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Cut Cost Fast with Smarter Compressed Air

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Agenda

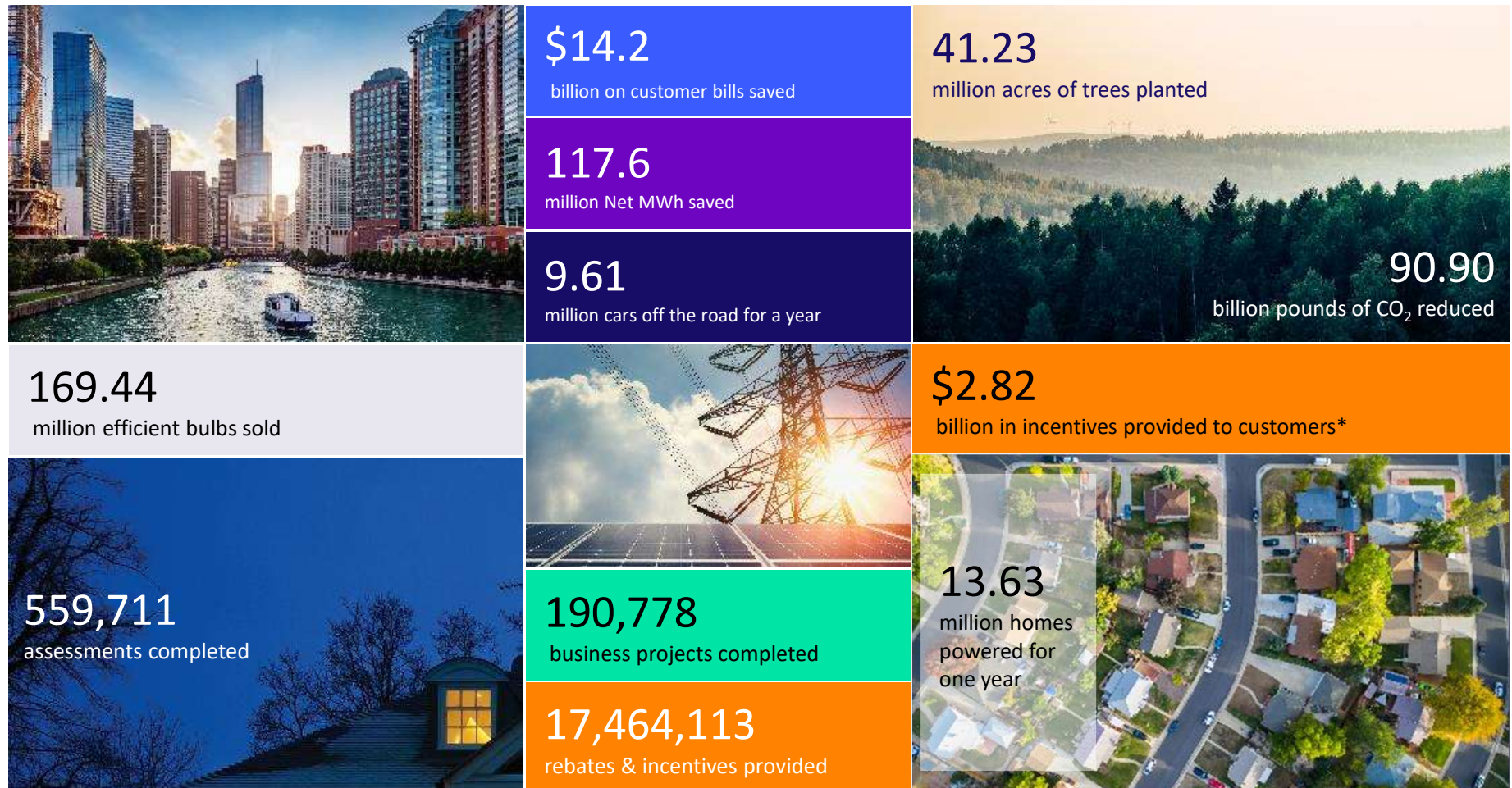
1. ComEd Energy Efficiency Program Overview
2. Sample System – baseline energy use and operating costs
3. Low-/No-cost ECMs available through Fix-it-now offering
4. Small capital upgrades
5. Comprehensive Studies

