

# POWER SMART PARTNER EXPRESS PROGRAM ALL ELIGIBLE PRODUCTS

## EFFECTIVE JANUARY 12, 2012

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For more information, call 604 522 4713 in the Lower Mainland or 1 866 522 4713 elsewhere in BC.

## LINEAR FLUORESCENT LIGHTING

Existing Technology	Product Replacement Description
<b>Fluorescent T12 Magnetic Ballast</b>	
2' 1 lamp T12 magnetic ballast	2' 17 W T8, 1 lamp, electronic ballast
2' 2 lamp T12 magnetic ballast	2' 17 W T8, 2 lamps, electronic ballast
2' 4 lamp T12 magnetic ballast	2' 14 W T5, 2 lamps 2' 24 W T5HO, 1 lamp
3' 1 lamp T12 magnetic ballast	3' 25 W T8, 1 lamp, electronic ballast
3' 2 lamp T12 magnetic ballast	3' 25 W T8, 2 lamps, electronic ballast
4' 1 lamp T12 magnetic ballast	4' 30 W or less T8, 1 lamp, electronic ballast 4' 30 W or less T8, 1 lamp, dimmable electronic ballast with control 4' 32 W T8, 1 lamp, electronic ballast 4' 32 W T8, 1 lamp, dimmable electronic ballast with control
4' 2 lamp T12 magnetic ballast	4' 30 W or less T8, 2 lamps, electronic ballast 4' 30 W or less T8, 1 lamp, electronic ballast (overlit area—delamped) 4' 30 W or less T8, 2 lamps, dimmable electronic ballast with control 4' 32 W T8, 2 lamps, electronic ballast 4' 32 W T8, 1 lamp, electronic ballast (overlit area—delamped) 4' 32 W T8, 2 lamps, dimmable electronic ballast with control
4' 3 lamp T12 magnetic ballast	4' 30 W or less T8, 3 lamps, electronic ballast 4' 30 W or less T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 30 W or less T8, 3 lamps, dimmable electronic ballast with control 4' 32 W T8, 3 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 32 W T8, 3 lamps, dimmable electronic ballast with control

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## LINEAR FLUORESCENT LIGHTING

Existing Technology	Product Replacement Description
4' 4 lamp T12 magnetic ballast	4' 30 W or less T8, 4 lamps, electronic ballast 4' 30 W or less T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 30 W or less T8, 3 lamps, electronic ballast (overlit area—delamped) 4' 30 W or less T8, 4 lamps, dimmable electronic ballast with control 4' 32 W T8, 4 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 32 W T8, 3 lamps, electronic ballast (overlit area—delamped) 4' 32 W T8, 4 lamps, dimmable electronic ballast with control 4' 26 W T5, 2 lamps 4' 51 W or less T5H0, 1 lamp 4' 28 W T5, 2 lamps 4' 54 W T5H0, 1 lamp
8' 1 lamp T12 magnetic ballast	4' 30 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast
8' 2 lamp T12 magnetic ballast	4' 30 W or less T8, 4 lamps, electronic ballast 8' 57 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 4 lamps, electronic ballast 8' 59 W T8, 2 lamps, electronic ballast
<b>Fluorescent T12 Electronic Ballast</b>	
4' 1 lamp T12 electronic ballast	4' 30 W or less T8, 1 lamp, electronic ballast 4' 32 W T8, 1 lamp, electronic ballast
4' 2 lamp T12 electronic ballast	4' 30 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast

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4' 3 lamp T12 electronic ballast	4' 30 W or less T8, 3 lamps, electronic ballast 4' 30 W or less T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 32 W T8, 3 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast (overlit area—delamped)
4' 4 lamp T12 electronic ballast	4' 30 W or less T8, 4 lamps, electronic ballast 4' 30 W or less T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 30 W or less T8, 3 lamps, electronic ballast (overlit area—delamped) 4' 32 W T8, 4 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast (overlit area—delamped) 4' 32 W T8, 3 lamps, electronic ballast (overlit area—delamped)
8' 1 lamp T12 electronic ballast	4' 30 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast
8' 2 lamp T12 electronic ballast	4' 30 W or less T8, 4 lamps, electronic ballast 8' 57 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 4 lamps, electronic ballast 8' 59 W T8, 2 lamps, electronic ballast
<b>Fluorescent T12 HO Magnetic Ballast</b>	
4' 2 lamp T12 HO magnetic ballast	4' 30 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast
8' 2 lamp T12 HO magnetic ballast	4' 30 W or less T8, 4 lamps, electronic ballast 4' 32 W T8, 4 lamps, electronic ballast 8' 59 W T8, 2 lamps, electronic ballast (high ballast factor) 4' 54 W T5HO, 2 lamps 2, 4' 28 W T5, 2 lamps

