

Houston, October 2, 2018

Siemens and Southern Idaho Solid Waste announce commissioning of landfill gas-to-energy project

- **Siemens gas engines generating electrical power from landfill gas to provide energy for approximately 2,000 homes in Idaho**
- **Two engines convert 1,000 tons of landfill waste daily into energy**
- **Project marks successful use of Siemens' highly-energy-efficient engines to capture and use methane**

Siemens and Southern Idaho Solid Waste (SISW) recently announced the successful commissioning of two SGE-56HM gas engines that are providing environmentally friendly electrical power for a landfill gas-to-energy project at the Milner Butte Landfill in Burley, Idaho. Siemens' gas capture engines are helping to convert 1,000 tons of landfill waste daily into energy but SISW officials expect that amount to increase in the near future.

Decomposing waste gives off massive amounts of greenhouse gases, especially methane. SISW engineers worked with Siemens and Siemens' channel partner, Industrial-Irrigation Services, to develop a solution that would capture the methane for use as a fuel gas to produce electricity. "We saw this gas and realized we were just wasting it by burning it for no productive use," said SISW's environmental manager, Nate Francisco.

To capture methane and convert it into electricity, the Milner Butte Landfill deployed two Siemens SGE-56HM gas generator sets to run on the waste gas from the landfill and generate electrical power. Once the landfill gas is converted to electricity, it is transported to Idaho Power through a 20-year purchase agreement and is used by the community as a low-cost source of power. To date, the two engines have

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been generating enough power for approximately 2,000 homes. Each set is rated at 1,300kWe and includes generator controls and a power panel.

Siemens SGE-HM series is purpose-built for landfill gas-to-energy power applications. By incorporating advanced technology and design into the cylinder heads, valves, camshafts, and turbochargers, the SGE-56HM engine provides customers like SISW with a high-performing low-operating-cost solution.

“We expect these engines to remain in operation for 20 to 30 years,” said Josh Bartlome, executive director at SISW. “They’re big engines built for endurance.”

SISW estimates that within the next 20 years the facility will generate approximately \$36 million in revenue, netting about a third of that after costs and inflation. Creating a long-term revenue generator like this model used by SISW will allow the District to realize lower power costs.

“The Milner Butte Landfill project represents the future of distributed power,” said Chris Nagle, North American Regional Director for Siemens Gas Engines business. “This plant assists the local community with its power needs while being environmentally responsible. Siemens is proud to support SISW and Industrial-Irrigation Services with this project.”



Above: Siemens SGE-56HM engine provides customers like SISW with a high-performing low-operating-cost solution.

This press release and press picture are available at

www.siemens.com/press/PR2018100009PGEN

For further information on **Siemens Gas Engines**, please see:

<https://sie.ag/2MOzVRJ>

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