

FOCUS ON YOUR WASTEWATER ELECTRIC BILL

Your monthly electric bill is a valuable tool that provides information about your facility's energy consumption. It is important to understand the statement to determine when and how much energy is being used. Contact your electric provider account representative for more information and to review your daily, weekly, and monthly electric use patterns. The knowledge you'll gain will allow you to evaluate your operating procedures to identify whether operational adjustments would reduce your use and costs and provide a strategy to include in your energy management plan.

Below is a sample electric bill for a small wastewater treatment facility. This sample provides information and data to help understand the standard terms and definitions below. The demand charge (kW) represents 30%-40% of the total monthly bill. This is often an area that can be reduced to provide substantial savings.

Sample Electric Bill

- 1. Bill Period:** The time frame energy usage was incurred.
- 2. Billing Days:** Number of calendar days during the billing period.
- 3. Rate Class:** Indication for on/off peak time period and more.
- 4. On-Peak Maximum Demand:** Maximum demand during on-peak hours for the billing period.
- 5. Maximum Measured Demand:** Demand at any time during billing period both on-peak and off-peak.
- 6. On-Peak Energy:** All energy (kWh) used during peak hours.
- 7. Off-Peak Energy:** All energy (kWh) used outside of peak hours.
- 8. Customer Charge:** Monthly flat fee for administration, meter reading, billing, etc.
- 9. Distribution Demand (Customer Demand):** Maximum demand during last 12 months both on-peak and off-peak.
- 10. Distribution Demand Charge:** Charge for maximum demand during last 12 months.

Bill Date	Account Number	Next Meter Read Date	Amount Due	Payment Due Date
12/28/2020	0401273070-00040	01/26/2021	\$4,132.33	01/15/2021
Customer Name City of ABC				
Service Address Sewer 319 Wastewater Lane XYZ, WI 00000				
Activity Since Last Bill				
11/24/2020	Previous Balance		\$3,955.73	
12/16/2020	Payment		-\$3,955.73	
	Balance		\$0.00	
	Total Current Charges		\$4,132.33	
	Total Current Balance		\$4,132.33	
Electric Service				
Elec Sm Coml & Ind TOU Secondary Cg-20				
Meter 6005995				
	Actual Reading 12/28/2020	4322		
	Actual Reading 11/24/2020	-3778		
		544		
	Meter Constant	x 120		
	Total Electric Use	65280	KWH	
	Actual Reading 12/28/2020	1331		
	Actual Reading 11/24/2020	-1197		
		134		
	Meter Constant	x 120		
	On Peak	16080	KWH	
	Off Peak	49200	KWH	
Energy Charges/Credits				
	Daily Fixed Charge	34 Days at \$3.05750		\$103.96
Demand Charges/Credits				
	Customer Demand	01/29/2020 13:15; 182 kW at \$1.98800		\$361.82
	On-Peak System Demand	06/06/2019 00:00; 120 kW at \$9.65400		\$1,158.48
	Off-Peak	123 kW at \$0		\$0.00
Energy Charges/Credits				
	On-Peak	16,080 KWH at \$0.06096		\$980.24
	Off-Peak	49,200 KWH at \$0.03650		\$1,795.80
Other Service Charges/Credits				
	2017 Tax Cut-Deferred Tax Credit			-\$52.88
	Earnings Sharing Credit	65,280 KWH at -\$0.00081		-\$251.98
	WI Low Income Assistance Fee			\$36.89
	Subtotal:			\$4,132.33
	Electric Service Total:			\$4,132.33

Account Summary
1 Bill Period: 11/24/2020 to 12/27/2020

	Dec 2020	Nov 2020	Dec 2019
Billing Days	34	32	32
Avg Temp	27°F	38°F	23°F
Heating Deg Days	1289	878	1332
Cooling Deg Days	0	0	0
% Warmer	3		
KWH Used	65280	59160	61800
Avg KWH / Day	1920	1848.8	1931.2

Usage by Month
Bar chart showing KWH usage by month from Dec to Dec.

Charges by Month
Bar chart showing charges by month from Dec to Dec.

- 11. Billed Demand Charge:** Charge for on-peak maximum demand during the billing period.
- 12. On-Peak kWh Energy Use Charge:** Charge for energy used during peak hours.
- 13. Off-Peak kWh Energy Use Charge:** Charge for energy used during off-peak hours.
- 14. Community Assistance:** A Wisconsin state-mandated fixed fee.



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The Bill Comes Due

Your electric bill may contain separate charges for energy consumption (kWh) and demand (kW). The rate at which energy consumption is billed at (\$/kWh) depends on when the energy was consumed, on-peak or off-peak, which is then multiplied by the total kWh used during the billing period. Electric demand (kW) is billed at a rate (\$/kW) depending on the time of consumption, on-peak or off-peak, which is multiplied by your facility's peak demand during the billing period. Typically, electric utilities base demand charges on daytime peak demand. Daytime or on-peak is generally 12- hour weekdays (for example, 8 a.m. to 8 p.m.). Utility generation and distribution systems are heavily loaded during on-peak use hours. Additional charges you'll notice on your bill include facility costs, taxes, and fuel cost adjustments. These charges are generally related to overall electricity consumption, not your facility's demand charge. The higher your facility's electrical consumption and electric demand, the higher your utility bill.

Taking Action

Understanding your facility's electric use can help you better manage your energy consumption and take steps to reduce these costs.

Potential energy- and cost-saving steps may include:

- Assess the time of your on-peak demand to determine the causes of this peak use and identify ways to reduce it. Consider possible strategies to shift equipment operations into remove off-peak periods.
- Set controls to stagger equipment operation. For instance, two pumps that need to operate only one hour per day should be controlled, so do not work at the same time.
- Develop a comprehensive energy and cost reduction plan and share it with your operators.
- Benchmark your energy use and evaluate trends over time.

Benefits of Understanding Your Bill:

- 1. Reduce Expenses:** Electric costs represent a large but manageable portion of your yearly budget.
- 2. Use the Savings on Other Projects:** When your utility bill shows reduced electricity usage and cost, you may be able to use those savings to fund other facility needs.
- 3. Manage Rising Energy Costs:** Electricity costs will increase in the years ahead; become proactive and manage these costs now.

For help understanding your electric bill or for other energy efficiency improvement needs, contact us:

888.623.2146

business@focusonenergy.com

REDUCING ENERGY WASTE ACROSS WISCONSIN

Focus on Energy, Wisconsin utilities' statewide program for energy efficiency and renewable energy, helps eligible residents and businesses save energy and money while protecting the environment. Focus on Energy information, resources, and financial incentives help to implement energy efficiency and renewable energy projects that otherwise would not be completed.

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