

V. ABSTRACT

TITLE OF INVENTION: Process to Recover Carbon Emissions and Other Greenhouse Gases from Power Plants and other Processes, including Combustion.

5.1 The invented process shall be named Process to Recover Carbon Emissions and Other Greenhouse Gases from Power Plants and other Processes, including Combustion. This invention will enable the recovery of Carbon Dioxide, Carbon Monoxide and other gaseous species from Exhaust Gas of Power Plants and other Processes, and convert same into purified useful commodities, irrespective of commercial value.

5.2 The process can both be retrofitted or designed, erected and commissioned as part of a new power plant design to remove any quantity of Carbon compound gases and other species as required. The process separates the species, prior to purifying same, and thereafter removes unwanted contaminants before packing the commodity in a format that is acceptable to the end client. Particulate removed exhaust gases are sulphur stripped before dehydration and subsequently pressured. The pressurised gases are separated using adsorption techniques to yield moderately high purity Carbon compound gases and other species, before further separation yet again to yield very high purity gases. The purified gases may be physically transformed to suit the end purpose or application as desired. The invention is not limited to power plant technology or scale. *(See Figures 1 and 2 on pages 1/2 and 2/2 of Drawings: Left and right elevation views of a plant based on this process.)*



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