

Essex Powerlines Corporation

YOUR COMMUNITY PARTNER

2018 Council Presentation



Intro Video

Q:\Community Meeting\essex_powerlinesv2.mp4



Who We Are



Municipality of
Leamington
live | play | work



The Town of
Amherstburg
ONTARIO

Essex Power Corporation Shareholders



- Serves as the holding company
- Provides corporate services and direction in the areas of finance, new business development and marketing



Regulated Local Distribution Company

- Customer Services
- Billing/Account Info
- Energy Conservation
- Community Events



Service Company

- Provides maintenance, construction and other third party services to customers and municipal shareholders



Energy Management Services Company

- Provides energy management services including, settlement, distributed generation expertise and consulting services to customers



Meter Data Management Company

- Provides a web-based service which delivers the information needed for distribution utilities to more informed business decisions

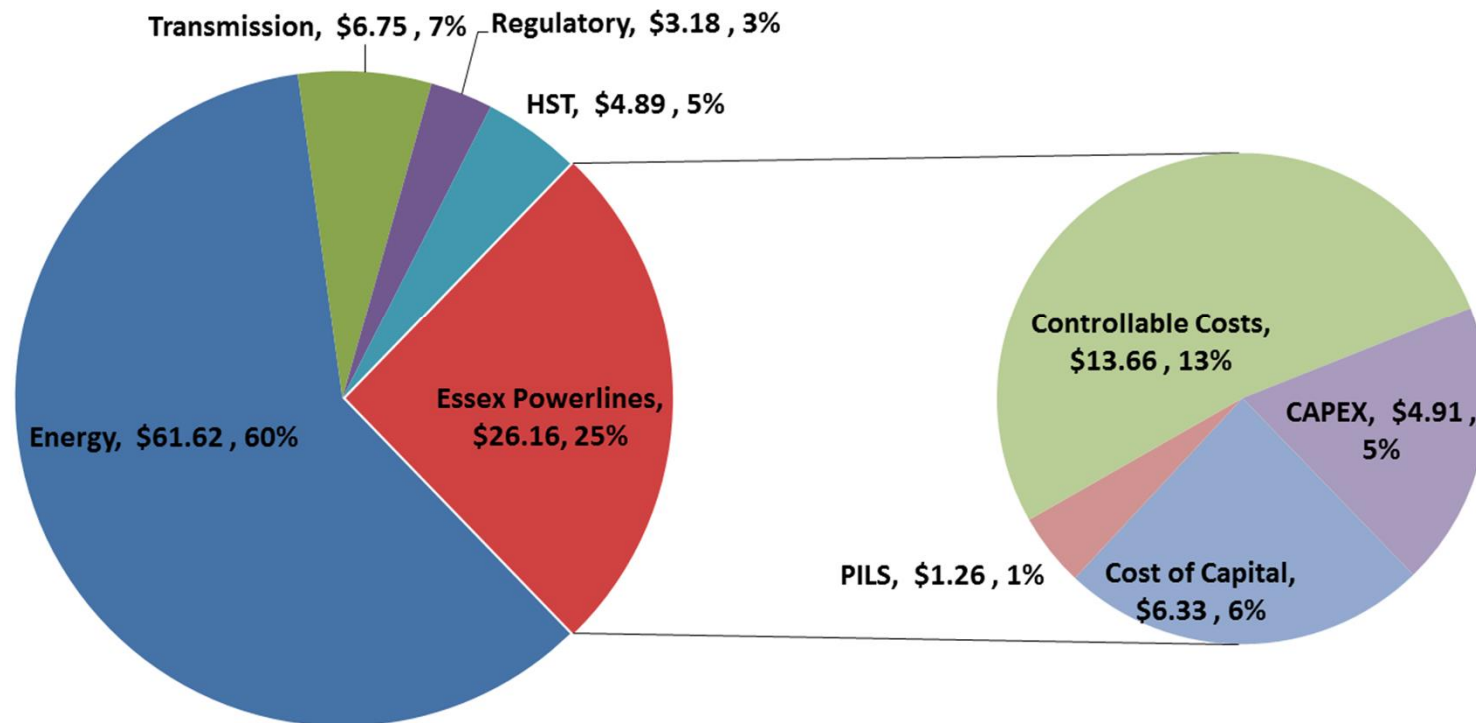


Energy Analysis Service Company

- Provides a variety of energy management services to participants in the Ontario market

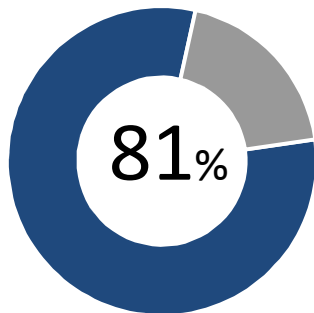
What Makes Up EPL's Portion of the Bill?

