



Adsorption Technology

Regenerable and non-regenerable adsorption are used for a variety of component removal steps throughout the entire Oil & Gas as well as Petrochemical industry, Upstream, Midstream and Downstream. Such units are typically installed to ensure that a certain specification is met, to protect downstream catalysts and equipment (e.g. cryogenic heat exchanger in an LNG plant), to prevent corrosion, hydrates, salt formation, etc.

A few examples are:-

- Regenerable dehydration with molecular sieves applied on platforms, gas plants, LNG, ASU's, refineries and petrochemical plants in gas as well as liquid phase streams
- Sulphur and Sulphur species removal in non-regenerable (e.g. by ZnO, promoted alumina's, etc.) as well as regenerable systems (by molecular sieves) on platforms, gas plants, refineries (e.g. H₂U), gas to liquids plants and petrochemical plants
- Hydrocarbon dew pointing using silicagel in gas plants
- Mercury removal on platforms, gas plants, LNG, refineries and petrochemical plants in gas as well as liquid phase streams
- Chloride and Fluoride removal in refineries and petrochemical plants
- Arsine removal in petrochemical plants

NAPTA can provide assistance during design, installation, operation and troubleshooting of these installations. In the project phase, NAPTA can support in technology selection. NAPTA's expertise covers making designs of such units such that these can be used as benchmark for Vendor proposals. NAPTA experts can conduct a site visit for better understanding of site-specific issues; and training of local operational and technical staff.

The provided services can help you to:-

- Ensure a proposed design will be able to meet the required specification and lifetime

- Increase unit capacity through better understanding of the operation of the unit
- Enhance the reliability of your adsorption unit as a result of targeting identified issues



For more information, please connect with NAPTA's Adsorption Technology SME Mr Ruud Herold via herein below contact details.

Contact

NAPTA's New Business Development team, NAPTA International B.V., The Hague, the Netherlands

Telefax +31 (0)70 211 1312

Mobile +31 (0)6 2819 0101

Email info@napta.co