

GRAND RAPIDS 2030 DISTRICT

CANNABIS WEBINAR SERIES

SMART BUSINESS: MANAGE YOUR ELECTRIC USE IN ALIGNMENT WITH COMMUNITY GOALS

Gillian Giem | Grand Rapids 2030 District Bill Wadsworth | Consumers Energy Mike Troupos | Foresight





Moderator/Speaker: Gillian Giem, Program Manager, Grand Rapids 2030 District

Speakers:

Bill Wadsworth, Economic Development Manager, Consumers Energy

Mike Troupos, Managing Director, Foresight

GRAND RAPIDS

2030

DISTRICT®





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THE GRAND RAPIDS 2030 DISTRICT

The Grand Rapids 2030 District is public-private partnership that is committed to creating high performing buildings and smart mobility options that:

• Drawdown carbon in Grand Rapids' built environment

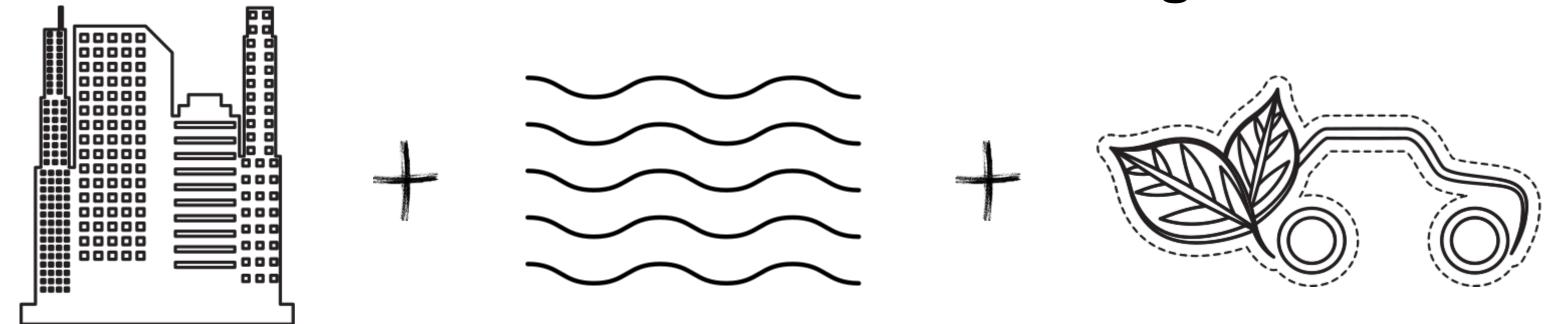
• Increase marketability and profitability for property owners

• Strengthen the greater community's vibrancy



ACHIEVING DISTRICT-WIDE GOALS

2030 Districts commit to reducing:



Building Energy Use

Water Consumption

Transportation GHG Emissions

50% by 2030

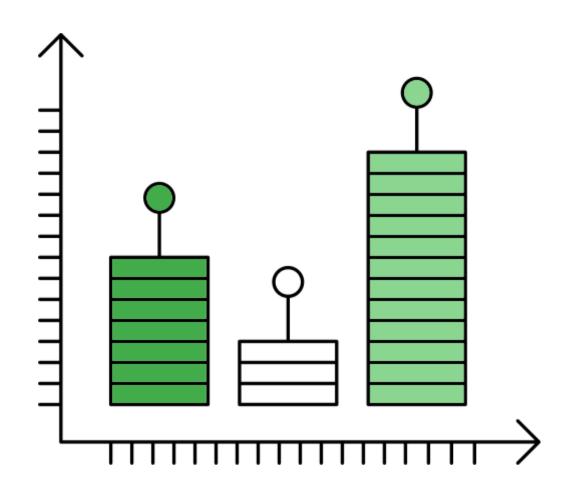






BENCHMARKING = GREAT FOR YOUR BUSINESS MODEL

- "You can't manage what you don't measure"
- Keeps a pulse on the systems for O&M
- Tracks the effects of projects down the road





ENERGY STAR PORTFOLIO MANAGER



We Can Help!