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## LINEAR FLUORESCENT LIGHTING

Existing Technology	Product Replacement Description
8' 2 lamp T12 HO magnetic ballast (cold temperature only)	8' 86 W T8HO, 2 lamps, electronic ballast (cold temperature)
<b>Fluorescent T8 Electronic Ballast</b>	
4' 4 lamp T8 electronic ballast	4' 51 W or less T5HO, 1 lamp 4' 54 W T5HO, 1 lamp 4' 26 W T5, 2 lamps 4' 28 W T5, 2 lamps
<b>Fluorescent T8 Lamps</b>	
4' T8 Lamp	4' 25 W T8 lamp 4' 28 W T8 lamp 4' 30 W T8 lamp
8' T8 Lamp	8' 57 W or less T8 lamp
<b>Fluorescent T8 Magnetic Ballast</b>	
4' 1 lamp T8 magnetic ballast	4' 30 W or less T8, 1 lamp, electronic ballast 4' 32 W T8, 1 lamp, electronic ballast
4' 2 lamp T8 magnetic ballast	4' 30 W or less T8, 2 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast
4' 3 lamp T8 magnetic ballast	4' 30 W or less T8, 2 lamps, electronic ballast (overlit area) 4' 30 W or less T8, 3 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast (overlit area) 4' 32 W T8, 3 lamps, electronic ballast

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4' 4 lamp T8 magnetic ballast	4' 30 W or less T8, 2 lamps, electronic ballast (overlit area)
	4' 30 W or less T8, 3 lamps, electronic ballast (overlit area)
	4' 30 W or less T8, 4 lamps, electronic ballast
	4' 32 W T8, 2 lamps, electronic ballast (overlit area)
	4' 32 W T8, 3 lamps, electronic ballast (overlit area)
	4' 32 W T8, 4 lamps, electronic ballast

## LUMINAIRES FOR STAIRWELLS ONLY

### T12 Magnetic Ballast

2' 2 lamp T12 magnetic ballast	2' 17 W T8, 2 lamps, electronic ballast, bi-level
4' 1 lamp T12 magnetic ballast	2' 17 W T8, 2 lamps, electronic ballast, bi-level
4' 2 lamp T12 magnetic ballast	4' 32 W T8, 2 lamps, electronic ballast, bi-level (low ballast factor)

### CFL

2x26 W CFL	4' 32 W T8, 2 lamps, electronic ballast, bi-level (low ballast factor)
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## OTHER LIGHTING

Existing Technology	Product Replacement Description
<b>Incandescent</b>	
Incandescent Luminaire (>100 W)	2' 14 W T5, 2 lamps 4' 26 W T5, 2 lamps 4' 28 W T5, 2 lamps 2' 17 W T8, 2 lamps, electronic ballast 3' 25 W T8, 2 lamps, electronic ballast 4' 32 W T8, 2 lamps, electronic ballast 4' 30 W or less T8, 2 lamps, electronic ballast
Incandescent Luminaire (≤60 W)	LED Screw In ≥ 450 lumen and < 1000 lumen LED Hardwired ≤ 15 W
Incandescent Luminaire (<35 W)	LED Screw In decorative < 450 lumen
<b>Halogen</b>	
MR16 (≥ 20 W)	LED MR16 ≥ 200 lumen
Reflector (≤ 60 W)	Reflector Lamp ≤ 600 lumen LED Hardwired ≤ 15 W
Reflector (> 60 W) and (≤ 100 W)	LED Hardwired ≤ 15 W LED Reflector Lamp > 600 lumen and ≤ 1000 lumen
<b>Exit Signs</b>	
Incandescent Exit Sign	LED Exit Sign
CFL Exit Sign	LED Exit Sign

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## OTHER LIGHTING

Existing Technology	Product Replacement Description
<b>High Pressure Sodium</b>	
50 W	LED Luminaire or Retrofit Kit ≤ 15 W
70 W	4' 32 W T8, 2 lamps, electronic ballast 4' 54 W T5HO, 1 lamp 50 W High Pressure Sodium (electronic) 50 W Pulse Start Metal Halide (electronic) Induction Luminaire or Retrofit Kit ≤ 40 W LED Luminaire or Retrofit Kit ≤ 40 W
100 W	4' 32 W T8, 2 lamps, electronic ballast (overlit) 4' 54 W T5HO, 1 lamp (overlit) 70 W High Pressure Sodium (electronic) 70 W Pulse Start Metal Halide (electronic) Induction Luminaire or Retrofit Kit ≤ 80 W LED Luminaire or Retrofit Kit ≤ 80 W
150 W	100 W High Pressure Sodium (electronic) 100 W Pulse Start Metal Halide (electronic) 100 W Pulse Start Metal Halide (magnetic) 4' 54 W T5HO, 2 lamps High Bay Fluorescent ≤ 110 W Induction Luminaire or Retrofit Kit ≤ 110 W LED Luminaire or Retrofit Kit ≤ 110 W

