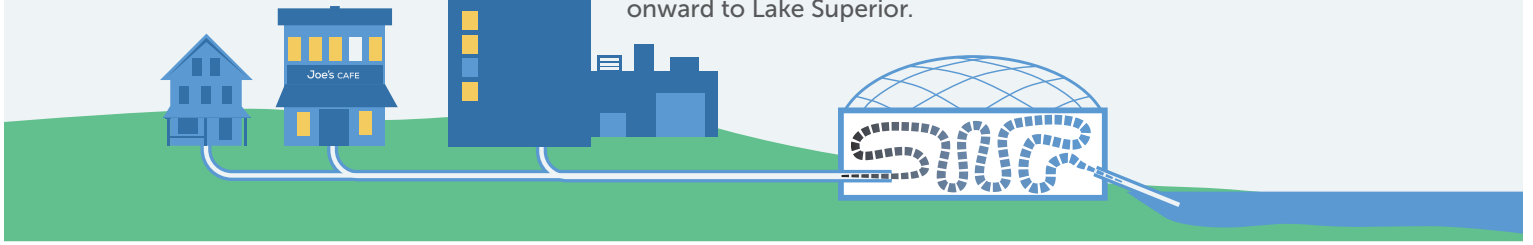


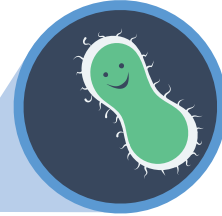
# Biogas

Harnessing Energy From Wastewater

Every day, **40 million gallons** of wastewater flow from homes, businesses, industries to the treatment plant, where the water is cleaned and sent to the St. Louis River, and then flows onward to Lake Superior.

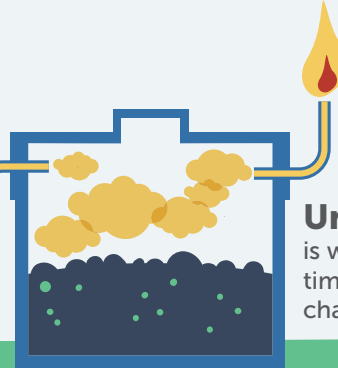
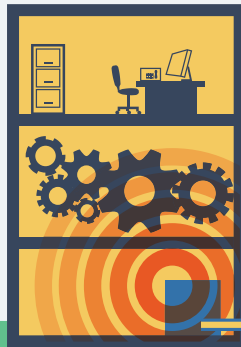


The solids removed from the process are further treated through **anaerobic digestion**. This provides big opportunities for WLSSD. Wastewater solids are broken down by helpful bacteria at high temperatures.

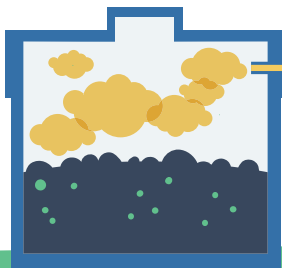


The bacteria generate heat that is **captured and reused** to maintain the tanks' high temperatures. They also produce a methane-rich biogas that can be **harnessed for energy**.

WLSSD uses some biogas to **heat buildings**, but isn't able to use it all.



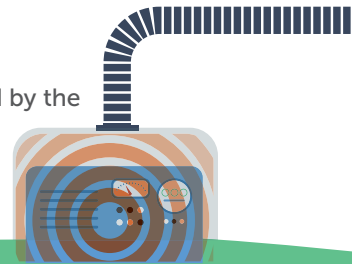
**Unused gas** is wasted. But the time has come to change all that!



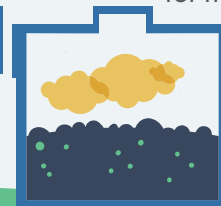
The gas will be cleaned and used in generators to **create electricity**.



The heat produced by the generators will be **recovered and reused**.

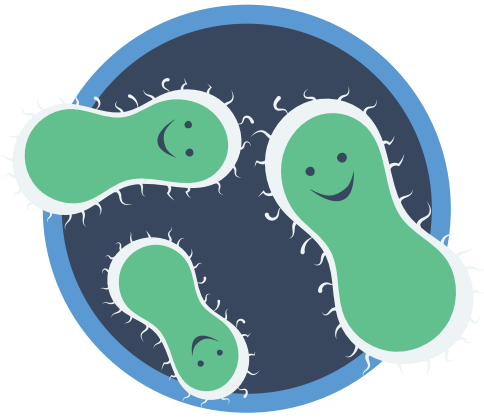


To make **even more biogas**, other wastes like food scraps and fats, oils and grease can be added to the tanks.



The tanks have plenty of room for more waste so **increased gas production** is possible with **existing equipment**.





WLSSD's **Combined Heat & Power Project** is truly sustainable; it effectively uses **existing infrastructure** to make the very most out of waste.



# Biogas

Harnessing Energy From Wastewater

Western Lake Superior Sanitary District  
Combined Heat & Power Project