Overview of the ComEd Energy Efficiency Program

Bryan Murman-Freer; Industrial Outreach Service Provider

ABOUT THE COMED ENERGY EFFICIENCY PORTFOLIO

BY THE NUMBERS FROM 2008 TO Q2 2026



*Based on lifetime net MWh savings realized through CY2025. Incentives for the ongoing year is based on applied percentage of about 67%

Energy Efficiency is Funded by ComEd Customers

- ComEd customers fund the program with a charge on their monthly bill
- Monthly charge is based on a customer's kWh usage
- ComEd customers have saved over \$13 billion in energy costs since 2008
- Over 85 billion pounds of carbon emissions reduced



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TAXES, FEES & OTHER CREDITS \$86.61

Environmental Cost Recovery Adj	4,055 kWh X 0.00010	\$0.41
Renewable Portfolio Standard	4,055 kWh X 0.00502	\$20.36
Coal to Solar and Energy Storage Fund	4,055 kWh X 0.00007	\$0.28
Zero Emission Standard	4,055 kWh X 0.00189	\$7.66
Carbon-Free Energy Resource Adj	4,055 kWh X -0.00276	-\$11.10
Energy Efficiency Programs	4,055 kWh X 0.00835	\$33.86
Energy Transition Assistance	4,055 kWh X 0.00072	\$2.92
Franchise Cost	\$43.03 X 0.008366	\$0.36
State Tax		\$13.16
Municipal Tax		\$18.79
Service Period Total		\$318.32

Rates will vary based on customer demand category and monthly kWh usage. Customers should ask their Account Manager or Energy Efficiency point of contact for their specific cost estimates.

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ComEd Energy Efficiency Program - How Can We Help?



Facility Assessments

- Find areas of opportunity to reduce energy use
- It's FREE!
- Whole facilities
- Virtual walk-thru option
- Fleet Electrification Assessments
- Public Schools Carbon-Free Assessment



Incentives

- Financial benefit to help reduce the cost of your project
- Customer covers project costs, then receives incentive to help offset those costs (may authorize payment to service provider)
- Often, the more energy you save, the more you earn in incentives



Instant Discounts

Point-of-sale discounts on:

- Lighting
- HVAC
- High efficiency fork truck battery chargers
- Lithium-ion electric fork trucks