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### OTHER LIGHTING

Existing Technology	Product Replacement Description
200 W	150 W High Pressure Sodium (electronic) 150 W Pulse Start Metal Halide (electronic) 175 W Pulse Start Metal Halide (magnetic) Induction Luminaire or Retrofit Kit ≤ 130 W LED Luminaire or Retrofit Kit ≤ 130 W
250 W	150 W High Pressure Sodium (electronic) 150 W Pulse Start Metal Halide (electronic) 175 W Pulse Start Metal Halide (electronic) 175 W Pulse Start Metal Halide (magnetic) High Bay Fluorescent ≤ 210 W Induction Luminaire or Retrofit Kit ≤ 180 W LED Luminaire or Retrofit Kit ≤ 180 W
400 W	250 W High Pressure Sodium (electronic, overlit) 250 W Pulse Start Metal Halide (electronic, overlit) 320 W Pulse Start Metal Halide (electronic) 350 W Pulse Start Metal Halide (electronic) 320 W Pulse Start Metal Halide (magnetic) 350 W Pulse Start Metal Halide (magnetic) High Bay Fluorescent ≤ 375 W Induction Luminaire or Retrofit Kit ≤ 350 W LED Luminaire or Retrofit Kit ≤ 350 W (outdoor only)

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## OTHER LIGHTING

Existing Technology	Product Replacement Description
1000 W	575 W Pulse Start Metal Halide (electronic, overlit) 600 W Pulse Start Metal Halide (electronic, overlit) 750 W Pulse Start Metal Halide (electronic) 600 W High Pressure Sodium (electronic, overlit) 750 W Pulse Start Metal Halide (magnetic) 775 W Pulse Start Metal Halide (magnetic) 875 W Pulse Start Metal Halide (magnetic)
<b>Metal Halide</b>	
50 W	LED Luminaire or Retrofit Kit ≤ 15 W
70 / 75 W	4' 32 W T8, 2 lamps, electronic ballast 4' 54 W T5HO, 1 lamp 50 W Pulse Start Metal Halide (electronic) Induction Luminaire or Retrofit Kit ≤ 40 W LED Luminaire or Retrofit Kit ≤ 40 W
100 W	4' 32 W T8, 2 lamps, electronic ballast 4' 54 W T5HO, 1 lamp 70 W Pulse Start Metal Halide (electronic) Induction Luminaire or Retrofit Kit < 80 W LED Luminaire or Retrofit Kit ≤ 80 W
150 W	100 W Pulse Start Metal Halide (electronic) 4' 54 W T5HO, 2 lamps Induction Luminaire or Retrofit Kit ≤ 110 W

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## OTHER LIGHTING

Existing Technology	Product Replacement Description
175 W	150 W Pulse Start Metal Halide (electronic) 100 W Pulse Start Metal Halide (magnetic, overlit) 125 W Pulse Start Metal Halide (magnetic) 150 W Pulse Start Metal Halide (magnetic) 150 W Energy Efficient Metal Halide (lamp only) High Bay Fluorescent ≤ 130 W Induction Luminaire or Retrofit Kit ≤ 110 W LED Luminaire or Retrofit Kit ≤ 110 W
250 W	150 W Pulse Start Metal Halide (electronic) 175 W Pulse Start Metal Halide (electronic) 150 W Pulse Start Metal Halide (magnetic) 175 W Pulse Start Metal Halide (magnetic) 200 W Pulse Start Metal Halide (magnetic) 205 W Energy Efficient Metal Halide (lamp only) High Bay Fluorescent ≤ 210 W Induction Luminaire or Retrofit Kit ≤ 180 W LED Luminaire or Retrofit Kit ≤ 180 W
360 W	250 W Pulse Start Metal Halide (magnetic, overlit) High Bay Fluorescent ≤ 375 W

