

TYPE: Resolution
SUBMITTED BY: Roy Kressman
DEPARTMENT: Public Works
DATE: 08/25/2026

DESCRIPTION:

Public Works: Resolution Authorizing the Execution of A Purchase Order to Energenecs Inc. for the Purchase and Installation of Controllers, Monitoring Probes, and SCADA Integration at the Village's Wastewater Treatment Plant in the Not-to-Exceed Amount of \$128,700

COMMITTEE ACTION:

N / A

DATE:

BACKGROUND:

The Village owns and operates a Wastewater Treatment Plant (WWTP), which is responsible for treating all wastewater within the Village and a portion of Elk Grove Village. This is accomplished through a multi-stage process that includes physical, chemical, and biological methods to remove contaminants. The Village then discharges the treated wastewater into the waterway, while meeting established EPA NPDES standards, including limits for BOD, TSS, Ammonia Nitrogen, phosphorus, fecal coliform, and chlorine. The Village remotely monitors flow rates and chemical and mechanical operations through its SCADA system to support the treatment process and assist in decision-making.

KEY ISSUES:

Wastewater treatment is a complex array of biological, chemical, and mechanical processes, along with operational decisions. Staff currently chemically treats incoming wastewater using a constant dosage established through lab work, which provides proper dosing rates only when samples are taken. This process does not allow real-time treatment changes because of limited data, which reduces treatment efficiency.

Staff recognized the need for probes that create a real-time profile of the wastewater introduced to the treatment plant and allow immediate biological, chemical, and mechanical process changes. These real-time changes improve energy and chemical efficiency by reducing chemical dosage and mechanical use when demand is low and increasing them appropriately when demand is high. These probes will be integrated into the Village's SCADA system, which will automate changes in the WWTP. Staff will be able to adjust the treatment process, create trend profiles, and establish historical profiles based on incoming flow in an effort to achieve peak efficiency.

Staff requested a proposal from Energenecs, the Village's SCADA provider, to supply the equipment, components, and integration into the Village's SCADA platform. The proposed fee to perform this work was \$128,700.

ALTERNATIVES: Discretion of the Village Board

BUDGET IMPACT:

The CY26 CIP budget included \$130,000 for this project under Account Number 51080880 594000

26304. This project's financial impact on the Village is \$128,700.

ACTION REQUIRED:

Approval of a Resolution Authorizing the Execution of A Purchase Order to Energenecs Inc. for the Purchase and Installation of Controllers, Monitoring Probes, and SCADA Integration at the Village's Wastewater Treatment Plant in the Not-to-Exceed Amount of \$128,700

ATTACHMENTS:

[RES - Energenecs 2026 WWTP Probes Purchase Order.pdf](#)

[Proposal - Bensenville WWTP Analyzers.pdf](#)