



# Milton-Freewater City Light & Power

## Electric Load Data Form

Estimate # \_\_\_\_\_  
 Work Order # \_\_\_\_\_  
 Op Order # \_\_\_\_\_  
 Eng Tech \_\_\_\_\_

**Estimate Fees: (Circle One) Res \$100 – Comm \$200 – Ind \$500 – Ind HDL \$1,000**  
*Estimate Fee is deducted from your construction fees if job is completed; otherwise it is non-refundable.*

*This form must be filled out as complete as possible in order to size your service correctly. Any service provided will be provided in accordance with the City's Electric Regulations. Areas in (parenthesis) are for City use.*

### Contact Information

Owner Name _____		Electrician/Contractor _____	
Current Mailing Address _____		Electrician/Contractor Mailing Address _____	
City/State/Zip _____		City/State/Zip _____	
Phone _____	Cell Number _____	Phone _____	Cell Number _____
Email: _____		Email: _____	

### (Proposed Rate Schedule)

- Residential
- Small Commercial
- Large Irrigation
- Commercial & Industrial
- Churches
- Orchard Fan
- Irrigation/Pump Service

### Requested Service Information

Service Location: \_\_\_\_\_

All Electric  YES  NO      Voltage      Amps

New Construction       120/240       200

Additional Load/Upgrade       120/208       320 Continuous

1-Phase       3-Phase       277/480       400

Square Footage \_\_\_\_\_       240/480       600-800

### Service Type

**Temporary**     Overhead     Underground | \$200 fee

Requested Connect Date: \_\_\_\_\_ (Connect Date)

(Temp Fee) \_\_\_\_\_ (Paid Date)

**Permanent**     Overhead     Underground

Requested Connect Date: \_\_\_\_\_ (Connect Date)

### Major Load Items (Attach additional sheet, if needed)

ITEM	QTY	1-PHASE	3-PHASE	ITEM	QTY	1-PHASE	3-PHASE	MISC ITEM	1-PHASE	3-PHASE
Space Heater	___	___KW	___KW	Water Heater	___	___KW	___KW	_____	___KW	___KW
Heat Pump	___	___tons	___tons	Demand Wtr Htr	___	___KW	___KW	_____	___KW	___KW
Backup Heat Strips	___	___KW	___KW	Inside Lighting	___	___KW	___KW	_____	___KW	___KW
Air Conditioner	___	___tons	___tons	Outside Lighting	___	___KW	___KW	_____	___KW	___KW
Kitchen Range	___	___KW	___KW	Data Processing	___	___KW	___KW	_____	___KW	___KW
Kitchen Equipment	___	___KW	___KW	Welding	___	___KW	___KW	_____	___KW	___KW

**TOTAL KW Demand** \_\_\_\_\_

### Motor Loads

Largest Motor    HP: \_\_\_\_\_ Voltage: \_\_\_\_\_ Phase: \_\_\_\_\_ FLA: \_\_\_\_\_ LRA: \_\_\_\_\_ NEMA Code: \_\_\_\_\_ # Starts per day: \_\_\_\_\_

Reduced Voltage Starting:  YES  NO      Variable Frequency Drive:  YES  NO

*Reduced voltage starting is required for all motors with nameplate horsepower ratings of 20 HP and above. The City reserves the right to limit the number of motor starts per day or require additional remedial action to correct objectionable voltage fluctuations. See Electrical Regulations 5-6-27.*

Owner Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## How to fill out the load data form...

The City sizes your service conductor and transformer based on your estimated demand. The information provided on the load data form is intended to help the City determine your demand requirements so we can provide you with an adequate service.

### For residential services

For a single-family residence generally you have the option of a 120/240 volt 200 or 400 (320 amp continuous) amp service. For most homes up to 3500 square feet a 200 amp service is more than adequate. If you are planning on a larger home or you plan to power outbuildings that might require their own 200 amp service you may want to consider installing a 320 continuous amp service. The 320 continuous service enables you to have 200 amps for your home and 200 amps to your outbuilding served from one meter base. Having a good understanding of what your power requirements (demand) are, now and in the future, will help you decide what size meter base to install.

When filling out the load data form, standard items like refrigeration, lighting or kitchen equipment, it's acceptable to estimate demand based off research of similar equipment or appliances you plan to use. There are many online resources that will give you an idea of how to estimate usage and demand for appliances. We've listed a few below that you might find helpful. We strongly recommend getting the advice of a qualified electrician.

<http://energy.gov/energysaver/estimating-appliance-and-home-electronic-energy-use>  
<http://www.siliconvalleypower.com/for-residents/save-energy/appliance-energy-use-chart>  
<http://www.cpi.coop/my-account/online-usage-calculator/>

For the large demand items like your HVAC system, "instant-hot" water heaters, or any large electric motors it's important to list the actual power requirements of the equipment you plan to install. For heat pumps list the size of the unit in "Tons" and the amount of auxiliary (back-up) heat strips the unit uses. This will allow us to account for the steady state load and minimize light "flicker" from motor starting.

Under the "MISC ITEMS" column fill in any significant load items you may be planning for that aren't already listed. For example a hot-tub or shop equipment.

### Estimate Fees (Resolution No. 2377)

Residential	\$100
Commercial (<50 KW per month)	\$200
Industrial (>50 KW per month)	\$500
Industrial/HDL (>1 MW per month)	\$1,000

*Estimate fees are charged per estimate (ex: UG & OH designs at same location are two separate estimates and both will be charged a fee). The estimate fee is deducted from your job cost, if job is accepted; otherwise non-refundable. In the above example only one estimate fee would be credited the other non-refundable)*

### Temporary Service Fee (Resolution No. 2377)

The flat fee for construction temporary service is **\$200** for service drop and meter.