Essex Powerlines Corporation
Average Monthly Bill: Residential - 750 kWh

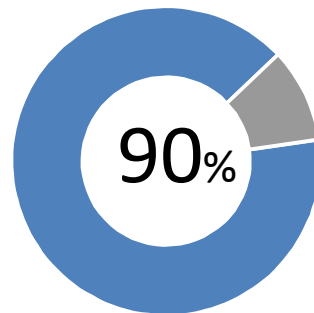


Customer Value: Perception of Overall Service

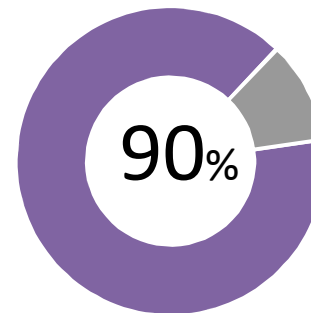
**Overall
Satisfaction**



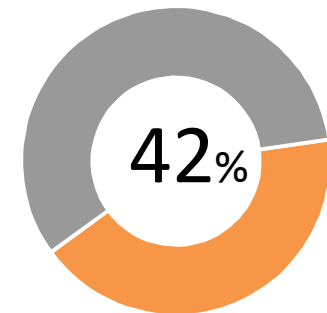
**Quality of Power
Service**



**Quality of
Customer Service**



**Affordability of
Service**



Source: Convergys Survey 2017

Operational Excellence: Single Voltage Utility

- “ EPLC has been working on converting its 4kV & 8kV systems for more than a decade;
- “ Results are a significant saving to EPLC customers;
- “ Affects the total bill and not just EPLC portion

Line Loss Category	2017 (Actual)	2018 (Proposed)	Variance
Secondary Metered Customer	1.0602	1.0355	-0.0247
Primary Metered Customer	1.0496	1.0251	-0.0245

Rate Class	Total Reduction	Reduction as % of Total Bill
Residential	\$ (0.86)	-0.68%
GS<50	\$ (2.25)	-0.70%
GS>50	\$ (31.84)	-0.51%
USL	\$ (0.55)	-0.42%
Sentinel Light	\$ (0.03)	-0.29%
Streetlight	\$ (0.03)	-0.29%



