Norsk

The EnPro Process

The compelling need to reduce CO2 emissions has lead to many creative schemes to accomplish CO2 emission reduction. For economic or social reasons, most are simply not feasible. However, EnPro's CO2 emission reduction technology is a monumental breakthrough, elegant in its simplicity, effective in practice. Unlike any other solution proposed thus far, EnPro's process has some important benefits:

- Sequestration of CO2 emissions by over 95%.
- Non-ammonia process for production of high quality 'green' soda ash (Na2CO3) – a stable industrial raw material of commercial value; low energy consumption – current estimates indicate energy consumption of less than half that of the current processes for production of soda ash.
- New low energy non-electrolysis process for production of caustic soda (NaOH).
- Technology is flexible enough for the plant to produce either soda ash or sodium hydroxide.

The EnPro process at a glance

EnPro holds the exclusive global user rights to proprietary CO2 emission reduction technology, which is based on chemical reactions used to consume CO2 from exhaust gases. In general terms, the EnPro process removes CO2 by chemically binding it to the salt in seawater. Valuable end-products such as sodium carbonate (soda ash) and/or sodium bicarbonate (baking soda) are extracted from the process. This is how it works:

- Salt water, together with salt, goes into the production of sodium hydroxide solution.
- CO2 is sparged into the sodium hydroxide solution in a so-called Carbonation module where chemical reactions facilitate a binding of the CO2 to the sodium in the solution.

- This results in sodium carbonate, which further processed into sodium carbonate (soda ash).
- The by-products are hydrocloric acid and hypochlorite.

- History
- Our Goals
- Technology
- Employees
- Market

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About EnPro

EnPro AS is a Norwegian environmental technology company with a proven revolutionary new technology in producing stable minerals, by using CO_2 waste as a key raw material, with large CO_2 reduction impact.

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Sitemap

- Home
- About us
- News

- Projects
- Partners
- Investor
- Contact us