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## OTHER LIGHTING

Existing Technology	Product Replacement Description
400 W	250 W Pulse Start Metal Halide (electronic) 320 W Pulse Start Metal Halide (electronic) 350 W Pulse Start Metal Halide (electronic) 250 W Pulse Start Metal Halide (magnetic, overlit) 320 W Pulse Start Metal Halide (magnetic) 350 W Pulse Start Metal Halide (magnetic) 330 W Energy Efficient Metal Halide (lamp only) 360 W Energy Efficient Metal Halide (lamp only) High Bay Fluorescent ≤ 375 W Induction Luminaire or Retrofit Kit ≤ 350 W LED Luminaire or Retrofit Kit ≤ 350 W (outdoor only)
1000 W	750 W Pulse Start Metal Halide (magnetic) 775 W Pulse Start Metal Halide (magnetic) 875 W Pulse Start Metal Halide (magnetic) 750 W Pulse Start Metal Halide (electronic) 575 W Pulse Start Metal Halide (electronic, overlit) 600 W Pulse Start Metal Halide (electronic, overlit)
<b>Standard HID</b>	
Mercury Vapour	High Pressure Sodium Pulse Start Metal Halide Lamp and Ballast
<b>Legacy Signage</b>	
Neon	LED strips
Fluorescent	LED strips

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## ORNAMENTAL STREET LIGHTING

Existing Technology	Product Replacement Description
<b>High Pressure Sodium</b>	
100 W	70 W Energy Efficient High Pressure Sodium with Flat Lens Flat Lens Induction Luminaire ≤ 80 W
150 W	100 W Energy Efficient High Pressure Sodium with Flat Lens Flat Lens Induction Luminaire ≤ 130 W
200 W	150 W Energy Efficient High Pressure Sodium with Flat Lens Flat Lens Induction Luminaire ≤ 130 W
250 W	150 W Energy Efficient High Pressure Sodium with Flat Lens 200 W Energy Efficient High Pressure Sodium with Flat Lens Flat Lens Induction Luminaire ≤ 180 W
400 W	250 W Energy Efficient High Pressure Sodium with Flat Lens
<b>Metal Halide</b>	
100 W	70 W Energy Efficient Metal Halide with flat lens 75 W Energy Efficient Metal Halide with flat lens 70 W Energy Efficient High Pressure Sodium with flat lens 75 W Energy Efficient High Pressure Sodium with flat lens Flat Lens Induction Luminaire ≤ 80 W
150 W	100 W Energy Efficient Metal Halide with flat lens 100 W Energy Efficient High Pressure Sodium with flat lens Flat Lens Induction Luminaire ≤ 130 W
175 W	150 W Energy Efficient Metal Halide with flat lens 150 W Energy Efficient High Pressure Sodium with flat lens Flat Lens Induction Luminaire ≤ 110 W

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## ORNAMENTAL STREET LIGHTING

Existing Technology	Product Replacement Description
250 W	175 W Energy Efficient Metal Halide with flat lens 150 W Energy Efficient High Pressure Sodium with flat lens Flat Lens Induction Luminaire ≤ 180 W
<b>Mercury Vapour</b>	
175 W	100 W Energy Efficient Metal Halide with flat lens 100 W Energy Efficient High Pressure Sodium with flat lens Flat Lens Induction Luminaire ≤ 110 W
250 W	150 W Energy Efficient Metal Halide with flat lens 150 W Energy Efficient High Pressure Sodium with flat lens Flat Lens Induction Luminaire ≤ 180 W
400 W	250 W Energy Efficient Metal Halide with flat lens 250 W Energy Efficient High Pressure Sodium with flat lens

## CONTROLS AND SENSORS

Existing Technology	Product Replacement Description
Interior Lighting	Occupancy Sensor—per circuit Switch plate timer—per circuit
Exterior Lighting	Photocell with timer—per luminaire

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## HVAC

Existing Technology	Product Replacement Description
HVAC Fan	Fan with variable frequency drive
HVAC Pump	Pump with variable frequency drive
Packaged Terminal A/C Unit	HVAC Occupancy Sensor
Packaged Terminal Heat HVAC Occupancy Sensor Pump with built in electrical resistance heater unit	HVAC Occupancy Sensor
<b>Economizer Controller Sensor</b>	<b>Economizer Controller Sensor (Rooftop units &gt;7 tons)</b>
Inefficient sensor (HVAC system $\geq$ 7.5 tons and < 10 tons)	Efficient sensor (HVAC system $\geq$ 7.5 tons and < 10 tons)
Inefficient sensor (HVAC system $\geq$ 10 tons and $\leq$ 15 tons)	Efficient sensor (HVAC system $\geq$ 10 tons and $\leq$ 15 tons)
Inefficient sensor (HVAC system > 15 tons)	Efficient sensor (HVAC system > 15 tons)