Operational Excellence: Best-In Class Solutions

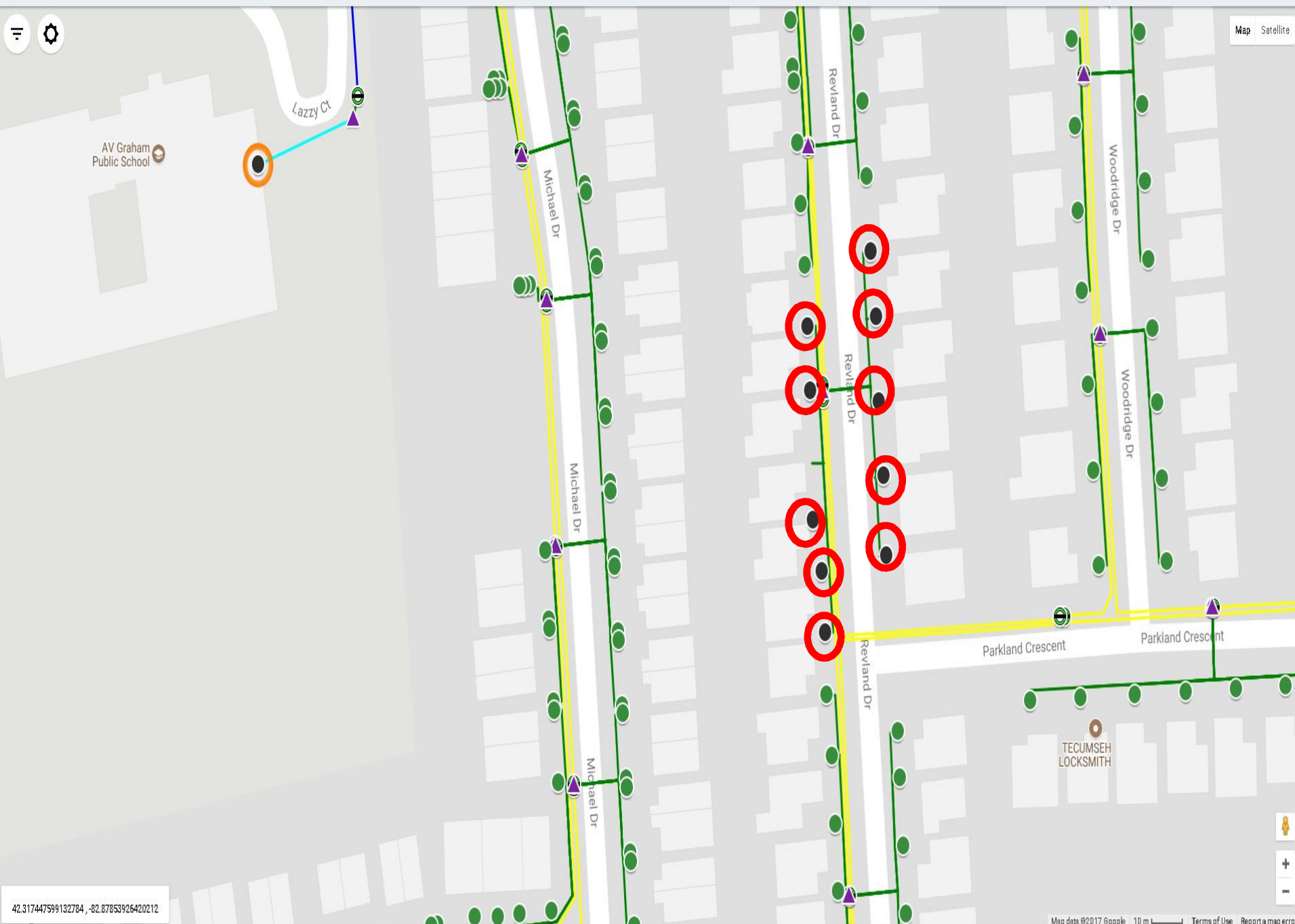
- “ EPLC strives to use Best-In Class solutions to provide cost effective value to its customers;
- “ One such example is SmartMAP

