FREQUENTLY ASKED QUESTIONS

How will SaskPower know when the power goes out?

The microgrid will have a control panel that transmits signals to let us know how the equipment is running. If the control panel sends an error signal or the communication stops, we'll know there is a problem and that power may be disrupted. We're also bringing smart meters to everyone in Saskatchewan, including Descharme Lake. These will help us detect the source of any outage.

What maintenance will the microgrid need?

Throughout the year we'll need to maintain the land around the microgrid for safety and access. The solar panels will need to be cleared of snow and other debris from time to time. The equipment inside of the microgrid container will be serviced on a routine schedule

How will this change my power bill?

The microgrid won't change your power bill. You'll continue to pay based on how much power you use. When smart meters are installed, there will be no more estimated bills. You'll only pay for the exact power you use.

Who can I contact?

If you have questions about the microgrid, please contact **IndigenousRelations@saskpower.com** or call **1-306-240-5536**.



Descharme Lake

MICROGRID

The Descharme Lake Microgrid is the first independent power system of its kind in Saskatchewan.

It's an innovative and custom-built system that combines solar power, battery storage, and back-up diesel generation to serve the community of Descharme Lake.











BENEFITS OF MICROGRID



Reliable power in all weather conditions



Reduced impact on forested areas

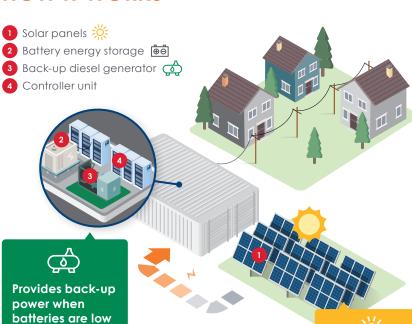


Reduced greenhouse gas emissions intensity



Less costly to maintain than current power line

HOW IT WORKS



runtime 8-12 hours every other day

(i) Average winter

⊕⊖ Excess energy stored in batteries

i Charge time from 0-100% = 8 hours

Over 80% of power generated by sun most days

SAFE AND RELIABLE POWER

The microgrid is built to provide **safe** and **reliable** power for the community year-round and in all weather conditions.

Built-in Safety Features:



Remote safety monitoring 24 hours a day



Safety light (green if operation is normal; red if potential hazard detected)



Automated venting (will close if fire is detected to cut off oxygen to the fire)



Battery control systems (will identify faults/ surges and disconnect batteries if they're not operating correctly)



Leak detection sensors on diesel tank



Alarm (will sound if hazard inside container is detected)



Infrared thermal heat imaging (detects irregular heat within the container)



Carbon monoxide detection

IN CASE OF EMERGENCY



A **red** light is installed on the container to indicate when the safety system has been activated.

If you see the red light on, call 310-2220.



SaskPower has an emergency response plan, and we'll respond to any incident immediately. Our plan identifies possible risks and actions that need to be taken if an incident occurs.