## REFRIGERATION

Existing Technology	Product Replacement Description
Open vertical display case (low temperature)	New vertical display case with doors (low temperature) Add doors to open displays
Anti-sweat heater for vertical display case doors	Add Anti-sweat heater humidistat control
Open vertical display cases (low or medium temperature)	Add night covers
Open horizontal display cases (low temperature)	Add night covers

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## REFRIGERATION

Existing Technology	Product Replacement Description
Open entrance to walk-in cases (low or medium temperature)	Add strip curtain to entrance
Shaded pole motor for walk in coolers (low and medium temperature)	New ECM Fan Motor System
Standard evaporator fan motor for reach-in refrigerated cases (low and medium temperature)	New ECM Fan Motor System
<b>Solid door freezer</b>	
<15 cu. ft.	ENERGY STAR® freezer <15 cu. ft.
15–30 cu. ft.	ENERGY STAR freezer 15–30 cu. ft.
31–50 cu. ft.	ENERGY STAR freezer 31–50 cu. ft.
>50 cu. ft.	ENERGY STAR freezer >50 cu. ft.
<b>Glass door refrigerator</b>	
31–50 cu. ft.	ENERGY STAR refrigerator 31–50 cu. ft.
>50 cu. ft.	ENERGY STAR refrigerator >50 cu. ft.
<b>Lighting—1-door unit</b>	
T12 HO magnetic ballast or T10 VHO	LED Refrigerated Lighting System
T12 HO electronic ballast	LED Refrigerated Lighting System

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## COMMERCIAL KITCHENS

Existing Technology	Product Replacement Description
Electric pressureless steamer	Efficient electric pressureless steamer
Convection oven	Efficient convection oven
Combination oven	Efficient combination oven
Half size insulated hot food holding cabinet	Efficient half size insulated hot food holding cabinet
Full size insulated hot food holding cabinet	Efficient full size insulated hot food holding cabinet
Electric griddle	ENERGY STAR electric griddle
T12 H0 electronic ballast	LED Refrigerated Lighting System
<b>Exhaust hood—supply fan and exhaust fan HP total</b>	
≤ 5 HP	Add demand ventilation controls ≤ 5 HP
> 5 HP and ≤ 15 HP	Add demand ventilation controls > 5 HP and ≤ 15 HP
>15 HP and ≤ 25 HP	Add demand ventilation controls > 15 HP and ≤ 25 HP

## COMMERCIAL DISHWASHERS—ELECTRIC HOT WATER

Existing Technology	Product Replacement Description
Door Type, Low Temp	ENERGY STAR Door Type, Low Temp
Door Type, High Temp	ENERGY STAR Door Type, High Temp
Single Tank Conveyor, Low Temp	ENERGY STAR Single Tank Conveyor, Low Temp
Single Tank Conveyor, High Temp	ENERGY STAR Single Tank Conveyor, High Temp
Multi Tank Conveyor, Low Temp	ENERGY STAR Multi Tank Conveyor, Low Temp
Multi Tank Conveyor, High Temp	ENERGY STAR Multi Tank Conveyor, High Temp

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## COMMERCIAL ICE MAKING MACHINES

Existing Technology	Product Replacement Description
Inefficient ice machines (>450 and <1000 lbs of ice / 24 hrs)	CEE Tier 2 Ice machine (cube/nugget type)— >450 and <1000 lbs of ice / 24 hrs
Inefficient ice machines (>1000 lbs of ice / 24 hrs)	CEE Tier 2 Ice machine (cube/nugget type)— >1000 lbs of ice / 24 hrs

## ICE RINK TECHNOLOGIES

Existing Technology	Product Replacement Description
Ice Rink	Low Emissivity Ceiling (ice rinks) Low Emissivity Ceiling (curling rinks)
Brine Pump	Pony Motor Variable Frequency Drive
Brine Pump 15 HP (curling rink)	Pony Motor—5 HP Variable Frequency Drive—15 HP

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## LIVESTOCK WATERER

Existing Technology	Product Replacement Description
<b>Lower Mainland</b>	
Herd ≤ 100 Livestock	Energy Efficient Livestock Waterer Energy Free Livestock Waterer
Herd > 100 Livestock	Energy Efficient Livestock Waterer Energy Free Livestock Waterer
<b>BC interior</b>	
Herd ≤ 100 Livestock	Energy Efficient Livestock Waterer
Herd > 100 Livestock	Energy Efficient Livestock Waterer

## OTHER NON-LIGHTING

Existing Technology	Product Replacement Description
Standard Pump	Variable Speed ECM Pump (1–2 HP)