

Electrical rates

In most skating and curling rinks, the largest single operating cost is the monthly utility bills. Knowing how you are charged will help you identify potential energy savings, which will help you save money.

Terminology

The following are some of the key terms used to describe the electrical energy billed to your facility:

Kilowatt-hours (kWh) Electrical energy consumption is measured in kilowatt-hours. For example, a 2-kilowatt appliance operating for five hours consumes 10 kWh of electrical energy.

Kilovolt-ampere (kVA) Electrical demand is measured in kilovolt-amperes. It is voltage, multiplied by current, divided by 1,000. In most facilities and applications, the total power measured in kilowatts is the same or close to the kVA demand (when the power factor equals 1, then kVA=kW).

Basic Monthly Charge The basic monthly charge is the fixed monthly amount that is charged for each service. It covers the cost of billing, meter reading and account administration.

Billing Multiplier A billing multiplier is applied to your bill when there is a difference between the units the meter uses to measure electricity consumption and the actual electricity consumed. For example, if a billing multiplier is 180, the meter would record only one kilowatt-hour for every 180 kilowatt-hours consumed.

Cost of Electricity The amount charged for total energy consumption each billing period.

First Block rate The amount charged for the first block of energy consumption for each billing period.

Balance (or runoff) rate The amount charged for the last block of energy consumption for each billing period.

Demand Charge The amount charged for the peak amount of power supplied during each billing period measured in kVA.

Municipal Surcharge Saskpower collects on behalf of urban municipalities a 5 or 10 per cent surcharge amount that is applied to the total electrical charges.

Goods and Services Tax SaskPower collects and remits the Goods and Service Tax (GST) to Canada Revenue Agency. The GST applies to the total of Electrical Charges.

General service rates

Effective February 1, 2007 there are two rate structures for Saskatchewan urban and rural skating and curling rinks – the Standard General Service and the Small General Service rates.

The Small General Service rate is for facilities with a monthly electrical demand not exceeding 75 kVA. The Standard General Service rate is for all accounts that do not qualify for the Small General Service rate.

For information on the current rate structure for your facilities, please contact SaskPower at: 1-888-SKPOWER (757-6937).

SaskPower electrical rates as of February 1, 2007

Monthly Basic Charge:	<u>Urban</u>	<u>Rural</u>
Small General Service	\$ 18.92 (E75)	\$ 27.45 (E76)
Standard General Service	\$ 33.92 (E05)	\$ 41.80 (E06)
Plus		
Energy Charge:		
Small General Service rate		
First 14,500 kWh @	8.57¢/kWh	First 13,250 kWh@9.17¢/kWh
Balance of kWh @	5.153¢/kWh	Balance of kWh@5.109¢/kWh
Standard General Service rate		
First 16,750 kWh @	8.31¢/kWh	First 15,500@8.56¢/kWh
Balance of kWh @	5.139¢/kWh	Balance of kWh@5.133¢/kWh
Plus		
Demand Charge:		
Small General Service rate		
First 50 kVA of monthly recorded demand @	No charge	No charge
Balance @	\$10.38/kVA	\$ 10.95/kVA
Standard General Service rate		
First 50 kVA of monthly recorded demand @	No charge	No charge
Balance @	\$10.71/kVA	\$ 11.08/kVA

Electrical consumption

Electrical consumption is calculated by subtracting the previous meter reading from the present meter reading and multiplying the result by the billing multiplier. The result is the actual number of kWh consumed for the billing period.

Demand

The demand portion of the bill is just as important as the consumption portion. For some arenas, demand charges can be as much, if not more, than consumption charges.

Demand is read and reset every month so there are no previous and present readings to subtract, just the actual demand reading for the billing period.

For most meters, demand is read in volt-amperes (VA) and converted to kilovolt-amperes (kVA) by dividing the reading by 1,000. The resulting value is then multiplied by the billing multiplier to get the final demand reading.

The municipal surcharge is collected by SaskPower and returned to the community. A city can ask SaskPower to collect a 10 per cent surcharge, while smaller communities can impose a 5 per cent surcharge.

Calculating your electricity bill

All examples in the manual are based on the Standard General Service rate - E05. While this rate applies to most arenas and curling rinks, those facilities where the electrical service demand does not exceed 75 kVA will be invoiced on the Small General Service rate.

Electrical bills are not just for the accountant. As a facility operator, you should also see the bills so that you can keep track of energy and demand use in the arena and spot any unusual variations if or when they occur.

Check saskpower.com for current electrical rates. If you require further information please call 1-888-SKPOWER (1-888-757-6937).

