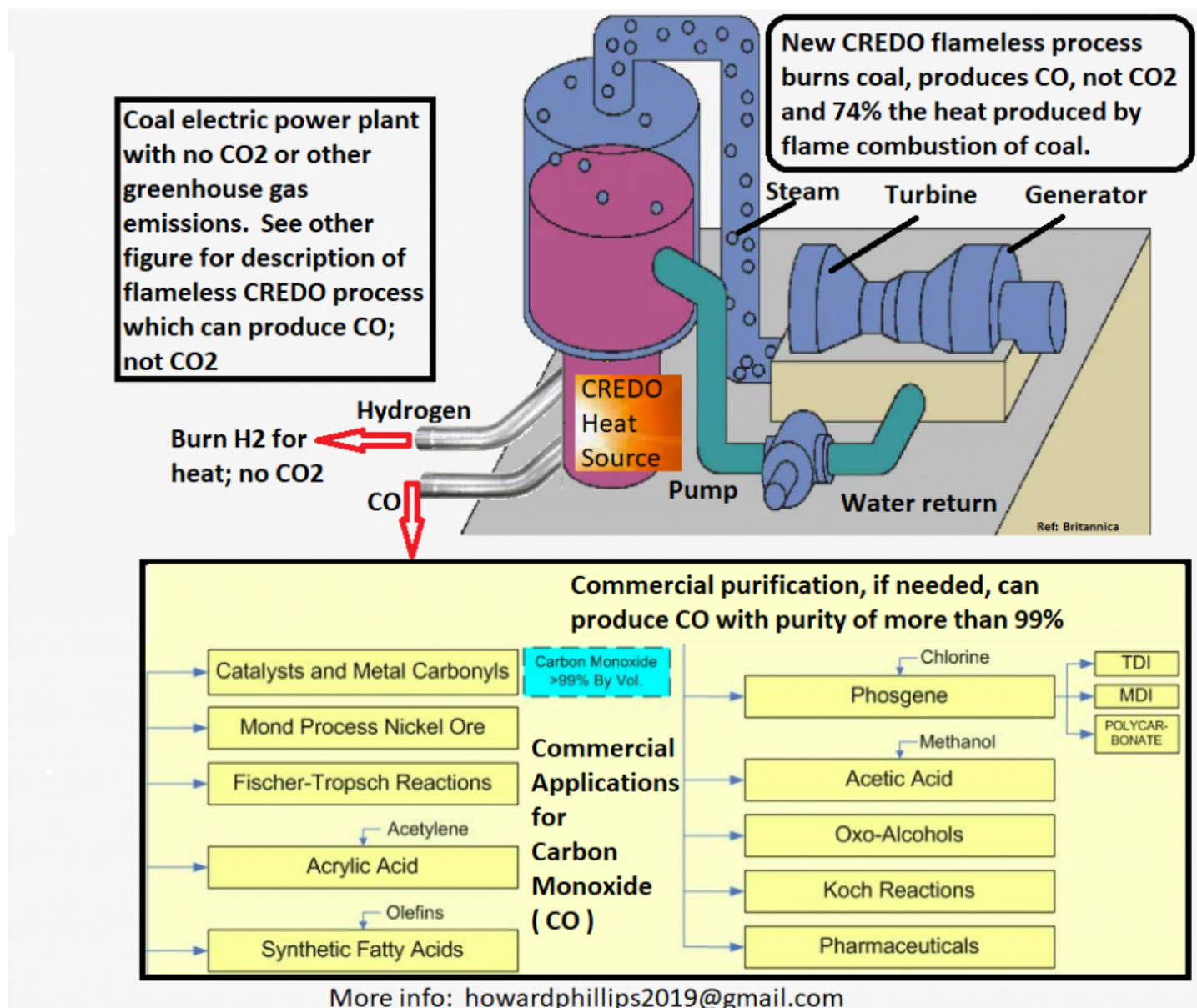


Coal combustion without producing Carbon Dioxide

Use of coal to produce heat for large power plants, with virtually no CO₂ production



Hugo, Oklahoma Jan 27, 2023 (Issuewire.com) - Coal can be used to produce heat for large power plants, with virtually no CO₂ production, using the CREDO process for the combustion of coal, said Howard Phillips, the General Manager of Phillips Export.

The new process, called CREDO, can be pressurized for operation at high temperatures. CREDO is defined as Coal Rich Electrolytic Depleted Oxygen process. The process can fully oxidize coal (flameless combustion/oxidation) and produce no greenhouse gas.

At a temperature of 2000C, if coal is oxidized to carbon monoxide (CO) using the CREDO process, the heat output can be about 74% of the heat that would be produced by the flame oxidation of the same amount of coal.

The CREDO coal combustion process does not require a fire box and does not produce fly ash or CO₂ or other greenhouse gas, yet this process can produce large amounts of heat at elevated temperatures. If this novel process is used, the heat output can be about 74% the heat that would be produced by the flame combustion/oxidation of the same amount of coal to produce CO₂.

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