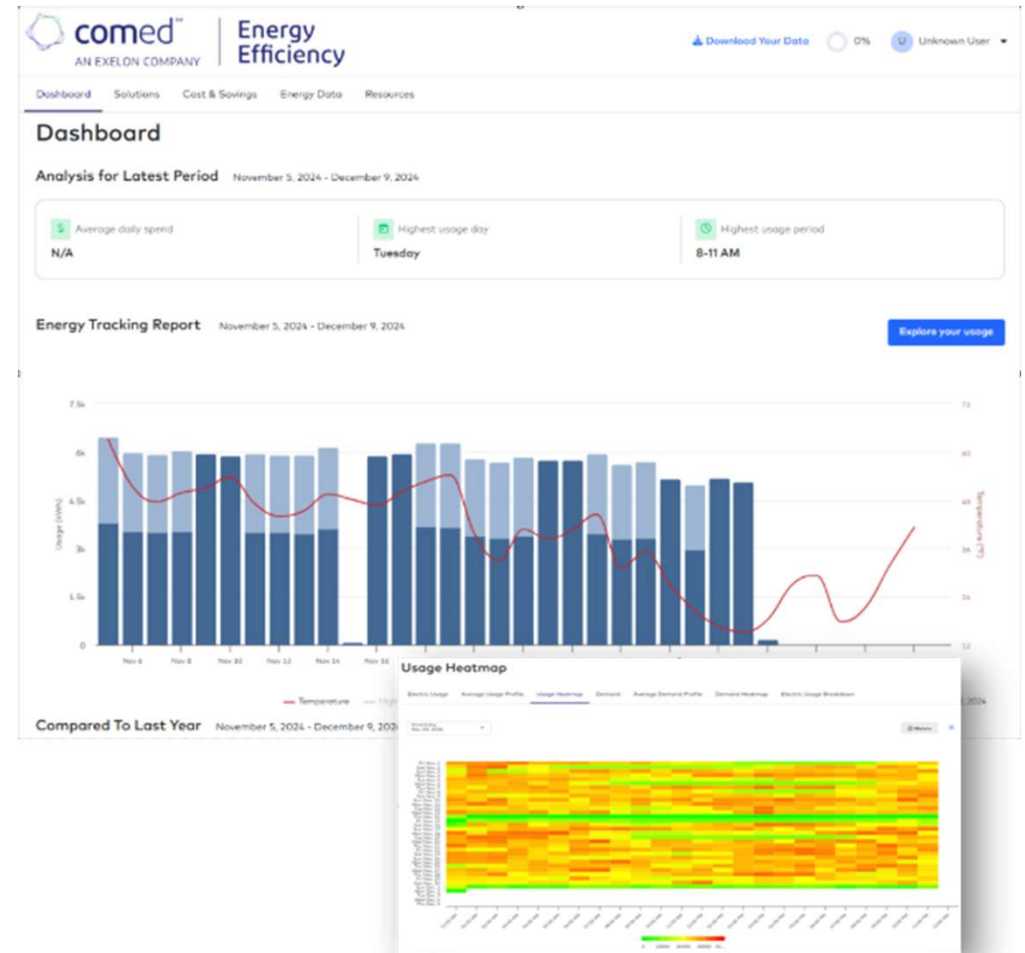
Optimization

- Whole-building retro-commissioning
- Rooftop HVAC units
- Refrigeration and cooling
- Compressed air
- Strategic Energy Management (SEM)

Business Energy Analyzer

Business Energy Analyzer (BEA) is designed to help reduce energy and increase your business' bottom line. It offers powerful analytics to help you save energy and cut costs.

- Track your energy usage in 30-minute increments
- Compare year-over-year energy usage to see shifts in use over time
- Analyze off-hours usage and make adjustments
- Ability to download your data
- Sign up at ComEd.com/BEA using your 10-digit account number
- *Customers can also invite external users to access their BEA page if they wish to share their data*



Facility Assessments

Facility Assessments (FAs) identify energy-savings opportunities along with their simple payback on investment

- Assessment benefits (for facilities > 500 kW peak demand):
 - FREE to customers
 - Performed by an authorized energy engineer
 - Provides detailed report with estimated energy savings
 - Identifies capital energy efficiency opportunities as well as low-cost / no-cost operational measures
 - Report serves as helpful road map for planning energy-saving projects

Small businesses and public facilities with < 500 kW peak demand can receive an assessment through the Small Business Offering.

Customers can request FAs online at: ComEd.com/FacilityAssessment

Facility Assessment

Prepared for

Example Project (123 Main Street)

EXECUTIVE SUMMARY

Financial Benefit

We estimate your Facility has the potential for:

	Annual Savings	\$72,410
ComEd® Energy Efficiency Program Incentive		\$178,460

Annual Energy Benefit

Before		Up to 23% Energy Savings
After		Up to 794,900 kWh Reduced

Annual Environmental Benefit

Can Reduce Your Carbon Footprint by up to...

433 Metric Tons of CO₂ Equivalent
or 107 Cars off the Road Annually

Standard Offering

Standard Offering Provides Incentives on a Per-Unit or Per-Fixture Basis

- All projects over \$10,000 require a reservation
- Customers have the option to use an approved Energy Efficiency Service Provider (recommended), self-install, or work with an outside contractor
- All commercial/industrial customers are eligible to participate except for 10MW opt-outs

Measure Categories include:

- Networked Indoor/Outdoor Lighting Controls
- HVAC, including Variable Speed Drives
- Energy Management Systems
- Injection Molding Machines, and more!