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THANK YOU!

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Consumers Energy & Cannabis Grow Facilities

Bill Wadsworth July 28, 2020



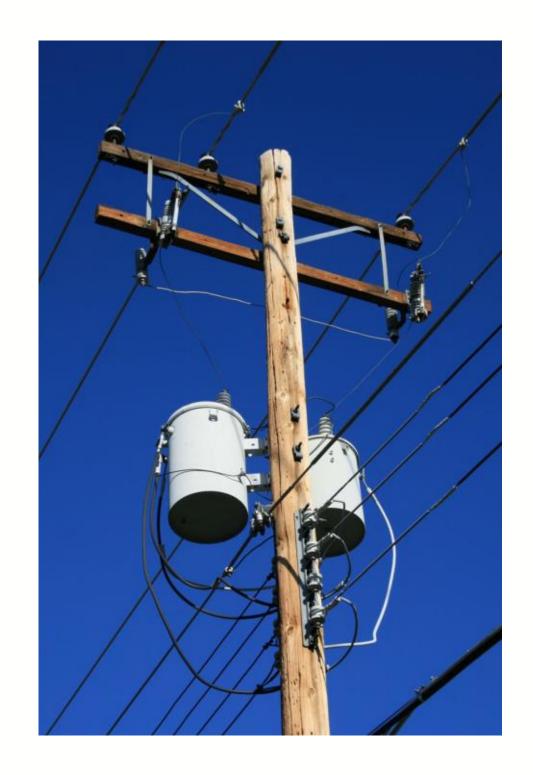
An Energy Intensive Industry



- Reuse of former factory and big box buildings
- Aggressive customer service timelines
- Evolving energy needs
- Location, energy infrastructure and physics matters
- Don't assume that power is available
- Phased approach for future growth

Serving New Grow Operations

- Electric infrastructure has limits and upgrades may be required
- Acquiring new high voltage service can take time
- Available new construction and energy efficiency incentives
- Execution of energy contracts may be required
- Status of state and local approvals
- Satisfactory credit review may be required
- Alternative energy solutions during buildout, such as generators



Summary

- Contact us early
- Start a new notification by calling our Business Center. 1-800-805-0490
- Timely and accurate energy loads are needed.
- Utilize the Consumers Energy Energy Efficiency Program
- Here to help

Optimizing Electricity for Growing Operations



July 28, 2020



Outline:



- 1. About Foresight Management
- 2. Electricity Big Picture
- 3. Components of Electricity Charges
- 4. Types of Electric Rates Consumers Energy
- 5. Savings Recommendations
- 6. Questions





Foresight Management

Our Mission:

Champion Energy Management
Accelerate Sustainability
Increase Profitability

Who We Are:

Outsourced Energy & Sustainability Managers

Who We Serve:

Commercial, Industrial, and Institutional Facility Operators

Outline

Foresight Management

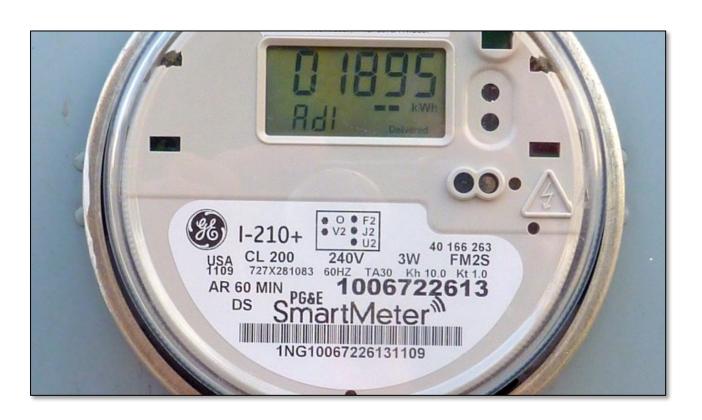
Electricity – Big Picture Components of Electricity
Charges