SMART MAP

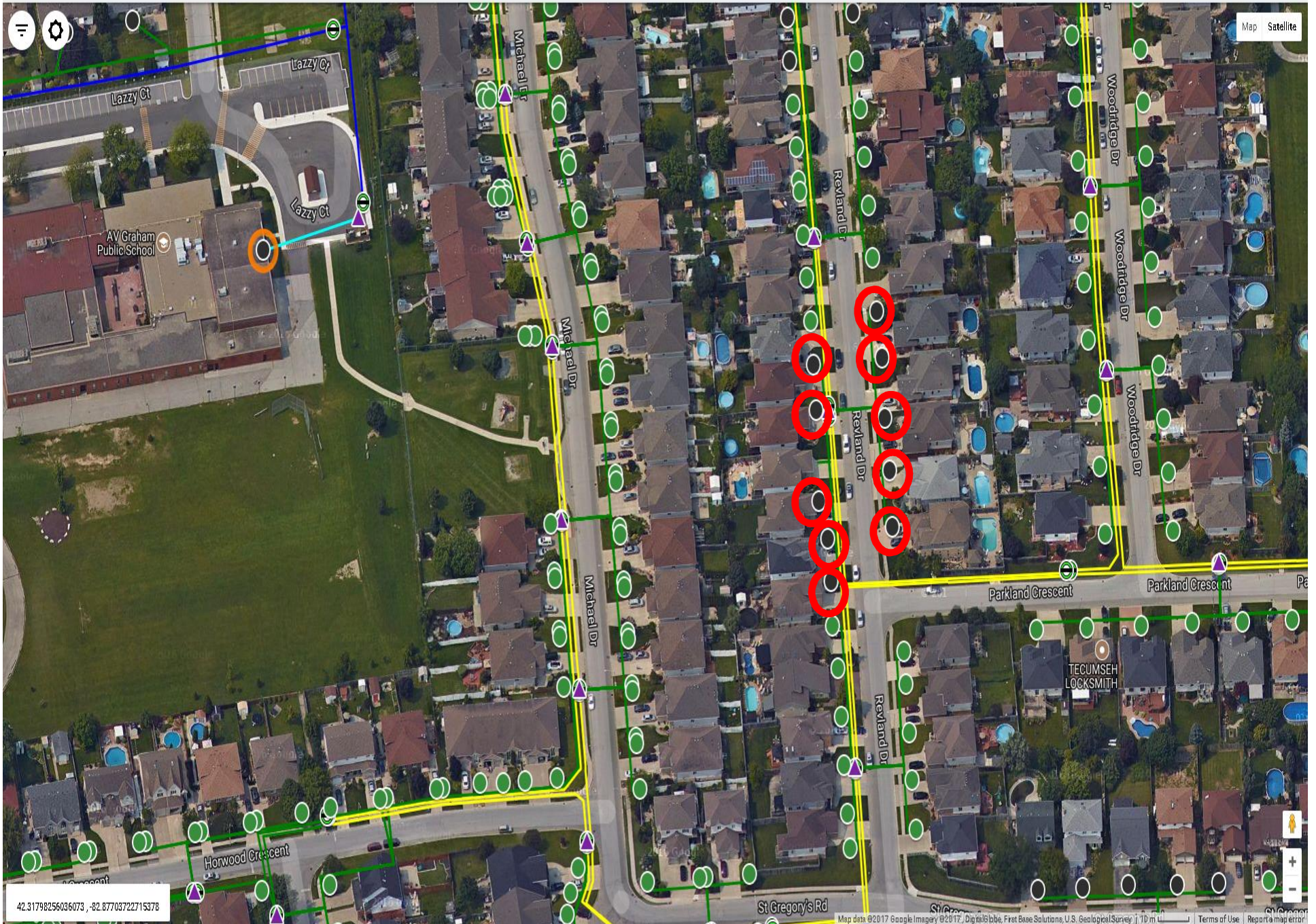




Map Satellite



42.317447599132784, -82.87853926420212



42.31798256036073, -82.87703722715378



Operational Excellence: Self-Healing Grid

- “ Over 75% of EPLC outages are Loss of Supply related;
- “ This means that outage root causes are outside of EPLC control;
- “ EPLC is installing Line Monitors, Reclosers & upgrading Wholesale Meters to reduce the impacts of Loss of Supply events;
- “ These devices will allow EPLC's Smart Grid to automatically attempt to resolve outages and isolate/minimize the impact of outages;



