



### HIGH QUALITY PRODUCTS

- + High  $P_2O_5$  recovery
- + Low cadmium in the product acid
- + Low  $P_2O_5$  content in the phosphogypsum suitable for cement and building applications
- + Acid strength is typically 32-34%  $P_2O_5$
- + Typical  $P_2O_5$  recovery efficiency is 97%



### ECONOMICAL PROCESS

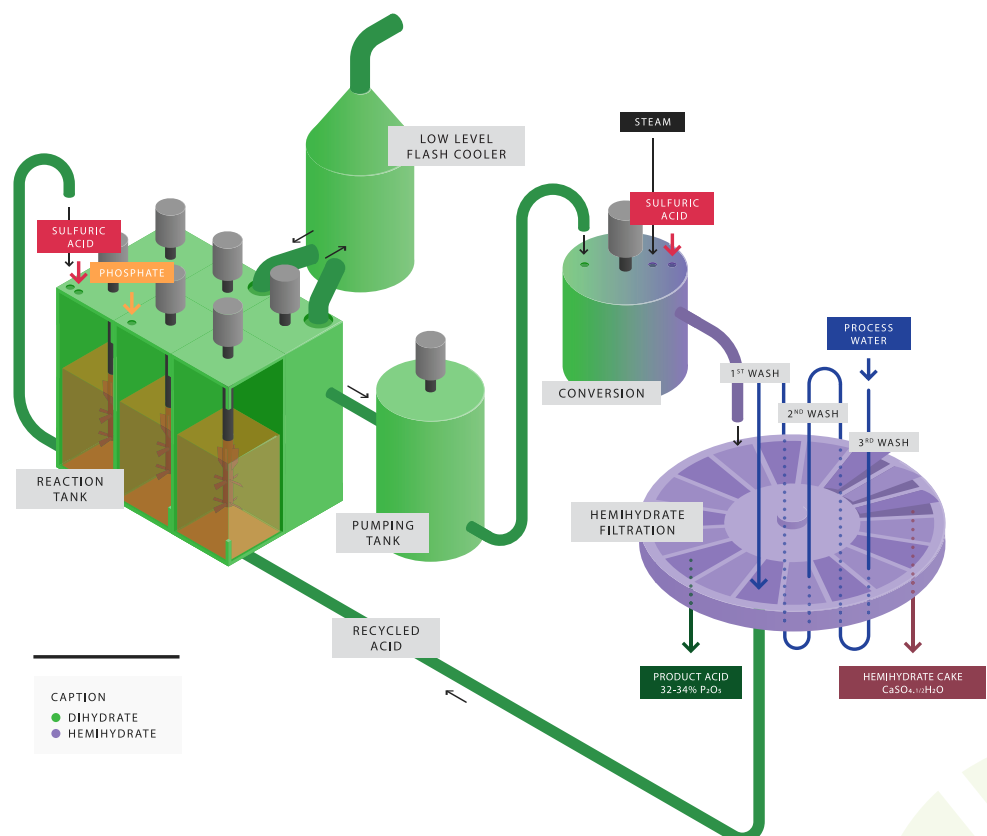
- + Low investment cost especially in case of revamping of an existing Dihydrate plant
- + Limited grinding of the rock
- + Self-drying phosphogypsum with a final moisture around 10%



### RECOMMENDED FOR LOCATIONS

- + Where phosphate rock price is rather medium to high
- + Where energy cost is rather high (steam and electricity)
- + Where gypsum disposal is limited and/or where a potential market for gypsum has been identified (cement or building applications)
- + To increase production capacity by 20% with limited changes in an existing Dihydrate plant

## DA-HF PROCESS



# PRAYON TECHNOLOGIES PROCESSES & SERVICES RANGE

## PHOSPHORIC ACID PRODUCTION

- + Dihydrate Process (DH)
- + Hemihydrate Process (HH)
- + Di-Attack-Hemihydrate-Filtration Process (DA-HF)
- + Central-Prayon Process (CPP)
- + Hemihydrate - Dihydrate Process (HDH)

## PHOSPHORIC ACID TREATMENT

- + Desulfation (SO<sub>2</sub>)
- + Desarseniation (As)
- + Decadmiation (Cd)
- + Defluorination (F)

## PURIFICATION

- + PUMA Membrane Purification Process
- + Ion Exchange Resins Process

## DCP PRODUCTION

- + HCl-based EcoPhos Process
- + H<sub>2</sub>SO<sub>4</sub>-based GetMoreP Process

## MCP PRODUCTION

- + From Pre-Treated Phosphoric Acid
- + From Di-Calcium Phosphate

## TECHNOLOGIES ASSOCIATED TO PHOSPHORIC ACID PRODUCTION

- + Concentration Process
- + Gas Scrubbing Process
- + Fluorine Recovery Process

## SERVICES

- + Licensing
- + Lab & Pilot tests
- + Semi Industrial validation
- + Training
- + Site Services
- + P2Gether Plant Performance Optimization
- + Technical surveys

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