Types of Consumers Electricity Rates Savings Recommendations



Old Meters vs. New Meters





Outline

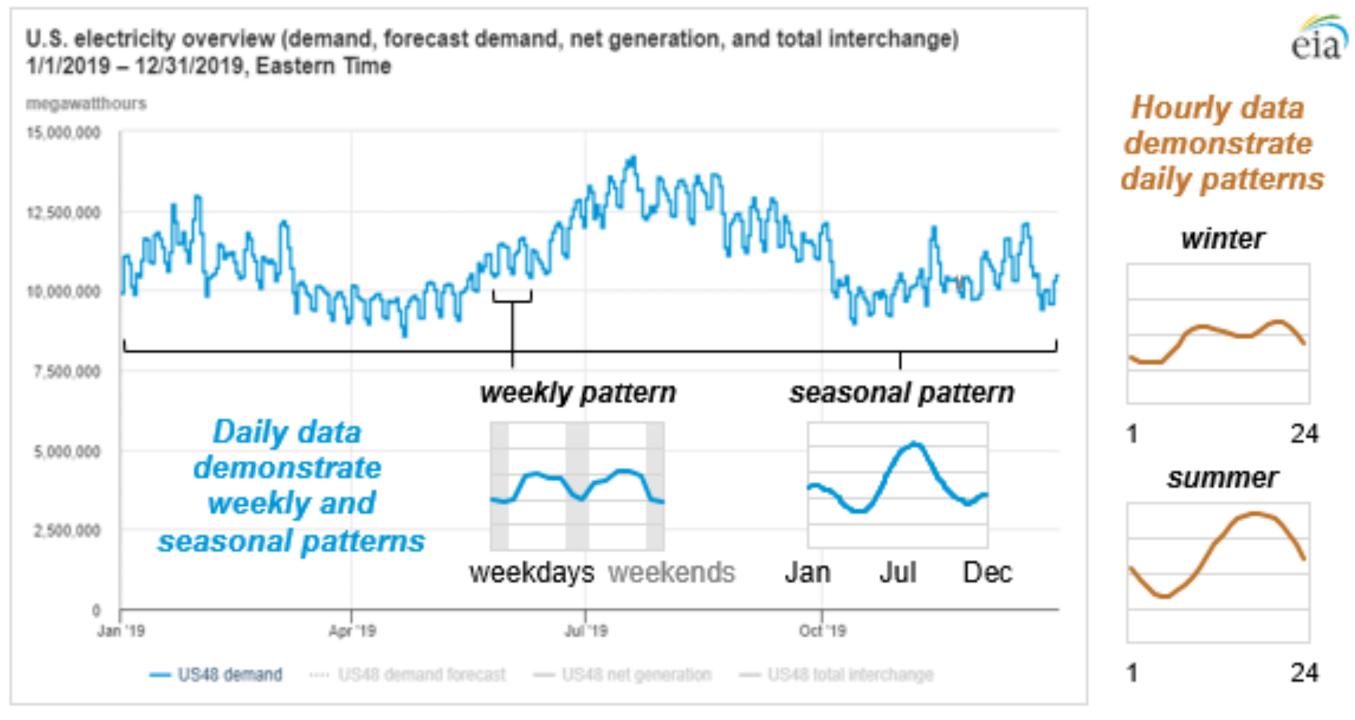
Foresight Management

Electricity – Big Picture Components of Electricity
Charges

Types of Consumers Electricity Rates Savings Recommendations



National Electricity Data



Outline

Foresight Management Electricity – Big Picture Components of Electricity
Charges

Types of Consumers Electricity Rates Savings Recommendations



Components of Electricity Charges

1. Consumption Charges (kWh)

How much electricity you consumed at your facility.

