PotomacEdison®
A FirstEnergy Company

EmPOWER MARYLAND

Case Study

Aggregate Management

Savings by the Numbers

$541,937
Total incentives

2,204,917
Annual kWh savings

$315,524
Estimated annual savings

The Opportunity

Aggregate Management, a family-owned and -operated business, has been a cornerstone in the sand and gravel industry for 40+ years. With a strong commitment to quality and sustainability, they have been operating multiple operations across various cities in Maryland, including Laurel Hill, Beaver Creek, Savage and Finksburg. Their operations produce crushed stone for use in road building, construction, concrete and asphalt paving.
The company is dedicated to improving operational efficiencies and contributing to the local economy by creating jobs through continuous operational improvements.

The Project

Aggregate Management needed solutions **for three key areas** across two facilities:

Laurel Hill Sand & Gravel

- **The problem:** The plant required a hydrocyclone to classify the components of the waste stream and use the correctly sized sand in a new product.
- **The solution:** A hydrocyclone was added to classify the components of the waste stream and use the correctly sized sand in a new product.

Laurel Hill Sand & Gravel

- **The problem:** The plant needed to prevent stone from having to continually recirculate through the tertiary crushers (and conveyors and screens) to crush it down to the target -1/2" size.
- **The solution:** A new Sandvik CH660 Cone Crusher was installed that will feed existing conveyors, sizing screens and rinse screens.

Beaver Creek

- **The problem:** The plant's existing HP400 tertiary cone crusher was at maximum capacity and needed to be supplemented.
- **The solution:** A new Terex Canica® VSI Crusher was installed that will feed existing conveyors, sizing screens and rinse screens.

CO_2e Avoided: 5.381 metric tons

These reductions represent long-term greenhouse gases that would have otherwise been released into the atmosphere, contributing to climate change. By lowering energy use, this project supports a cleaner, more resilient energy future while delivering lasting environmental and operational benefits.

Energy Equivalencies

3,939,507
miles driven by an average gas-powered vehicle

304
homes' electricity for one year

101,687,699
number of smartphones charged

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The Results

Improving product yield at Aggregate Management's two facilities involved changing process flow and machinery, an expensive upgrade made possible by energy efficiency incentives.

Over **$500,000** in energy efficiency initiatives were provided by Potomac Edison's Energy Solutions for Business Program, and they were a major factor in the decision to proceed. These improvements helped increase the yield of critical products, prevented energy consumption from skyrocketing and reduced long-term greenhouse gases. The **2 million kWh** savings from the upgrades help Aggregate Management save an estimated **$315,000** a year and support their commitment to a cleaner, more resilient energy future.

> "When we look at production from an efficiency point of view — the name of the game is maximizing our desired product yield."
>
> **Randy Heckler**
> Operations Manager

Questions?

Visit energysaveMD-bizsolutions.com or call 855-801-5803 to discover how your business or organization can save.

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EmPOWER Maryland programs are funded by a charge on your electric bill. EmPOWER programs can help you reduce your electricity consumption and save you money. Go to **energysaveMD.com** to learn more about EmPOWER and how you can participate.