Operational Excellence: Cyber Security & Control Room Services

Cyber Security Compliance



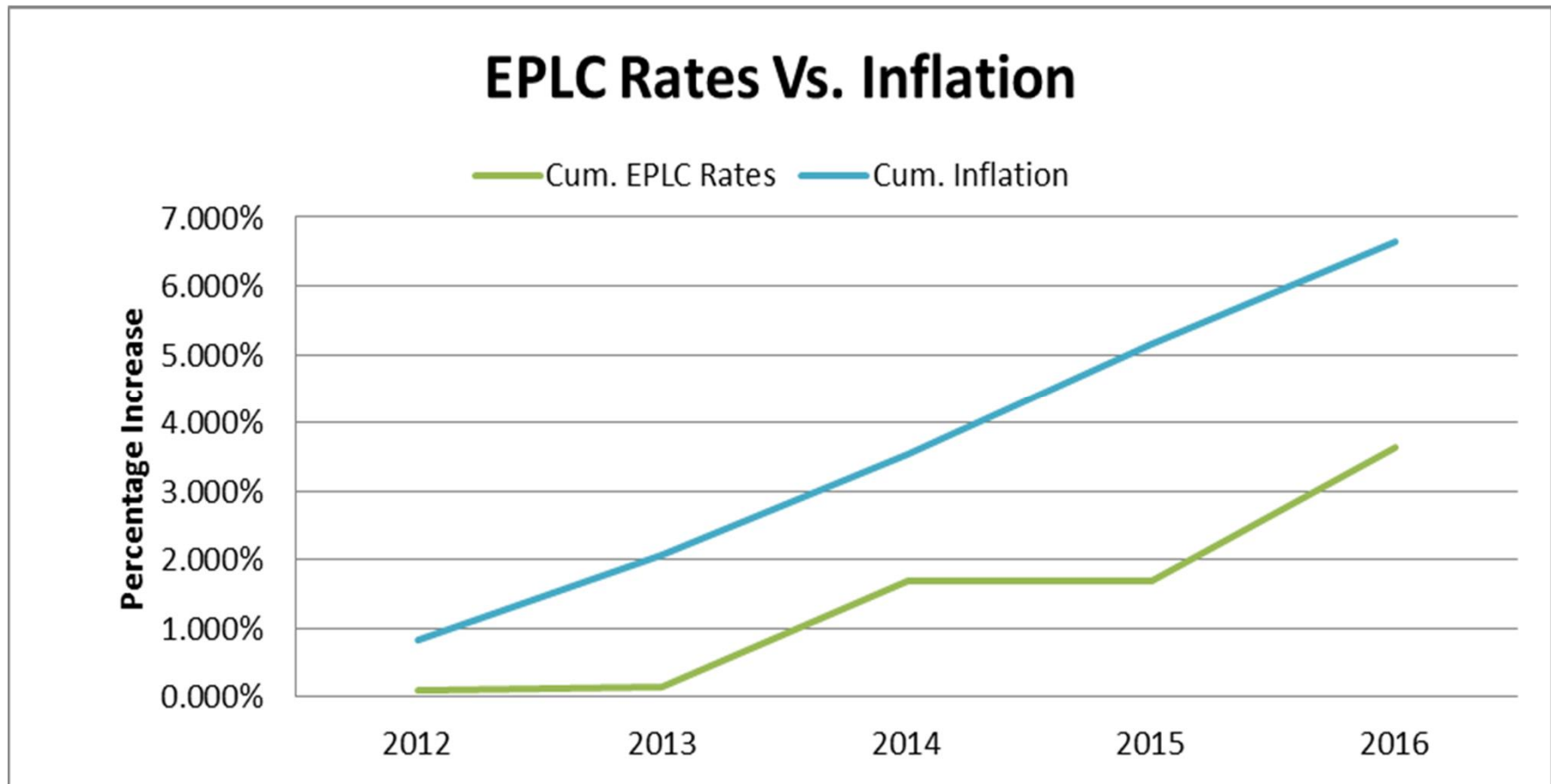
Customer Value: Data integrity

24/7 Control Room Services



Customer Value: Enhanced
24/7 customer service

Reasonable Rates: Distribution Rate Impacts –Historical



Reasonable Rates: Bill Impacts – By Customer Class

Distribution Rate Impacts

Rate Class	\$ Increase (Decrease)	% Increase (Decrease)
Residential	\$ 0.90	3.35%
General Service Less Than 50 kW	\$ 1.61	2.70%
General Service 50 to 4,999 kW	\$ 11.99	2.65%
Unmetered Scattered Load	\$ (1.60)	-5.30%
Sentinel Lighting	\$ (0.12)	-2.80%
Street Lighting	\$ 0.11	2.53%
Embedded Distributor	\$ (179.99)	-13.45%

Total Bill Impacts

Rate Class	\$ Increase (Decrease)	% Increase (Decrease)
Residential	\$ (0.51)	-0.40%
General Service Less Than 50 kW	\$ (2.14)	-0.66%
General Service 50 to 4,999 kW	\$ (390.64)	-5.92%
Unmetered Scattered Load	\$ (9.50)	-6.80%
Sentinel Lighting	\$ (0.39)	-3.81%
Street Lighting	\$ (0.11)	-1.07%
Embedded Distributor	\$ (342.63)	-0.68%

