

Jay Sewer Commission  
Jay, Vermont

## Case Study

# WATER UTILITY—PUMP STATION

### AT A GLANCE

#### CUSTOMER

Town of Jay – Jay Sewer Commission

#### LOCATION

Jay, Vermont

#### CHALLENGE

Prevent sewer system failures leading to backups during an outage

#### SOLUTIONS

- KOHLER® 100REOZJF generator set
- KOHLER APM402 controller
- KOHLER KSS-AMTC-0225S ATS open-transition transfer switch
- KOHLER subbase fuel tank: UL Code 142 & state permitted/certified
- KOHLER Sound-attenuated, skin-tight enclosure

#### PRIMARY CHOICE FACTORS

KOHLER brand reputation for quality and reliability, relationship with local Kohler dealer, and authorized distributor support



A KOHLER 100REOZJF provides emergency standby power for the sewer system in Jay, Vermont.

### BACKGROUND

Jay, Vermont is a small town located in Orleans County, hosting a population of 521 residents. It was named after John Jay, one of the founding fathers of the United States, and also its first Chief Justice. The town borders Québec, Canada to the north and is popularly known as the “Northeast Kingdom.” Its rugged beauty and mix of terrain have made it a tourist destination for all seasons. The central attraction is Jay Peak Resort which features an 18-hole golf course, an NHL-size indoor ice arena, an indoor water park, a conference center, and a

mountain learning center. Jay is also a destination for Vermont’s popular fall colors.

Though the local population is small, the influx of tourists puts a significant load on the town’s infrastructure, including the sewer and water systems. A power outage could be catastrophic because it could lead to sewage backups, which, in turn, could negatively affect the health of residents and tourists alike—not to mention Jay’s reputation as an attractive tourist destination.



The solution for the Jay Sewer Commission includes the 100REOZJF, diesel-powered generator set with integral subbase fuel tank. The solution also includes an APM402 controller, a KSS-AMTC-0225S ATS open-transition transfer switch, and a sound-attenuated, skin-tight enclosure with an automotive-grade finish to resist the elements. Kohler Power Systems has delivered energy solutions for markets worldwide since 1920. For more information, visit [KohlerPower.com](http://KohlerPower.com).

## CHALLENGE

The challenge for the Jay Sewer Commission was to find a fully-integrated emergency standby solution with proven reliability.

## SOLUTION

To explore possible standby solutions, Jay's chief operator, Steve Button, reached out to Sean Hall, sales engineer at Kinsley Power Systems. Hall recommended a complete Kohler solution, tailored to the project. Founded in 1964 and headquartered in East Granby, Connecticut, Kinsley Power Systems is an energy solutions provider specializing in working collaboratively with customers to ensure project success. D & D Electric was chosen as the electrical contractor and authorized Kohler distributor, Kinsley Power Systems, served as the equipment supplier.

The solution includes a KOHLER® 100REOZJF generator set, featuring a permanent-magnet alternator for excellent voltage response and short-circuit capability. Vacuum-impregnated windings with fungus-resistant epoxy varnish promote dependability and long life. The APM402 controller provides metering, control, and diagnostics for the generator set and features a digital display and push-button dial for easy access to data. An integrated voltage regulator maintains consistent voltage output and a built-in alternator overload protection circuit ensures safe generator operation. The corresponding KOHLER KSS-AMTC-0225S ATS automatic transfer switch provides fast, automatic transitions from grid to generator set. It also features front-accessible contacts for easy inspection. A NEMA 3R enclosure protects the switch from the elements, ensuring reliable operation.

The integrated solution also includes a UL-2200 Listed, sound-attenuated

enclosure. The enclosure is designed to meet a 150 mph wind-load rating and features fade-, scratch-, and corrosion-resistant KOHLER Power Armor™ automotive-grade textured finish to resist inclement weather. A block heater ensures reliable operation during cold winter months. The latter also meets UL 94 HF1 flammability classification and repels moisture absorption. Easily-accessible doors and panels facilitate service and local operation. Kohler Co. provides one-source responsibility for the generating systems and accessories.

A Kohler-manufactured, 24-hour, UL 142 integral subbase fuel tank with a 209-gallon capacity offers continuous operation until the restoration of grid power or refueling is needed. The tank features Power Armor Plus™ textured epoxy-based rubberized coating which prevents corrosion and provides UV-resistance. Both the inner and outer tanks have emergency relief vents. The subbase tank also features an environmentally-friendly secondary containment tank surrounding the primary tank. A privacy/security fence protects the generator and helps it blend into the natural scenery.

## RESULTS

The integrated emergency standby power solution for Jay's sewage system has performed flawlessly, according to Jay's chief operator, Steve Button. "Kohler has an excellent reputation for quality and reliability. As the Town's chief operator, one of my responsibilities is to protect the citizens and visitors from any health concerns, but also to preserve our reputation as a leading tourist destination. I have known about KOHLER generators for years and knew I could rely on their performance and reliability," said Button. ■

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