Example 1.0 - Calculating your total electricity bill

Assumptions:

- Consume 25,000 kWh in any given billing period (about 30 days)
- Draw 80 kVA of electrical demand
- Run a facility that falls in the Standard General Service (E05) rate

Your monthly cost for electricity would be:

		\$	33.92
Basic monthly charge			
First - 16,750 kWh x \$0.0831	\$		1,391.92
Balance - 8,250 kWh x \$0.05139	\$		<u>423.97</u>
		\$	<u>1,815.89</u>
Total energy charge		\$	1,849.81
Total demand charge:			
80kVA - 50 kVA = 30 kVA x \$10.71 =		\$	<u>321.30</u>
Total energy plus demand change		\$	2,171.11
			(plus taxes and municipal surcharge where applicable)

Please note: Your minimum monthly bill is the Basic Charge plus \$3.00/kVA of the maximum recorded demand over 50 kVA, registered during the past 11 months.

Example 1.1 - Calculating your total charges for an ice plant

If you need to start an ice plant that requires 100kVA, the electro-mechanical demand meter gradually registers that load. In this example the demand meter will reach 50 kVA after 4 1/2 minutes and 99 kVA in 30 minutes. If you run your compressor for only 30 minutes you will be charged almost all (99 per cent) of the full demand charge contributed by the refrigeration system for the billing period. In this case, the compressor demand charge would be:

Compressor demand charge

1st 50 kVA:	50 kVA @ \$0.00/kVA	\$	0.00
Balance:	49 kVA @ \$10.71/kVA	\$	<u>524.79</u>
Total demand charge:	99 kVA	\$	524.79

Energy charge

Assume we base the charge on the Standard General Service rate with an estimated power factor of 0.90 (100 kVA x 0.90 = 90 kW). The kWh consumption charge for running the ice plant for half an hour would be as follows:

$$90 \text{ kW for } 0.5 \text{ hours} = 45 \text{ kWh}$$

The kWh consumption charge is: $45 \text{ kWh} \times \$0.05139/\text{kWh} = \2.31

Please note: The consumption charge is based on the balance (or runoff) rate and assumes that enough other equipment was operating in the building to use the first 16,750 kWh of energy during this billing period and at this time only the ice plant is operating.

Example 1.2 - Calculating your total charges

In Example 1.0, when you consumed 25,000 kWh of energy, the kWh consumption charge was \$1,815.89. If your maximum demand for that billing period increased to 125 kVA, then the demand charges would be calculated as follows:

Demand and consumption charges

1st 50 kVA:	50 kVA @ \$0.00/kVA	\$	0.00
Balance:	75 kVA @ \$10.71/kVA	\$	<u>803.25</u>
Total demand charges:	125 kVA	\$	803.25

Please note: An increase in demand would also result in an increase in consumption for the same operating time, however, for display purposes the values in Example 1.0 are used.

Total charges before taxes

Basis monthly charge:	\$	33.92
Consumption charges:	\$	1,815.89
Demand charge:	\$	<u>803.25</u>
Total charges:	\$	2,653.06

(plus taxes and municipal surcharge where applicable)

Saving money at season start-up and shutdown

Knowing when your meter is scheduled to be read may save you the demand charge for an entire month.

Most Saskatchewan rinks have only one meter which is not disconnected during the summer months. As an example, if you start your ice plant on September 15th, and your meter is read on September 17th, you will be charged the full demand charge for the billing period ending September 17th, even though you only used the ice plant for two days.

If you waited until after the meter was read on September 17, then started the ice plant, you would save one full month of demand charges contributed by the ice plant.

Your local SaskPower District Office can provide you with an approximate date for when your meter will be read.

Example 1.3 - Start-up and shutdown of the compressor

At the start of the season, if the lighting, heating and other electrical loads in the building totaled 50 kVA and you were operating a 60 hp ice plant (where 1 hp is approximately equal to 1 kVA), you could save about \$580 in demand charges plus taxes by waiting two days to start the compressor.

The same is true at the end of the season. If the meter will be read on April 17, try shutting the ice making equipment off on April 16. If the plant runs until April 19, you would be charged the full demand charge in the next billing period for only running the plant for an extra couple of days.

Shutting off the plant on April 16 could save you \$580 in demand charges.

Disconnection

At the end of each season, SaskPower will (upon request) disconnect the electric service to the ice plant, if it has a separate power service. You will receive no minimum monthly bill, which may result in significant savings during the summer months. There is no charge for disconnecting any service, but the reconnect fee (\$155 plus GST taxes in 2007) will be charged at the start of the next season and must be taken into consideration when making operating decisions.

Example 1.4 - Disconnect of the demand meter

Assume that the ice plant operates from November through March each year, and the community asks to have the service disconnected each March and reconnected in November. It is connected for five months and disconnected for seven months each year.