Reasonable Rates: OEB OM&A Provincial Ranking

Lowest Cost Per Customer

LDC Name	OM&A per Customer	Customer Count
Hydro Hawkesbury Inc.	\$ 182.91	5,531
Kitchener-Wilmot Hydro Inc.	\$ 186.10	94,058
Hydro One Brampton Networks Inc.	\$ 197.76	158,630
E.L.K. Energy Inc.	\$ 216.77	11,794
Newmarket-Tay Power Distribution Ltd.	\$ 218.43	35,465
Oshawa PUC Networks Inc.	\$ 220.83	56,811
Wasaga Distribution Inc.	\$ 228.90	13,346
Veridian Connections Inc.	\$ 229.61	119,533
Lakefront Utilities Inc.	\$ 231.50	10,214
London Hydro Inc.	\$ 233.81	155,496
Essex Powerlines Corporation	\$ 235.44	29,327
Waterloo North Hydro Inc.	\$ 236.41	56,230
North Bay Hydro Distribution Limited	\$ 241.69	24,070
Westario Power Inc.	\$ 249.61	23,168
PowerStream Inc.	\$ 251.71	364,505
Peterborough Distribution Incorporated	\$ 251.79	36,574
Horizon Utilities Corporation	\$ 252.61	244,114
Hydro Ottawa Limited	\$ 252.97	327,880
Entegrus Powerlines Inc.	\$ 257.89	40,833
Kingston Hydro Corporation	\$ 259.57	27,541

Highest Cost Per Customer

LDC Name	OM&A per Customer	Customer Count
Algoma Power Inc.	\$ 1,020.32	11,707
Atikokan Hydro Inc.	\$ 667.53	1,639
Chapleau Public Utilities Corporation	\$ 602.27	1,247
Sioux Lookout Hydro Inc.	\$ 549.11	2,790
West Coast Huron Energy Inc.	\$ 478.96	3,829
Wellington North Power Inc.	\$ 470.06	3,739
Fort Frances Power Corporation	\$ 467.12	3,746
Hydro One Networks Inc.	\$ 431.35	1,307,544
Espanola Regional Hydro Distribution Corporation	\$ 422.35	3,283
Northern Ontario Wires Inc.	\$ 417.52	6,007



Environmental Sustainability: Conservation & Demand Management



Essex Powerlines was one of 32 LDCs (out of 76) to accomplish their 2011-2014 targets;



Essex Powerlines is on pace to meet its conservation targets for the 2015-2020 framework;



Essex Powerlines on track to spend **\$8.4M** between 2015-2020 to help its customers conserve energy and lower their electricity bills;

Environmental Sustainability: Go Green, Plant a Tree Campaign

MyAccount

- New and improved online customer portal launched late 2017
- Customers can view and pay their bills anywhere, anytime from any device
- Track usage in real time
- Convenient and secure

Go Green, Plant a Tree

- January 29 – March 31, 2018
- 1 paperless customer = 1 tree planted in your community
- Tree planting events will be held at the end of April



