



## CASE STUDY

# Powering Essential Public Services with Custom Engineering

### Project Overview

The City of Columbus needed to replace a failed 80 kW backup generator at the Greenlawn Avenue Wastewater Plant. Reliable standby power is essential for wastewater infrastructure, where any interruption in operations could affect essential public services.

The existing generator had reached the end of its life. However, the city had recently replaced the fuel tank beneath the unit and wanted to reuse this newer tank rather than install a completely new system.

To complete the project efficiently and cost-effectively, the city asked Engine Energy & Automation (EE&A) to supply a new generator that could integrate seamlessly with the existing fuel tank.

### Client Requirements

The project required a generator that could:

- Replace the failed 80 kW standby generator
- Integrate perfectly with the recently installed fuel tank
- Match the existing layout for quick removal and replacement
- Minimize installation time and disruption to wastewater plant operations

Because the new generator needed to fit precisely on the existing infrastructure, dimensional accuracy and customization were critical.

### HIPOWER Solutions

EE&A selected a HIPOWER generator due to HIPOWER's ability to support custom configurations and precise engineering adjustments.

Working closely with EE&A, the HIPOWER team analyzed the fuel tank specifications and connection points, verifying:

- Stub-up access locations
- Load requirements
- Mounting dimensions
- Electrical and fuel connections

Engineering resources were used to confirm every dimension required for a seamless replacement. This careful coordination ensured the new generator would match the existing setup and simplify the installation process.

The result was a perfect fit, allowing the new generator to be installed directly onto the city's recently installed fuel tank with minimal modifications.



HIPOWER DEALER PARTNER

**Engine Energy & Automation, LLC (EE&A)**

LOCATION | **Greenlawn Ave, C-BUS, OH**

END USER | **The City of Columbus**

INSTALLATION DATE | **February 2026**

INDUSTRY | **Wastewater Treatment**



#### Target

Meet the precise customization guidelines to replace an old generator with a new one.



#### Development

A customized power solution tailored for existing infrastructure for an essential public service.




#### Solution

HIPOWER HDI-80F T6U with standard cold-weather accessories.

## Contact Us

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## HIPOWER Equipment

### Generator Model: HIPOWER HDI-80F T6U

This diesel generator package provides reliable standby power for critical municipal infrastructure and was equipped with standard cold-weather accessories to ensure dependable operation in Ohio's seasonal climate.

## Installation Process & Challenges

Because the generator provides backup power for a wastewater facility, maintaining system readiness during installation was essential. The installation involved:



- ✓ Temporarily transferring backup requirements while the original unit was taken offline.
- ✓ Carefully disconnecting and identifying all existing wiring and connections.
- ✓ Removing the old generator.
- ✓ Using a crane to lift and install the new unit onto the existing fuel tank.

Thanks to the precise engineering validation beforehand, the generator fit perfectly, allowing for a fast reconnection of all systems.

## Project Impact

- Seamless replacement of a failed standby generator
- Successful reuse of existing fuel infrastructure
- Minimal downtime for critical wastewater operations
- Strong first impression of HIPOWER equipment for the City of Columbus

This project represents the first HIPOWER generator package purchased by the City of Columbus, opening the door for future opportunities as city personnel and other municipalities see the installation in operation.

## Acknowledgment

Both EE&A and the City of Columbus expressed appreciation for the collaboration and attention to detail provided by the HIPOWER team.

The project stands as a strong example of how engineering support, customization capabilities, and precise manufacturing can simplify complex generator replacement projects.



## Results

The installation was completed smoothly and efficiently. When the system was started, the new HIPOWER generator performed flawlessly, delivering immediate standby capability for the facility.

The City of Columbus was particularly pleased that the project allowed them to reuse their newer fuel tank, saving both time and costs while achieving a clean and professional installation. According to EE&A, the generator package "fit like a glove."

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