Ash2Phos

Clean commercial phosphorus products from sludge ash





Process characteristics

• Clean well known phosphorus products (Cd< 1 mg/kg P)

HELSINKI

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- Input chemicals become part of products
- Products effective in their applications
- Simple and robust process
- Low energy consumption
- Can use waste acid
- Recovery of iron and aluminium separately

Products from the process

- Phosphorus
 - Calcium phosphate (feed phosphates)
 - Superphosphates
 - Ammonium phosphate (fertilizer)
- Precipitation chemicals (iron chloride & aluminum sulfate)
- Heavy metal (disposal)
- Undissolved ash



European

Sustainable

Phosphorus

Conference

Successful industrial pilot trails









Ash2Phos – activities to full scale plant



- 30 000 ton ash per year plant in Sweden
 - Pilot tests for final design ٠
 - Basic engineering (COWI) •
 - Ash supply contract •
 - Permit application ٠
 - Detailed engineering, construction, commissioning and start up •
- Marketing and negotiation agreement for Ash2Phos projects in Germany