- View incentives and link to the Standard application at ComEd.com/Standard
- Apply for incentives and track projects online at ComEd.com/StandardOnlineApp
- View worksheets and factsheets at ComEd.com/Resources

Custom Offering

The Custom offering provides incentives with a defined scope and timeline that can't be addressed by other offerings, including retrofits, replacements, upgrades and more.

Measure categories include everything that is non-standard:

- Specialty/New Construction Lighting
- VFD motors > 500 Hp
- HVAC Upgrades
- Process Improvements
- IT Equipment Upgrades, and more

Flexible incentives based on verified cost-effective savings that can cover up to 100% of project cost.

To learn more, visit ComEd.com/Custom

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Industrial Systems Offering

- The Industrial Systems offering offers a no-cost, comprehensive assessment of your facility's operational equipment, including refrigeration, compressed air, process cooling, water, and wastewater systems.
- Comprehensive study and Fix-It-Now options for capital projects and operational/maintenance measures
 - Up to 100% of project costs can be incentivized
- Customer receives a fully-funded study of their industrial equipment
 - Study Report includes energy conservation measures, estimated savings, incentives, & payback
 - Incentive Rate: **\$0.18/kWh**
- Highly qualified network of [Energy Efficiency Service Providers](#) (EESPs)

To learn more, visit ComEd.com/IndustrialStudy and ComEd.com/CompressedAir



**Chiller
Systems**



**Compressed
Air**



**Industrial
Refrigeration**



**Water
Treatment**



**Process
Efficiency**

Compressed Air – Fix-It-Now



Compressed air leak repairs at your facilities– ***at no cost to you!***



Fast, high-impact energy savings and dollars that can drop to your bottom-line



Improved systems performance & reliability



Annual eligibility for on-going improvement



Elevated understanding of your facilities' air systems

- See [Link](#) for more information

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Sample System – baseline energy use and operating costs

