INTRODUCTIONS

Moderator/Speaker:
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Grand Rapids 2030 District

Speakers:
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Consumers Energy
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GRAND RAPIDS 2030 DISTRICT

REACHING FOR ZERO CARBON BY 2050
THE GRAND RAPIDS 2030 DISTRICT

The Grand Rapids 2030 District is a 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
WE EMPOWER BUILDING OWNERS TO HARNESs THEIR CARBON FOOTPRINT IN A WAY WHICH MAKES THEIR BUSINESS PROSPER
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!
THANK YOU!

Gillian Giem
Program Manager
Grand Rapids 2030 District

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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
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
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
Old Meters vs. New Meters
National Electricity Data

Daily data demonstrate weekly and seasonal patterns

Outline
- Foresight Management
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- Components of Electricity Charges
- Types of Consumers Electricity Rates
- Savings Recommendations
- Questions
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.
Types of Electric Rates – Consumers Energy

“General Service”
- Consumption (kWh): 95%
- Demand (kW): 5%
- Fixed Charges: 5%

“General Demand”
- Consumption (kWh): 60%
- Demand (kW): 35%
- Fixed Charges: 5%

“Time of Use”
- Consumption (kWh): 85%
- Demand (kW): 10%
- Fixed Charges: 5%

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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.**
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
Visualize Your Savings
GRAND RAPIDS 2030 DISTRICT
CANNABIS WEBINAR SERIES

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!