B		Sauble Beach DS	F1	OWEN SOUND TS	B27S / B28S	M25	Worst Performing Feeder Investment	2018

Planned Work on Assets Serving First Nations Communities (Page 4)

Communities	Zone	Op Centre	Supply Station	Feeder	Upstream TS	TS Circuit	TS Feeder	Work Planned 2018-2023	Year In-Service
Seine River First Nation	7	Fort Frances	Crilly DS	F1	Transmission Circuit	M1S	M1S	Crilly DS rebuild	2020
Serpent River	6	Algoma	Spanish DS	F2	Transmission Circuit	S2B	S2B	S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2017
Shawanaga First Nation	5	Parry Sound	Carling DS	F3	PARRY SOUND TS	E26 / E27	M1	Carling DS - Nobel Rd & Avro Arrow Rd Line Relocate Pt 1 + TS Station Work	2018 - 22
Sheguiandah	6	Manitoulin	Little Current DS	F2	MANITOULIN TS	S2B	M26	Worst Performing Feeder Investment S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2018 2017
Sheshegwaning	6	Manitoulin	Wolsey Lake DS	F1	MANITOULIN TS	S2B	M25	Station Refurbishment	2022
	6		Manitouwaning DS	F1	MANITOULIN TS	S2B	M26	Worst Performing Feeder Investment Transformer Replacement	2018 2018
	6		West Bay DS	F2	MANITOULIN TS	S2B	M25	Worst Performing Feeder Investment Station Refurbishment & Line Work Worst Performing Feeder Investment S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2018 2022 2018 2017
Shoal Lake No. 40	7	Kenora	Clearwater Bay DS	F1	Transmission Circuit	SK1	SK1		
Six Nations of the Grand River	2	Simcoe	Lythmore DS	F2	CALEDONIA TS	N1M / N5M	M3	Lythmore Relief Project	2018
	2		Lythmore DS	F3	CALEDONIA TS	N1M / N5M	M3	Lythmore Relief Project	2018
	2		Jarvis TS	M3	Transmission Circuit	N21J / N22J	N21J	New lighting arrestors	2018
	2						N22J	New lighting arrestors	2018
	2		Caledonia TS	M3	Transmission Circuit	N1M / N5M	N5M	Lythmore Relief Project	2018
	2						N1M	Lythmore Relief Project	
	2		Newport DS	F1	BRANTFORD TS	M32W / M33W	M27	Newport DS Conversion	2018
Slate Falls First Nation	7	Dryden	Slate Falls DS	F1	Transmission Circuit	E1C	E1C	Tx Line Refurbishment + Watay Line_to_Pickle Lake Connection	2020-23
Stanjikoming/Mitaanjigamiing First Nation	7	Fort Frances	Burleigh DS	F1	Transmission Circuit	F1B	F1B		
Taykwa Tagmou Nation	6	Kapuskasing	Cochrane West DS	F1	Transmission Circuit	A4H	A4H	Station Refurbishment + Tx Line Refurbishment	2019 -21
Temagami First Nation	6	New Liskeard	Herridge Lake DS	F1	Transmission Circuit	D2L	D2L	Demand Enhancement - Line Regulator + Tx Line Refurb D2L	2018
Thessalon	6	Algoma	Sowerby DS	F2	Transmission Circuit	T1B	T1B	Station Refurbishment	2019
Wabaseemoong Independent Nations	7	Kenora	Whitedog DS	F1	WHITEDOG FALLS GS	FP3H	FP3H	Station Refurbishment on site	2020
Wabauskang First Nation	7	Dryden	Perrault Falls DS	F1	Transmission Circuit	E4D	E4D	E4D - Upgrade to operate at Higher Temperature	2018
Wabigoon Lake Ojibway Nation	7	Dryden	Dryden Rural DS	F2	DRYDEN TS	FP25A1A2	M1	Dryden TS Station Refurbishment	2018
Wahgoshig	6	Kirkland Lake	Ramore TS	M3	Transmission Circuit	A9K	A9K	Demand Enhancement - Line Regulator	2018
Wahnapiatae	6	Sudbury	Post Creek DS	F1	MARTINDALE TS	S21N / F2SP	M7	Martindale TS station refurbishment	2021
Wahta Mohawks First Nation	5	Bracebridge	Bala River DS	F1	MUSKOKA TS	M6E / M7E	M1	Muskoka M1- relocating 10km of line, and installing DMS operable switches + Tx Line Refurb + TS Station Refurbishment	2018 for switches, 2019
	5		Footes Bay DS	F1	PARRY SOUND TS	E26 / E27	M2	TS Station Work	2022
	5		Footes Bay DS	F2	PARRY SOUND TS	E26 / E27	M2	TS Station Work	2022
Walpole Island	1A	Kent	Wallaceburg TS	M5	Transmission Circuit	N5K	N5K	N5K - Connect Otter Creek Generation	2019
Wasauksing First Nation	5	Parry Sound	McGowan Lake DS	F1	PARRY SOUND TS	E26 / E27	M3	TS Station Work	2022
Whitefish Lake (Atikameksheng Anishnawbek)	6	Sudbury	Whitefish DS	F2	Transmission Circuit	S2B	S2B	Regulator Replacement	2018
								S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2017

Planned Work on Assets Serving First Nations Communities (Page 5)

Communities	Zone	Op Centre	Supply Station	Feeder	Upstream TS	TS Circuit	TS Feeder	Work Planned 2018-2023	Year In-Service
Whitefish River	6	Manitoulin	Birch Island DS	F1	MANITOULIN TS	S2B	M26	Worst Performing Feeder Investment	2018
	6		Birch Island DS	F2	MANITOULIN TS	S2B	M26	Worst Performing Feeder Investment S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2018 2017
Wikwemikong	6	Manitoulin	Manitouwaning DS	F1	MANITOULIN TS	S2B	M26	Worst Performing Feeder Investment	2018
	6		Wolsey Lake DS	F2	MANITOULIN TS	S2B	M25	Worst Performing Feeder Investment S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2018 2017
Zhiibaahaasing First Nation	6	Manitoulin	Wolsey Lake DS	F1	MANITOULIN TS	S2B	M25	Station Refurbishment	2022
								Worst Performing Feeder Investment S2B-e shield-wire, poles, switches, insulators are being replaced. Surge arresters being installed at S2B-w	2018 2017