2. Demand Charges (kW)

- The maximum power draw at your facility.
- Measured over a 15-minute interval in Consumers Energy territory.
- Billed on the peak for the month and even the year on some rates.

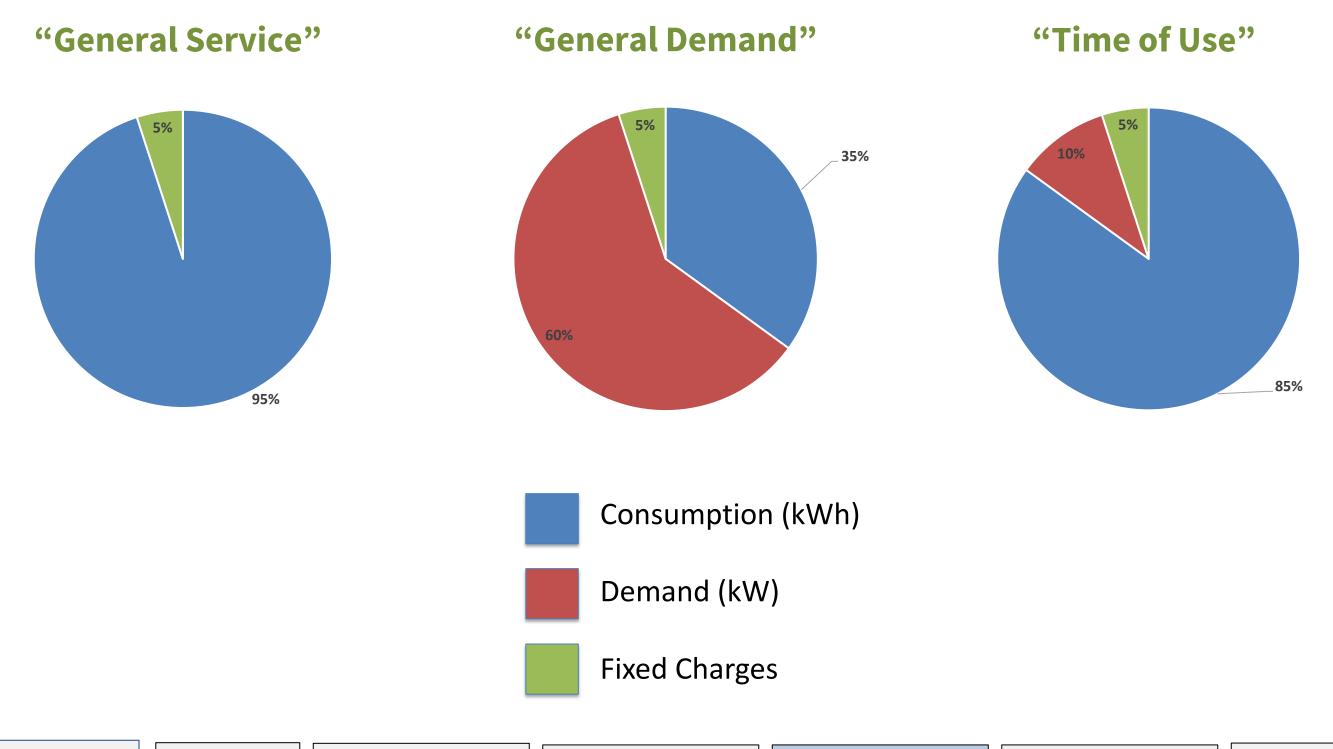
3. Fixed Charge

- Not based on consumption or demand.
- Do not vary month to month.
- Includes services like customer service, meter readings, low income assistance, etc.

Outline



Types of Electric Rates – Consumers Energy



Outline

Foresight Management Electricity – Big Picture Components of Electricity Charges

Types of Consumers Electricity Rates Savings Recommendations



Types of Electric Rates – Consumers Energy

General Service

- Flat cost for electricity, pricing does change from summer to non-summer months.
- Average blended rate: \$0.14-0.20/kWh.
- Common rate for churches, schools, small users, etc.

