

LMOP Webinar on 9/28/21: Don't Waste the Heat!



Save the Date!

The U.S. EPA Landfill Methane Outreach Program (LMOP) is pleased to announce an upcoming webinar, **Don't Waste the Heat!**, on **Tuesday, September 28, 2021, from 4:00 – 5:00 PM (EDT)**. During this webinar, learn from two presentations about purposing waste heat from landfill gas (LFG) energy projects.

Heartland Water Technology has partnered with landfill operators to beneficially use waste heat from LFG energy plants to evaporate leachate in traditional CoVAP™ cogeneration applications. Captured LFG drives a combustion engine to generate electricity and the engine exhaust provides the thermal energy necessary to treat landfill leachate. Renewable energy project developer Energy Power Partners (EPP) will describe how landfill operators can reduce leachate management costs and LFG energy plant operators can improve system efficiency and generate additional value for their customers. In the presentation, Heartland and EPP will look at leachate flow rates, the relationship to engine sizing and LFG usage, improvements to overall system efficiency and the positive impacts which are possible with a CoVAP™ solution.

Utilizing an Organic Rankine Cycle (ORC) for LFG flare elimination is an often-overlooked method of converting LFG to power. ElectraTherm's presentation will discuss the equipment requirements and benefits of the ORC process specifically for LFG. Since common ORC systems operate off hot water the gas is consumed in a boiler to generate hot water for the ORC. The ORC is not in contact with the LFG so maintenance requirements and costs are very low. Boilers specifically designed for LFG applications are much less sensitive to impurities and contaminants than traditional power generation equipment such as engines and turbines. Controlled boiler combustion reduces emissions significantly over those of an open flare. Furthermore, some ORC technologies can operate at 10 percent rated output which allows them to operate through significant fluctuations in LFG quality and flow rate. Modular, scalable systems allow for even more swing in output. An example case using LMOP data will illustrate the capabilities of ORC systems coupled with LFG boilers.

There is no cost to participate in the webinar, but online registration is required – **register online** at zoomgov.com/webinar/register/WN_OHw4_27TvS6ugGupDnWrw to receive a confirmation email containing information on how to join the webinar. A time for questions from the audience will follow the presentations.

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