Compressed Air Systems

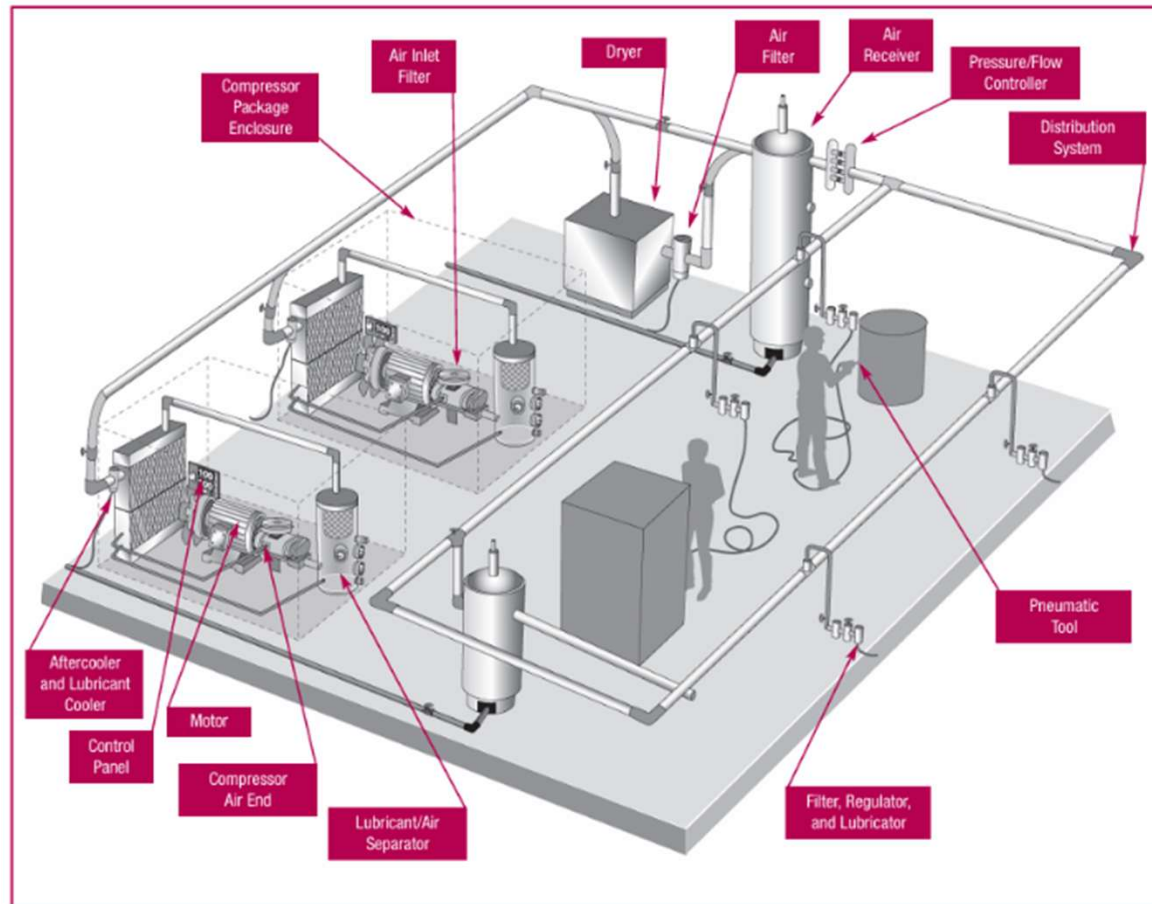


Figure 1.1 Components of a Typical Industrial Compressed Air System.

Sample System

Compressor	1	2
Make/Model	Quincy QGV-200	Atlas-Copco GA160-8.6
Trim/Baseload	Trim	Baseload
Annual Operating Hours	8,000	8,000
Nameplate Power (HP)	200	214
Nameplate Capacity (CFM)	1028	1000
Full Load Input Power (kW)	194	174
Pressure Setpoint (psig)	115	115
Control Type	VFD	Load/No-Load
Average Loading:	65%	95%
Average CFM:	668	950

Sample System

	Compressor 1	Compressor 2	Total
Annual Energy kWh/yr	1,003,000	1,315,000	2,318,000
Annual Electric Cost \$/yr	\$100,300	\$131,500	\$231,800

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Low-/No-cost ECMs available through Fix-it-now offering

Leak Repair

Leaks Repaired	30
Total Leak Volume	163 cfm
Annual Electric Savings	232,500 kWh/yr
Annual Cost Savings	\$23,250



Reduce Pressure

- Screw compressors use about 1% less power / 2 psi pressure reduction.
- In the sample system, if we reduce the pressure setpoint from 115 psig to 105 psig:



Annual Electric Savings	Annual Cost Savings	Incentive
61,200 kWh/yr	\$6,120	\$500

No Loss Drains



- Timer controlled condensate drains are not self adjusting and bleed compressed air out of the system.
- In the sample system, replacing 5 timer-controlled drains with no loss drains:

Annual Electric Savings	Annual Cost Savings	Cost	Incentive	Payback
7,300 kWh/yr	\$730	\$2,500	\$1,250	1.7

Low Pressure Drop Filters

- Baseline: standard coalescing filter with a pressure drop of 3 psid when new and 5 psid or more at element change.
- Upgrade: low pressure drop filter with pressure drop not exceeding 1 psid when new and 3 psid at element change.
- In the sample system, replacing 3 standard coalescing filters with 3 low pressure drop filters:



Annual Electric Savings	Annual Cost Savings	Cost	Incentive	Payback
23,500 kWh/yr	\$2,350	\$9,000	\$8,292	0.3

