

Agenda

- About Halton Hills Hydro
- Customer Engagement
- Distribution System Plan Overview
- Major Capital Projects
- Operations, Maintenance & Administration
- Bill Impacts



Mission Statement

"To provide Halton Hills with electricity distribution excellence in a safe and reliable manner."

Corporate Objectives

- Safety
- Reliability
- Competitive Rates
- Financial Metrics

- Conservation
- Environmental
- Community Focused
- Smart Grid Implementation

About Halton Hills Hydro

Total Customers: 22,000

Service Area: 280 SQ KM

Hydro Lines: 1,527 km

Overhead: 890 km

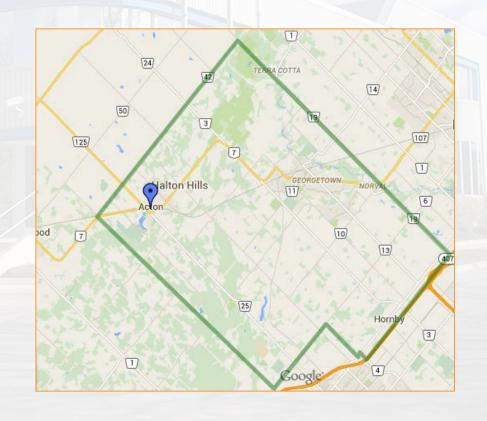
Underground: 637 km

Hydro Poles: 8,780

Transformers: 3,842

Municipal Population: 59,100

Employees: 52



Performance Excellence



2013 EDA LDC Performance Excellence Award

- Occupational Health & Safety
- Operational Excellence
- Financial Operations
- Retail Strategies for Conservation& Demand Management
- Contribution to Community



OEB Utility Benchmarking report

- Measuring distributors cost efficiency & productivity
- Halton Hills Hydro continues to rank in the top grouping for cost efficiency
- One of only 6 LDCs in Group I
- Total costs 25% or more below predicted levels

OEB 2015 Efficiency Rankings

Group I E.L.K. Energy Inc.

Halton Hills Hydro Inc.

Hearst Power Distribution Hydro Hawkesbury Inc. Northern Ontario Wires Inc. Wasaga Distribution Inc.

Group II

Cooperative Hydro Embrun Inc. Enersource Hydro Mississauga Inc.

Entegrus Powerlines
Espanola Regional Hydro
Essex Powerlines Corporation
Grimsby Power Incorporated
Haldimand County Hydro Inc.
Kitchener
Lakefront Utilities Inc.

London Hydro Inc.

Milton Hydro Distribution Inc.

Newmarket

Oshawa PUC Networks Inc.
Welland Hydro-Electric System

More Efficient

Bluewater Power Distribution Brantford Power Inc.

Burlington Hydro Inc.

Combridge And North De

Cambridge And North Dumfries Centre Wellington Hydro Ltd.

Collus Power Corporation

Erie Thames Powerlines

Fort Frances Power Corporation Guelph Hydro Electric Systems

Horizon Utilities Corporation
Hydro 2000 Inc.

Hydro One Brampton Networks Hydro Ottawa Limited

Innisfil Hydro Distribution
Kenora Hydro Electric Corporation

Kingston Hydro Corporation

Group III

Niagara Peninsula Energy Inc. Niagara-On-The-Lake Hydro Inc.

Less Efficient

Norfolk Power Distribution Inc.
North Bay Hydro Distribution

Orangeville Hydro Limited
Orillia Power Distribution

Ottawa River Power Corporation

Powerstream Inc.

Rideau St. Lawrence Distribution

Sioux Lookout Hydro Inc.

St. Thomas Energy Inc.

Thunder Bay Hydro Electricity Veridian Connections Inc.

Waterloo North Hydro Inc.

Westario Power Inc.
Whitby Hydro Electric Corporation

Lakeland Power Distribution Ltd.

Group IV

Atikokan Hydro Inc.
Canadian Niagara Power Inc.

Chapleau Public Utilities Enwin Utilities Ltd.

Festival Hydro Inc.

Greater Sudbury Hydro Inc. Midland Power Utility

Oakville Hydro Electricity

Peterborough Distribution PUC Distribution Inc.