The amount saved is the basic monthly charge, plus \$3.00/kVA for the maximum recorded demand above 50 kVA for the preceding 11 months. If we assume a peak demand of 125 kVA occurred during the previous 11 months, then the minimum bill for each summer month is:

Basis monthly charge:	\$	33.92
(125 kVA – 50 kVA) x \$3.00:	\$	<u>225.00</u>
Total charges:	\$	258.92

Annually, the saving would be:

7 months @ \$258.92:	\$	1,812.44
Reconnect fee:	\$	<u>-155.00</u>
Potential saving:	\$	1,657.44

In this example, disconnecting the service for 7 months would save \$1,657.44 plus applicable surcharge and taxes each year based on 2007 rates. Your SaskPower Region Business Manager will assist you in calculating a potential saving for disconnecting the ice plant service each year.

Understanding your SaskPower bill

Being able to understand your electrical demand bill is just as important as being able to read your demand meter.

- 1) Customer name
- 2) Customer account number
- 3) Service address
- 4) Type of service
- 5) SaskPower phone number
- 6) Power interruption toll free number
- 7) Bill cycle
- 8) Previous billing and balance forward information
- 9) Present meter reading and date
- 10) Previous meter reading and date
- 11) Billing multiplier
- 12) Consumption (kWh)
- 13) Registered demand
- 14) Basic monthly charge
- 15) Consumption charge
- 16) Demand charge
- 17) Municipal surcharge
- 18) Monthly GST assessed
- 19) Total taxes and surcharge
- 20) Total amount due

SaskPower

2025 Victoria Avenue,
Regina, Saskatchewan
S4P 0S1

Name:
ANYWHERE ARENA

Account number:
00 1234 56789 01234

Service address:
123 MAIN ST

Customer reference:

Type of service:
GENERAL SERVICE

Customer service & billing inquiries:
1-888-757-6937 (1-888-SKPOWER)
Payment arrangements 1-877-597-5990

Power trouble & outage reporting:
310-2220
No charge 7-dgt 24-hour number

Important messages:
Visit our booth at the March 15 - 18 Saskatchewan Homestyles 2007 show, and the March 30 - April 1 Regina Spring Home & Garden Show. Enter to win a power-saving prize package.

Bill Cycle: 10

GST registration number: R119429678

3303 M03C00 E05

ANYWHERE ARENA
123 MAIN ST
ANYWHERE SK

After payment, keep this portion for your records

Bill issued Mar 15, 2007

Balance from previous bill 1193.10
Payment received Feb 28, 2007 - Thank you -1193.10

Balance Forward .00 ... 50.00

Electricity billed for

Mar 09, 2007 actual meter reading 05961
Feb 07, 2007 actual meter reading 05807

Billing multiplier 174
x 60

Electricity billed for - 30 days 10440 kWh

Mar 09, 2007 demand meter reading 1.540
Billing multiplier x 60

Registered demand 92 KV.A

Electrical charges

Basic monthly charge \$33.92 33.92
Cost of electricity 10440 kWh x \$.08310/kWh 857.56 15
Demand charge 92 KV.A: 16
First 50 KV.A x \$.0000 KV.A/month .00
Balance 42 KV.A x \$10.7100 KV.A/month 449.02 16

Total electrical charges 1351.30 ... 1351.30

Surcharge and taxes

Municipal surcharge-ANYWHERE-\$1351.30 x 5% 67.57 17
GST \$1351.30 x 6% 81.08 18

Total surcharge and taxes 148.65 ... 148.65

Late Payment Charge Assessed on Amounts Unpaid as of Apr 12, 2007
At The Rate of 1.50% Monthly (19.5% per year)

Payment due upon receipt of bill

Total Due **\$1,499.95** 20

See reverse side for terms of payment and payment options

00 1234 56789 01234 0001499950000000000001499950

Payment Information

Before this portion with your payment			
SaskPower Account Number	00 1234 56789 01234		
Balance forward	\$.00	Cheque <input type="checkbox"/>	Debit <input type="checkbox"/>
Current	\$1499.95	Cash <input type="checkbox"/>	Other <input type="checkbox"/>
Total due	\$1499.95	Amount paid	

Please enter the amount paid in the area provided

Natural gas rates

Your SaskEnergy natural gas bill will display the following charges. The total cost of a monthly natural gas bill is determined by adding the charges for each of these components:

Basic Monthly Charge. This is the fixed costs of your service line, natural gas meter, and customer account administration.

Gas Delivery Service Charge. The charge (in cents per cubic metre) to transport and deliver your natural gas through the gas distribution system.

Gas Consumption Charge. The charge (in cents per cubic metre) to acquire your natural gas. If you purchase natural gas from a supplier other than SaskEnergy, the supplier's name and phone number are identified on the bill.

Municipal Payments. 3 or 5 per cent of the total gas charges collected in accordance with *The SaskEnergy Act* and remitted to your local municipal governments.

