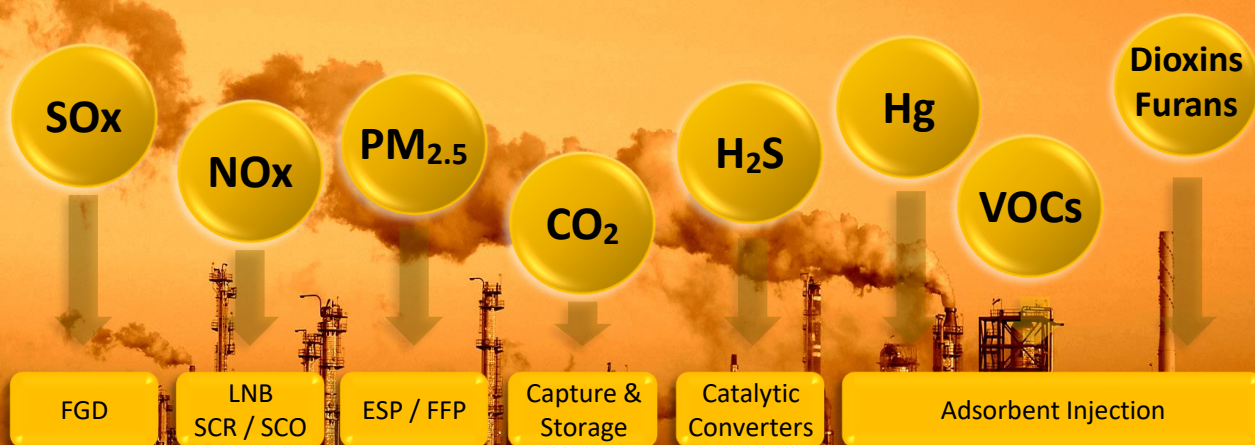
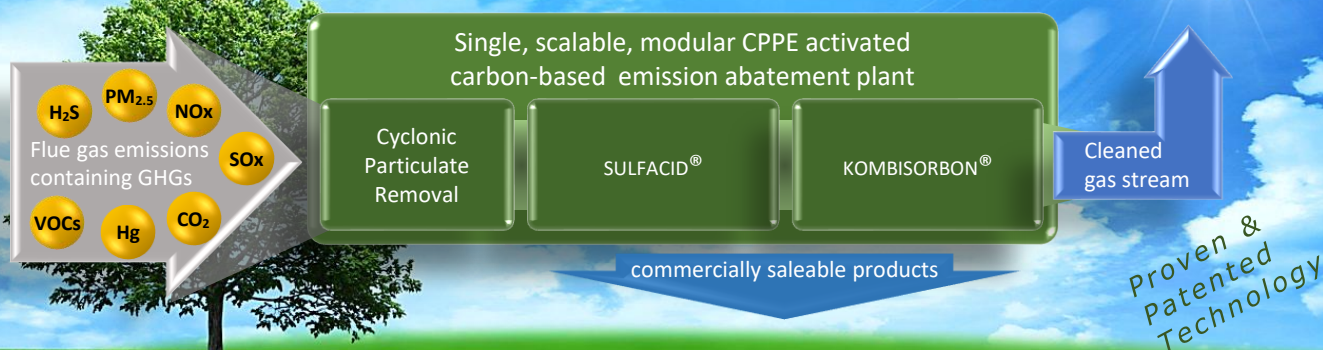


When you need to treat emissions ...



Multiple, separate technologies and plants for the partial abatement of flue gas emissions adding unnecessary capital overhead and life cycle operating costs

... why use multiple technologies, when you can use just one technology?



Reducing flue gas emissions today and into the future to meet tomorrow's regulations, while converting costly waste streams into commercial value-added products

Simple, Reliable, and Sustainable Abatement of Emissions

SO_x – Sulphur Oxides | NO_x – Nitrogen Oxides | CO₂ – Carbon Dioxide | PM_{2.5} – Particulate Matter 2.5 micron | H₂S – Hydrogen Sulphide | Hg – Mercury | VOCs – Volatile Organic Compounds
GHG – Green House Gas | SCR – Selective Catalytic Reduction | SCO – Selective Catalytic Oxidation | ESP – Electrostatic Precipitator | FFP – Fabric Filter Plant | LNB – Low NO_x Burner | FGD – Flue Gas Desulphurisation

Carbon Process & Plant Engineering S.A.
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Tomorrow's emission technology today



CPPE *Multi-Pollutant Emissions Abatement Technology*

A proven activated-carbon technology for the concurrent removal of sulphur dioxide (SO_x), nitrous oxide (NO_x), carbon dioxide (CO₂), hydrogen sulphide (H₂S), heavy metals, dioxins and furans from industrial flue gasses.



SULFACID® for the conversion of SO_x into H₂SO₄ | KOMBISORBON® removal of Mercury, Cadmium and Dioxins | catalytic CO₂ / NO_x abatement processes for the production of fertilisers.

- Excellent **SO_x / H₂S / NO_x / Hg** scrubbing
- Conversion of **CO₂** into fertiliser
- **No limestone** requirement
- **No addition of chemical reagent** (water only)
- Market ready **saleable product** (H₂SO₄)
- **Lower operating** costs
- **Lower capital expenditure** than for other multi-pollutant systems
- **Modular technology** allows for progressive roll-out and re-use from a decommissioned site
- **Configurable** to different site footprints

A solution enabling current and future compliance with the South African National Environmental Management: Air Quality Act No. 39 of 2004.

The South African Minimum Emissions Standards (MES) requires industrial, chemical and electrical power plants to comply with the MES by April 2020, and thus adopt an effective and efficient solution to clean their flue gas streams. The CPPE activated carbon process provides a solution that is both simple, reliable and sustainable.

Flue gas desulphurisation is the industry standard for SO_x emissions, but it also produces additional CO_x. Multi-pollutant systems that address both SO_x and NO_x are available, but usually very expensive and complicated to operate.

CPPE has over 90 years combined experience with over 100 installed reference sites in various industries globally.

EPCM Global Engineering is CPPE's appointed agent in Southern Africa.



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