Renfrew Hydro Inc. Tillsonburg Hydro Inc.

Wellington North Power

Group V

Algoma Power Inc.

Hydro One Networks Inc.

Toronto Hydro-Electric System

West Coast Huron Energy Inc. Woodstock Hydro Services Inc.

Source: Pacific Economics group Research, LLC (PEG)







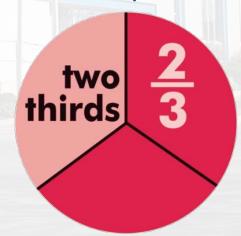
Customer Engagement in Rate Setting

- Telephone Survey of 426 Customers
- Online Survey of 930 Customers
- In Person Residential and Commercial Focus Groups

"... are willing to pay more for increased tree trimming to improve reliability..."



"... of ALL respondents are willing to pay more per month to replace aging equipment to improve safety and reliability..."



"... about 2/3 of respondents believe LDCs should be pro-actively replacing equipment..."



- Participation in over 20 community events
- Glen Williams tree trimming public information session January
- Community Open House June
- Halton Hills Hydro has over 4500 followers on Facebook and Twitter

2014 Customer Satisfaction Survey

Halton Hills Hydro UtilityPULSE Report Card®	
Price and Value	В
Customer Service	Α
Company Leadership	
Corporate Stewardship	
Operational Effectiveness	
Power Quality and Reliability	
OVERALL	Α

How you rated us in our 2014 Customer Satisfaction Survey		
Provides consistent, reliable electricity	89%	
Quickly handles outages and restores power	82%	
Makes electricity a top priority for employees and contractors	88%	
Is a trusted and trustworthy company	86%	
Overall the utility provides excellent quality services	85%	

Halton Hills Hydro Charges represent 22% of total electricity charges

Sample Residential Electricity Bill

YOUR INVOICE SUMMARY		
Description	Consumption	Amount
Your Electricity Charges		
Summer OFF - Peak @ 8.0¢	940.69	75.26
Summer MID - Peak @ 12.2¢	257.01	31.36
Summer ON - Peak @ 16.1¢	263.29	42.39
Delivery		88.07
Regulatory Charges		8.81
Debt Retirement Charge	1,460.99	10.23
Total Electricity Charges		\$256.12
HST # 86742 9623 RT		33.30
Subtotal		\$289.42
Ontario Clean Energy Benefit -10	_% 1	28.95CR
Total Electricity		\$260.47

HHH: \$57.71 Hydro One/IESO: \$19.79 Losses: \$10.57







Guiding Principles for our Distribution System Plan

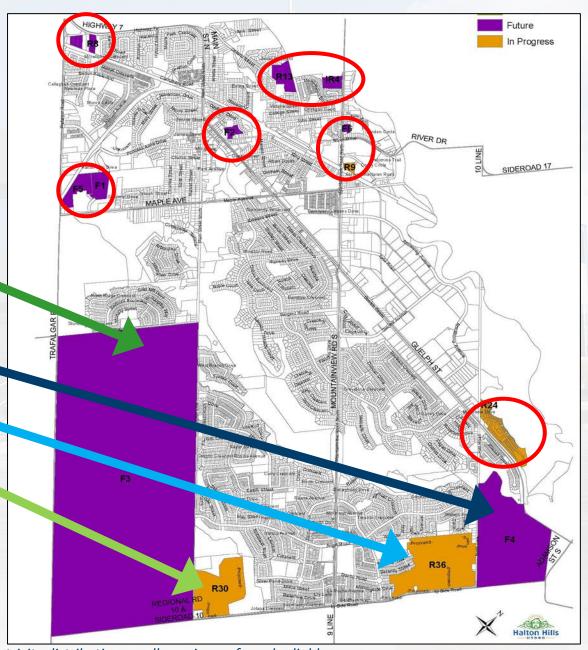
- Safety for our crews and the public
- System reliability
- Customer feedback
- Value proposition
 - Finding efficiencies
 - Pacing and prioritization of expenditures
- Modernizing our electricity system
 - Smart grid, automation, outage management