Environmental Sustainability: Go Green, Plant a Tree Campaign

GREENER T  GETHER



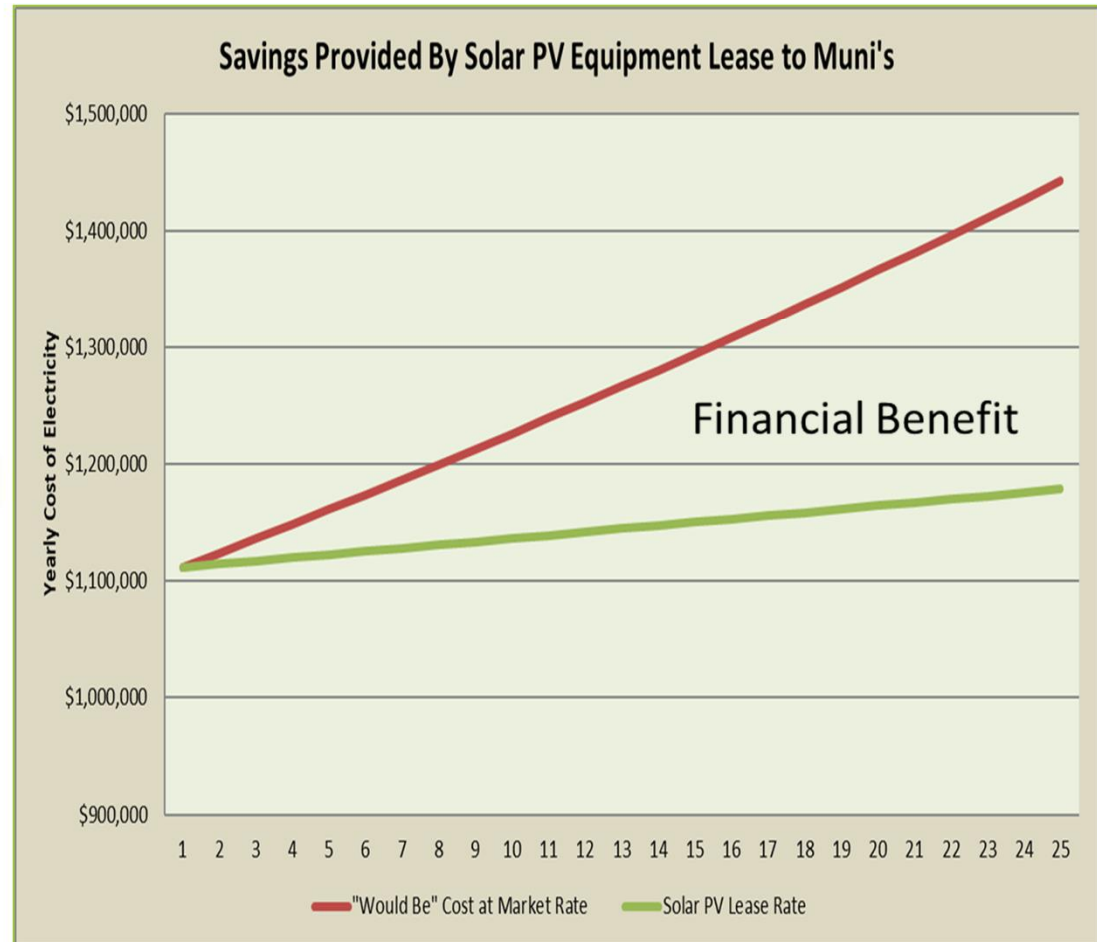
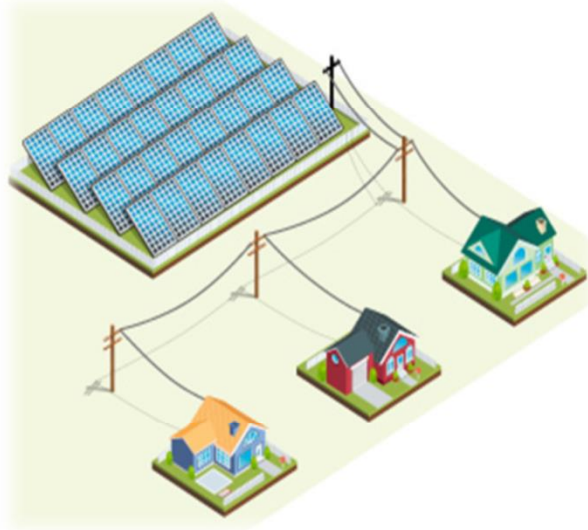
THANK YOU FOR A SUCCESSFUL GO GREEN, PLANT
A TREE CAMPAIGN! BECAUSE OF YOUR SUPPORT, A
TOTAL OF 1,000 TREES WILL BE PLANTED!

Environmental Sustainability: Municipal Sustainable Energy Cells (“MSEC”)



- 6MW Solar PV Capacity
- Brownfield Site
- Partners:
 - Essex Powerlines
 - Essex Energy
 - Municipality of Leamington
 - Town of Tecumseh
 - Town of LaSalle
 - Town of Amherstburg
- 25% of Muni Load Offset
- Electric Vehicle – Added Component