General Demand

- Low consumption (kWh) charges
- Monthly and Annual Max Demand Charges
- Average blended rate: \$0.07-0.16/kWh.
- Common for 24/7 operations
- Best rate for consistent users

Time of Use

- Electricity cost varies widely depending on the time of day and season.
- Winter and Summer, On-Peak and Off-Peaks (7 different rates total)
- Average blended rate: \$0.09 \$0.15/kWh
- Common for facilities that have lower consumption in the summer/afternoon (Colleges, movie theaters, etc).
- Consumers indicates this is the most common rate for cannabis grow facilities to be on.

Outline Foresight Management

Electricity – Big Picture Components of Electricity
Charges

Types of Consumers Electricity Rates Savings Recommendations



How to save green and be more green

Demand Rates

- Keep usage as consistent as possible!
 - **Scheduling** If you have 12 hour grow cycles, don't run all for 12 hours. Instead, run half the operation at the opposite time as the other half
 - Interval Data Analysis Determine when you are generally setting peak demands and change flexible schedules to be off at that time

Time of Use Rates

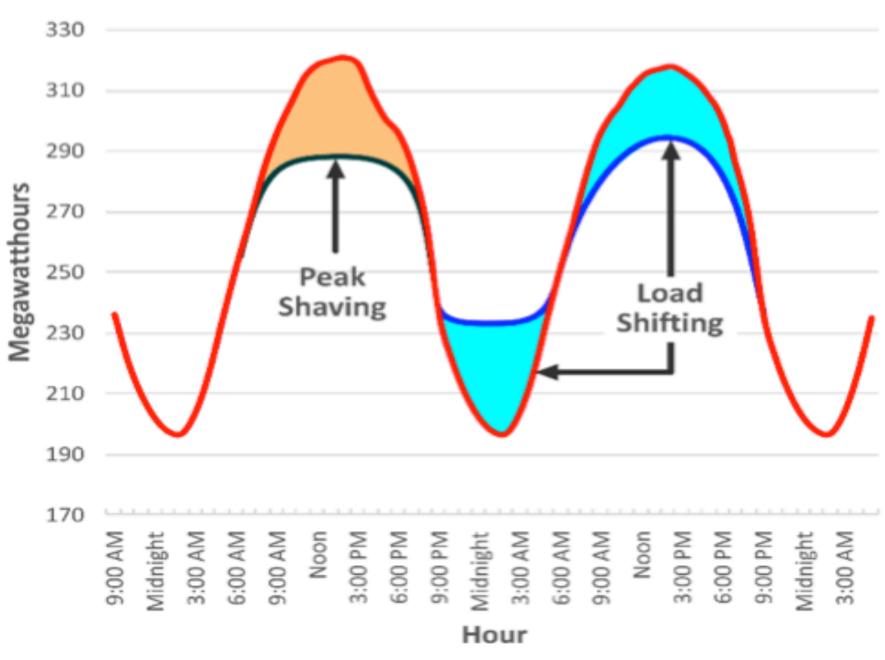
- SHIFT Move as much use to nights and weekends as possible!
 - If you have 12 hour grow cycles, run **ALL** from 11PM to 11AM
 - Avoid using electricity from 2PM to 6PM (June-Sept) at all costs as that is the most expensive time
 - Weekends are 100% off-peak. Can you shift any electricity usage to the weekends?
 - Interval Data Analysis Breakdown of when you use electricity

Outline



Visualize Your Savings





Outline

Foresight Management Electricity – Big Picture Components of Electricity
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Types of Consumers Electricity Rates Savings Recommendations



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NEXT WEBINAR

A LOOK UNDER THE HOOD:
WHAT ENERGY MODELING & AUDITING CAN DO
FOR YOUR BUILDING OPERATIONS

Please fill out our 2 minute survey at the end of this webinar. Thank you!

Thank you to our Visionary Supporters!