Load Growth in Halton Hills

Georgetown

- Vision Georgetown up to 7,000 residential lots, 7 schools, mixed commercial
- **300-400** homes
- 747 homes
- 273 homes
- Several other projects totalling 700+ homes



Load Growth in Halton Hills

Acton

- 23 homes
- 118 homes
- 6 homes
- 16 homes

Rural

187 homes planned in projects throughout rural Halton Hills



IESO Regional Planning Process

- IESO Northwest GTA Integrated Regional Resource Plan
- Identifies need for Halton Hills Hydro to construct a Municipal Transformer Station to meet near term load requirements
- Many of the projects in this plan are required to enable supply from the new transformer station

NORTHWEST GREATER TORONTO AREA INTEGRATED REGIONAL RESOURCE PLAN

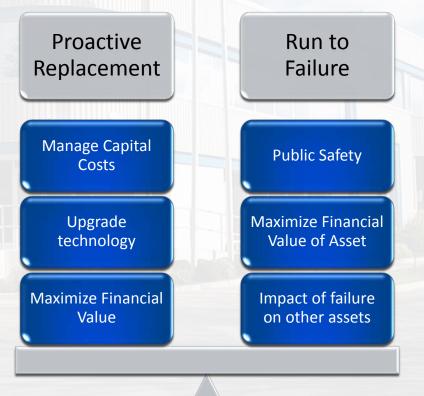
Part of the GTA West Planning Region | April 28, 2015



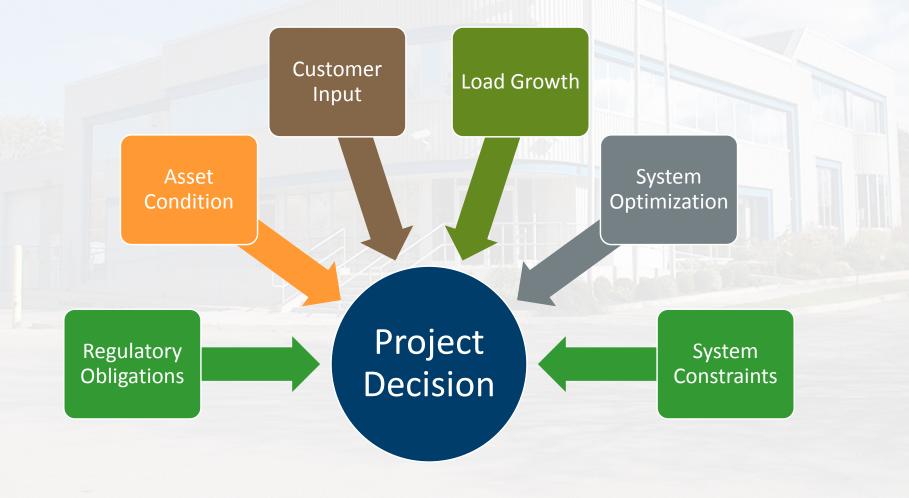
Planning & Prioritizing



2/3 of respondents believe LDCs should be pro-actively replacing equipment rather than allowing assets to run to failure