Goods and Services Tax. SaskEnergy collects and remits the Goods and Service Tax (GST) to Canada Revenue Agency. The GST applies to the total of Gas Charges and Municipal Payments, if applicable.

SaskEnergy natural gas rates

Effective June 1, 2007, the following proposed natural gas rates will apply to rinks and arenas.

Small General Service (GSII)

Basic Monthly Charge	\$ 20.65	} Rate G02 - 0 to 100,000 cubic meters per year.
Delivery charge (\$/m ³)	\$ 0.0631	
Consumption charge (\$/m ³)	\$ 0.2683	

Large General Service (GSIII)

Basic Monthly Charge	\$ 43.50	} Rate G03 - 100,001 cubic meters to 660,000 cubic meters per year.
Delivery charge (\$/m ³)	\$ 0.0551	
Gas consumption charge (\$/m ³)	\$ 0.2683	

Calculating your natural gas consumption

To measure natural gas usage over a specific period of time, subtract the previous reading from the present reading.

SaskEnergy meters register natural gas in hundreds of cubic feet. A metric factor and billing multiplier (indicated on your bill) is used to convert the hundreds of cubic feet to cubic metres in order to calculate your natural gas consumption.

The metric factor is determined by the atmospheric pressure and the elevation for the given location.

The SaskEnergy website at www.saskenergy.com has current natural gas rates. If you purchase your gas from a natural gas broker, please contact them to obtain your gas consumption charge.

Understanding your SaskEnergy bill

- 1) Customer name and address
- 2) Customer account number
- 3) Type of Billing (actual or estimate)
- 4) Type of service
- 5) Billing days
- 6) Present meter reading and dates
- 7) Previous meter reading and date
- 8) Metric factor (cubic feet to cubic metres)
- 9) Billing multiplier
- 10) Consumption in cubic metres
- 11) Previous billing and balance forward information
- 12) Basic monthly charge
- 13) Delivery charge
- 14) Gas supplied by name
- 15) Gas consumption charge
- 16) Municipal payment
- 17) Monthly GST assessed
- 18) SaskEnergy number
- 19) Total amount due

SaskEnergy
YOUR NATURAL CHOICE®

Account Number: 111111 11111 11 111
 Type of Billing: ACTUAL
 Rate: GENERAL SERVICE
 Days of Billing: 30
 4305 0001R
 H03C0R 002

SERVICE SUPPLIED TO: ANYWHERE, SK

Present Reading	Previous Reading	Metric Factor	Billing Multiplier	Usage in m ³
(1939)	- 16729)	X 2.335	X 1	= 7296.980
MAR 9 2007		FEB 7 2007		

CUSTOMER REFERENCE: SKATING RINK

Bill Issued	Balance from Previous Bill	Payment Received - Thank You	Balance Forward
MAR 12 2007	\$ 1322.29	MAR 6, 2007 -1322.29	\$ 0.00

IMPORTANT MESSAGES: Save energy, save money. If your furnace is working at peak efficiency, it will use less energy and cost you less to operate. Book your SaskEnergy Home Check-Up or SaskEnergy Network Home Heating Tune-Up before April 15 and save \$10!

Charge Description	Rate	Usage	Amount
GAS DELIVERY SERVICE	\$17.00/month		17.00
Basic Monthly Charge			460.44
Delivery Charge	7296.980 M3 X \$0.0631/M3		460.44
GAS SUPPLY COST			1957.18
Gas Supplied by SaskEnergy			1957.18
Gas Consumption Charge	7296.980 M3 X \$2.683/M3		1957.18
			2435.22
MUNICIPAL PAYMENT			121.76
Paid to Town of ANYWHERE	\$2435.22 X 5.0%		121.76
			2556.98
FEDERAL GST R119429751	\$2556.98 X 6.0%		153.42
			153.42

CUSTOMER INQUIRIES: PRINCE ALBERT
 PHONE: 1-800-567-8899
 3855 5TH AVE E
 PO BOX 5005
 PRINCE ALBERT S6V 7V6

Share the warmth™

BILL IS DUE AND PAYABLE ON DATE OF ISSUE LATE PAYMENT CHARGES WILL BE ASSESSED AFTER APR 10, 2007

Amount Due: \$2710.40

11 1111 11111 11111 00027104080000000000000271040

PAYABLE AT MOST FINANCIAL INSTITUTIONS		
BALANCE FORWARD		Post Due Late Payment Charge is 1.17% compounded monthly (15% per year)
CURRENT AMOUNT	\$2710.40	Late Payment Charges will be assessed after APR 10, 2007
TOTAL DUE	\$2710.40	Amount Paid

VALUED SASKENERGY CUSTOMER (\$)
 ANYWHERE SK S4P 4K5

Cash Cheque Interac