Virtual Net Metering – Financial Benefits

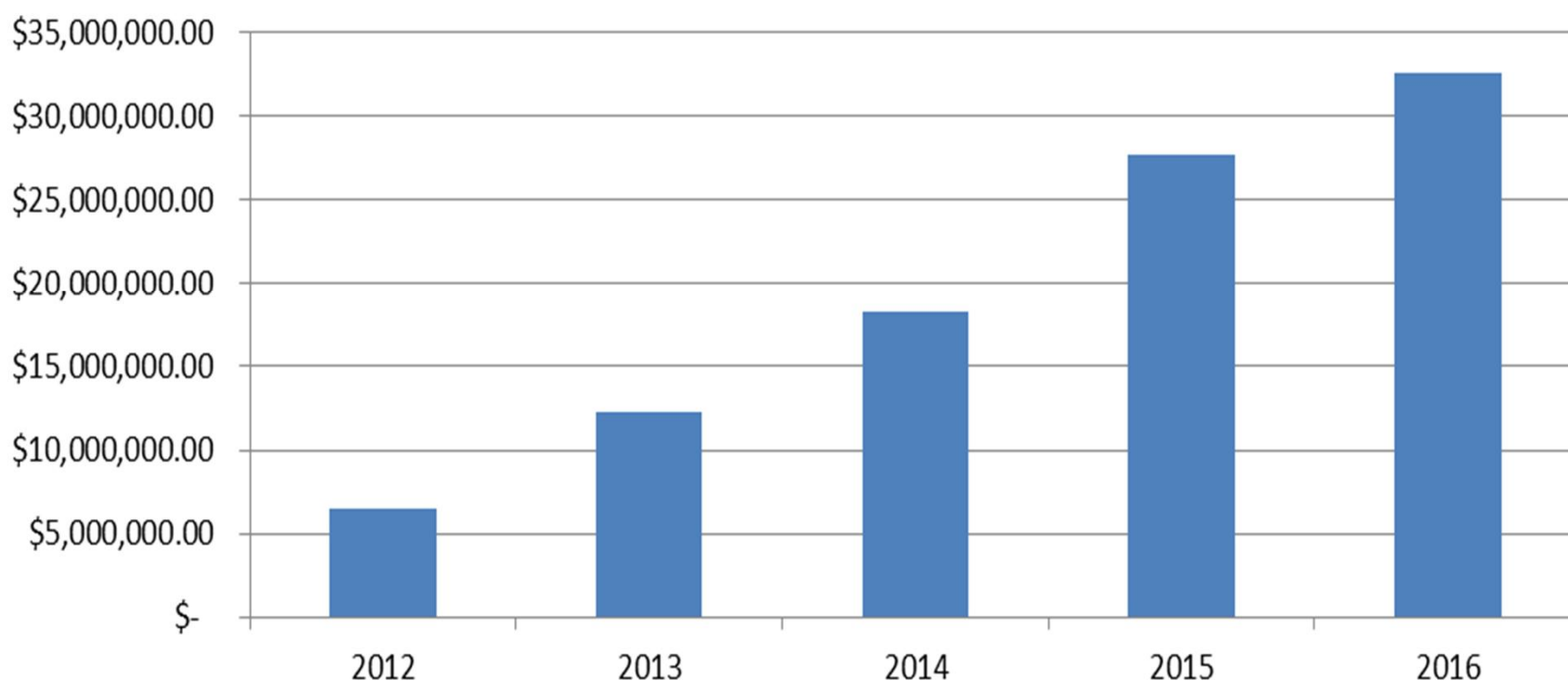


Virtual Net Metering – GHG Benefits

Municipality	Solar PV Annual kWh's Consumed	Resulting GHG Emissions Reduction (kg CO₂e)
Amherstburg	1,695,198	72,894
LaSalle	1,695,198	72,894
Leamington	1,695,198	72,894
Tecumseh	1,695,198	72,894
TOTAL	6,780,792	291,574

Financial Sustainability: Re-Investing In Our Infrastructure

Cumulative Capital Spend



Essex Powerlines Supporting Community Youth

Essex Power continues to donate **\$40,000** annually, divided equally amongst each municipality. **To date \$160,000** has been given to the youth initiatives throughout EPL's distribution area.

Some of the Youth events and organizations the fund helped are:

- Essex Power Energy Zone
- Amherstburg Wildcats Gymnastics Program
- Jingle Bell Rock Youth Dance
- Free Youth swims
- Free Youth skates
- The Essex Empowerment Corporation Girls Group



Essex Powerlines Your Community Partner



“ Essex Power and staff have donated over \$5000 yearly to each community that we proudly serve.



“ Essex Power has been a proud sponsor of our Community Festivals such as the annual Rib Fest, Strawberry Fest, Corn Fest, Harvest Fest and more



Thank You! Questions?