How we prioritize our projects



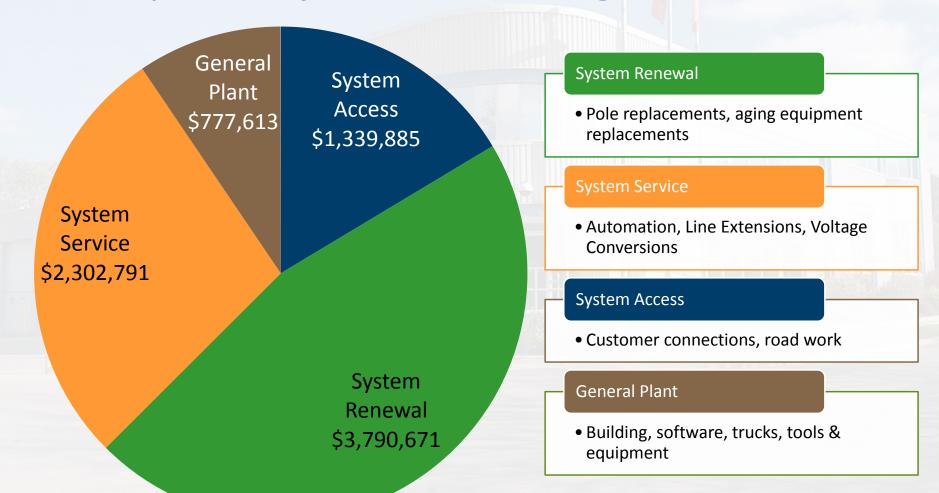


5 Year Capital Expenditures			
2016	\$8,210,960		
2017	\$6,851,919		
2018	\$8,364,511		
2019	\$9,468,640		
2020	\$7,952,003		
	\$40,848,033		

What our Customers told us.

- Replace aging equipment to improve safety and reliability (71% of respondents)
 - 41% of our 2016 budget is for System Renewal projects
- Adding automation and technology to reduce outage time (51% of respondents)
 - 26% of our 2016 budget is for System Service projects

2016 Capital Projects - Total Budget: \$8,210,960







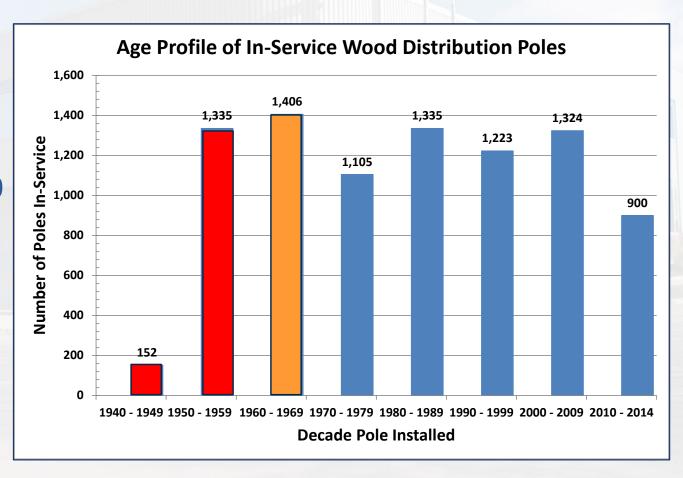
History of Halton Hills Hydro Infrastructure

- Halton Hills Hydro-Electric Commission formed in 1980
 - Amalgamation of Georgetown Hydro Electric Commission and Acton Hydro Electric Commission
 - Purchase of Hydro One owned assets serving Esquesing Township
- Aging Infrastructure
 - Many of the assets acquired by the new Halton Hills Hydro were already aging in 1980

Age of Poles

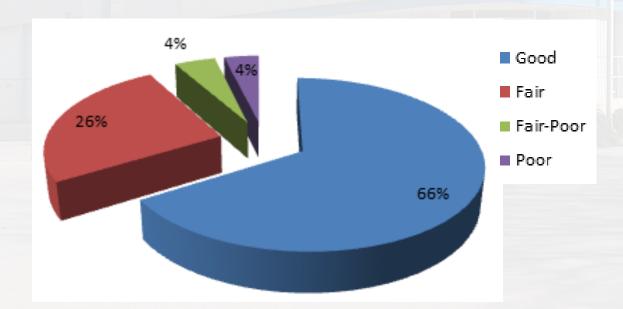
Expected Pole Lifespan: 50 years

- 1400 poles older than 1960
- Another 1400 poles older than 1970



Pole Condition

Condition	Percent	Poles
Poor	4%	351
Fair-Poor	4%	351
Fair	26%	2283
Good	66%	5799
Total		8780



Pole Replacement Factors

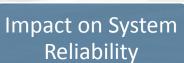
Age and Condition of Pole



Proximity to public spaces



Highest voltage on pole



Other Factors and Opportunities

Pole Replacement Project: \$2,000,000

Project: 275 poles replaced /year

- Leaving these poles in place can:
 - Pose a risk to public safety
 - Can lead to a cascading effect where a falling pole takes down adjacent poles as well
 - Increase unplanned outages and restoration times



