

#### ABSTRACT OF THE DISCLOSURE

A waste carbonizing and energy utilizing system comprises a carbonizer, a gasifying fusion furnace, and a power generation plant for utilizing heat energy. The carbonizer 20 carbonizes waste to generate charcoal. The gasifying fusion furnace incinerates the charcoal, and then the heat generated by the incineration of the charcoal is used for operation of the power generation plant. Exhaust heat from the power generation plant is recycled to the carbonizer.

Figure 1