High Efficiency Air Nozzles



- Simple tubing or open piping is sometimes used for open blowing. Engineered nozzles can often provide the same force with less compressed air consumption.
- In the sample system, installing 5 high efficiency nozzles:

Annual Electric Savings	Annual Cost Savings	Cost	Incentive	Payback
10,400 kWh/yr	\$1,040	\$875	\$375	0.5

No-/Low-Cost ECM Summary

ECM	Annual Electric Savings (kWh/yr)	Annual Cost Savings (\$/yr)	Measure Cost (\$)	Estimated Incentive (\$)	Simple Payback (years)
Leak Repair	232,500	\$23,250	\$0	n/a	n/a
Reduce Pressure	61,200	\$6,120	\$0	\$500	n/a
No-loss Drains	7,300	\$730	\$2,500	\$1,250	1.7
Low Pressure Drop Filters	23,500	\$2,350	\$9,000	\$8,292	0.3
High Efficiency Nozzles	10,400	\$1,040	\$875	\$375	0.5
Total	334,900	\$33,490	\$12,375	\$10,417	0.05

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Small capital upgrades

New VSD Air Compressor

Incentive = \$220 / hp

Requirements:

- New compressor must be 200 hp or less and must be an active compressor
- Existing compressed air system must not currently have a VSD compressor (or equivalent)
- Only one new VSD per system is eligible
- Comprehensive study available if project doesn't fit these requirements – pre-approval required!



Efficient Refrigerated Air Dryers

Incentives

- Thermal Mass Dryer = \$1 / cfm
- Digital Scroll Dryer = \$2 / cfm
- Variable Speed Refrigerated Dryer = \$3 / cfm

Requirements:

- Baseline: A standard non-cycling refrigerated compressed air dryer
- Upgrade: Cycling thermal mass dryer, digital scroll dryer, or variable speed refrigerated dryer of comparable capacity to baseline.



Efficient Desiccant Air Dryers

Incentive = \$4 / cfm

Requirements:

- Baseline: A heatless regenerative desiccant dryer without dew point controls
- Upgrade: A heated or blower-purge desiccant dryer, not installed on an inlet modulation compressor

Heated and blower-purge desiccant dryers use less compressed air to regenerate, reducing compressed air demand and energy use:

Desiccant Dryer Type	Compressed air use (% dryer rated flow)
Heatless	15-20%
Heated	5-10%
Blower-purge	2%



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Comprehensive Studies

Comprehensive Studies

- ✓ In-depth analysis by Service Provider to identify and engineer the solution needed by the customer in a program track*
- ✓ Service Provider is paid by ComEd to develop and manage project—investigation, data logging, analysis, etc.
- ✓ Customer receives incentives to help with implementation
(\$0.18/kWh = \$180k per 1,000,000 kWh saved)
- ✓ Service Provider can perform entire project (including installation)

* Program tracks are: Compressed Air, Industrial Refrigeration, WWTP, Process Cooling, Process Efficiency

Questions?



ComEd Resources



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- Visit us online at [ComEd.com/BusinessSavings](https://www.comed.com/BusinessSavings) or send us an email at BusinessEE@ComEd.com
- Contractors Authorized to Perform Outreach on Behalf of the ComEd Energy Efficiency Program
[ComEd.com/Outreach](https://www.comed.com/Outreach)
- Request a FREE Facility Assessment [ComEd.com/FacilityAssessment](https://www.comed.com/FacilityAssessment)
- Get Started With Business Energy Analyzer, a Free Online Tool to Help You Manage Energy Use
[ComEd.com/BEA](https://www.comed.com/BEA)
- Enroll in ComEd's Energy Usage Data System
[ComEd.com/EnergyUsageData](https://www.comed.com/EnergyUsageData)
- Earn Financial Rewards for Reducing Electricity Use During Peak Usage Periods
[Enroll In Smart Returns Voluntary Load Reduction \(VLR\) Program](#)

Not Sure Where to Start? Give Us a Call
855.433.2700

Thank you!

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