Poletrans Transformer Replacements: \$538,000

- Obsolete equipment can only be replaced with padmounted transformers
- If a unit fails, power restoration could be lengthy
- Equipment is difficult to work with and can pose a safety concern for crews
- Needs to be a proactive replacement re safety risk and obsolete equipment



Cross Substation Switchgear: \$714,000

- Replacement of 40 year old switchgear at Cross Substation
- Obsolete equipment cannot be readily replaced in an unplanned outage
- Lengthy manufacturer lead times
- Replacement will reduce operating costs







Trafalgar Rd 27.6 kV Extension: \$671,000

- Extending 27.6kV system to support growth
- Over 170 townhomes planned in the expansion area, plus additional development anticipated
- Construction needs to begin at least 1 year in advance of developer needing site power



Voltage Conversions – 5 SideRoad: \$408,000

- Converting older 8.32kV system to 27.6kV
- Improve system reliability
- Prepare for future growth –
 Ontario's Places to Grow (Vision Georgetown)
- Finding efficiencies replacing aging equipment acquired in 1980 while preparing for future growth





Feeder Reinforcement – Delrex Blvd: \$346,000

- Existing system is over 50 years old
 - Built when homes had smaller service sizes
- Replacing end of life poles and installing larger diameter wires able to carry increased power flows
- Support in-fill load growth









9th Line – Steeles to 10 Sideroad: \$831,245

Project: Region road improvement project

- Required by Public Service Works on Highways Act to accommodate
- Dependent upon Region acquiring land and easements
- Project could be delayed by months or years – dependent upon Region timing







Building & Property Upgrades: \$200,000

Resurfacing of Garage Roof

- Current roof last resurfaced in 1990
- Pacing of expenditures:
 - Office roof resurfaced in 2015
 - Garage area to be resurfaced in 2016
- Risk of non completion: Damage to equipment and materials stored in garage if roof leaks
 - Office roof was beginning to leak prior to resurfacing

Parking Lot Paving

- Current surface has extensive frost heaving, pooling of water in heavy rain
- Safety for employees and customers

Computer System Upgrades: \$175,000

- Interactive Voice Response
 - Improved customer experience
 - Expanded ways to meet customers needs
 - Improved customer self-service options to 24/7

- Server hardware upgrades
 - Reduce risk of hardware failure
 - Reduce risk of Customer
 Information System downtime
 which may directly impact our
 ability to bill customers on a
 timely basis
 - Reduce maintenance costs

Vehicles: \$145,000

- 12 year replacement strategy for line trucks
- Pacing of expenditures:
 - 2016 purchase new chassis for digger derrick, 2017 purchase new boom & body
- Affects safety for crew
- Affects reliability for customers









- Control Room
 - Partnership with Oakville Hydro
 - 24/7 system monitoring
 - Improved response to outages
 - Improved worker safety
- Safety Program
 - Innovative safety program partnership with safety partner and neighbouring utilities
 - Enhanced safety awareness and compliance
- New Enterprise Reporting System
 - Enhanced reporting and financial analysis capabilities
 - Robust job estimating package improves engineering department productivity



What our Customers Told Us

Which Operational Items are you willing to pay more for?

	Surveys & Focus Groups Summary	Business Focus Group	Residential Focus Group
Increased tree-trimming to improve reliability	53%	86%	40%
Proactive outage management communication system	44%	86%	40%
Educating customers about energy conservation	26%	43%	20%
Educating customers about electricity safety	18%	43%	20%
Increased website self-service options	24%	29%	30%
Extended office hours	6%	0%	0%

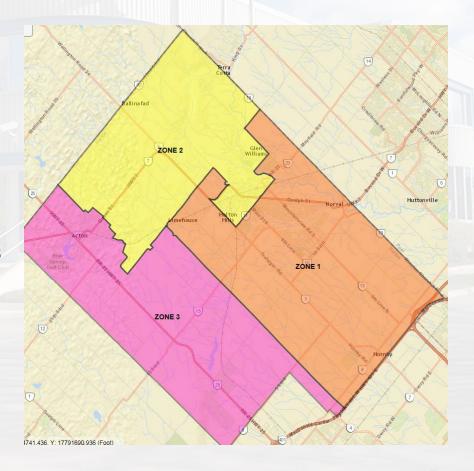
Source: UtilityPulse 2015 Halton Hills Hydro Customer Engagement Survey

