

Waste Heat to Power Eliminates Emissions

What is WHP?

Waste Heat to Power (WHP) is the process of using waste heat to generate electricity with no additional fuel, combustion or emissions.

Using waste heat...

US Industry
could generate

120,000 GWh/year
eliminating:

82,746,120
metric tons CO₂

Waste heat
streams are
generated by:



Oil & Gas
pipeline compressor stations,
engines, flares



Manufacturing
kilns, furnaces,
ovens, engines

US Class 8 Trucks
could generate

4,900 GWh/year
eliminating:

3,378,800
metric tons CO₂



US Passenger Vehicles
could generate

11,000 GWh/year
eliminating:

7,585,061
metric tons CO₂



Clean electricity generated from waste heat can displace power from sources that emit CO₂, eliminating the equivalent of:



11.4 million



US homes' electricity
for one year



380.2 million



gallons of gasoline



853.5 million

192.4 million



barrels of
oil consumed

711,300



passenger vehicles driven for one year

88.9 billion



pounds of
coal burned

Waste heat is valuable

- Increase energy efficiency
- Reduce fuel use
- Generate clean electricity
- Curb emissions

Sources: Based on US activity and estimates of 3 million class 8 trucks @ 2,182 driving hours and 256 million passenger vehicles @ 430 driving hours.

US EPA Greenhouse Gas Equivalencies Calculator
ICF ORNL Waste Heat to Power Market Assessment 2015

eere.energy.gov
fhwa.dot.gov

ridetowork.org
pewtrusts.org

trucking.org

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