

# Klickitat PUD HW Hill Landfill Gas Generation Expansion Project

Roosevelt, WA



The power plant currently has five reciprocating piston engines which generate up to 27MW. The new project will add two landfill gas (LFG) fueled combustion turbine generators (CTGs), two heat recovery steam generators (HRSG) and one steam turbine and generator (STG). The CTGs will be rated at 10.2 MW nominal output each and the HRSGs will be rated at 32,800 pounds/hour of steam each at 650 psi and 750 degrees fahrenheit. The STG will be rated at 6 MW nominal output and receive the total steam flow from both HRSGs. The STG will exhaust to the Air Cooled Condenser (ACC). The new project will also add a state of the art cleaning and compression facility which cleans the “dirty” landfill gas to a level better than natural gas and prepares it for efficient use in the CTGs.

JH Kelly is the General Contractor for the project and will self-perform a majority of the work including: all mechanical equipment installation (including turbine assembly); piping installation; fire suppression systems; water treatment; electrical and instrumentation.

### Special points of interest:

- 27MW output
- Biomass methane fired