Tree Trimming

- Safety
- We are mandated by the Canadian Electrical Code to maintain minimum clearances from our power lines
- Minimum clearance of 3m from primary lines and 1m from secondary lines
- Reliability
- Remove tree branches that could contact lines and cause outages

3 year tree trimming cycle for Halton Hills service area

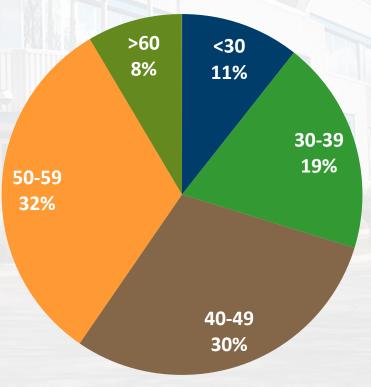
Annual public meetings in tree trimming zone



Succession Planning

- Our current staff complement is 52 employees
- 2 new staff members in 2016
 - New Apprentice for Journeyman
 Lineman 8 year commitment
 - Cross training of core functions throughout utility
 - Leverage existing staff to accomplish work more efficiently

2014 Employee Demographics



Monthly Billing

- Mandated by Ontario Energy Board for 2016 for all Local Distribution Companies in Ontario
- Will double our postage costs
- Will double our printing and paper costs
- Will require an additional billing representative to handle increased workload



Revenue Requirement

Service Revenue Requirement	2016 Proposed	
OM&A Expenses	6,859,246	
Amortization / Depreciation	2,356,442	
Income Taxes	(220,666)	
Deemed Interest and Equity	3,477,714	
Service Revenue Requirement	12,472,736	





Bill Impacts

Bill Impacts – Residential (91% of Customers)

Based on a typical residential customer bill of 800 kWh per month				
	Current Charges	Proposed Charges	\$Change	
Halton Hills Hydro Charges				
Distribution Charges	\$24.76	\$28.65	\$3.89	
Ice Storm Cost Recovery (ends Oct 31, 2016)	\$2.23	\$2.33	\$0.10	
	\$26.99	\$30.98	\$3.99	
Other Delivery Charges	\$19.92	\$17.77	-\$2.15	
Regulatory Charges	\$5.08	\$5.07	-\$0.01	
Time of Use Charges	\$81.71	\$81.71	\$0	
HST	\$17.38	\$17.62	\$0.24	
Total Bill Impact May 1 – Oct 31	\$151.08	\$153.15	\$2.07	
Ice Storm Cost Recovery (ends Oct 31, 2016)	After Oct 31, 2016	\$0.00	-\$2.33	
Total Bill Impact After Oct 31, 2016	\$151.08	\$150.82	-\$0.26	

Bill Impacts – Small Commercial (8% of Customers)

Based on a typical small commercial customer bill of 2000 kWh per month				
	Current Charges	Proposed Charges	\$Change	
Halton Hills Hydro Charges				
Distribution Charges	\$47.35	\$54.76	\$7.41	
Ice Storm Cost Recovery (ends Oct 31, 2016)	\$4.87	\$5.08	\$0.21	
	\$52.22	\$59.84	\$7.62	
Other Delivery Charges	\$45.86	\$40.66	-\$5.20	
Regulatory Charges	\$26.34	\$26.29	-\$0.05	
Time of Use Charges	\$204.28	\$204.28	\$0	
HST	\$42.73	\$43.04	\$0.31	
Total Bill Impact May 1 – Oct 31	\$371.43	\$374.11	\$2.68	
Ice Storm Cost Recovery (ends Oct 31, 2016)	After Oct 31, 2016:	\$0.00	-\$5.08	
Total Bill Impact After Oct 31, 2016	\$371.43	\$369.24	-\$2.19	



Summary

- Halton Hills Hydro has a comprehensive 5 year investment strategy
 - Halton Hills Hydro listens to our customers
- Halton Hills Hydro continues to find efficiencies in achieving performance excellence





