

The RECOPHOS-Process P4 from Sewage Sludge Ashes

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▲ICL P – an essential Element





AICL Phosphate Reserves & Production

- Estimated Phosphate Reserves: appr. 71 bill. Tons
- Total Production: appr. 230 mill. Tons per Year
- Estimated secured Supply Time: > 300 years
- But Europe has lack of Phosphate Resources, and therefore needs Imports up to 10 mill. Tons





Where needs take us

AICL Phosphate Rock Deposits

Figure 2: World rock phosphate mine reserves 2005. (Data source: Röhling, 2007.)





AICL P4 Recycling Potential

P-Recycling Potential of Germany up to

19,000t/a,

Of which > 50% is already economically interesting and growing.

P-Recycling is requested by the EU and German Government

Several Recycling Processes in Test & Development

Other European Countries in similar situation or even advanced







AICL The RECOPHOS-Process



AICL Phosphorus for many Applications

Phosphoric acid



Oral Care









- Phosphoric Acid (TG, FG, EG)
- FG/TG-Phosphates (Na, K, Ca, NH4, Mg)
- Phosphorus Chlorides (PCI3, POCI3, PCI5)
- Phosphorus Pentasulfide (P2S5)

Phosphorus Oxides (P2O5, P2O3)







AICL Phosphorus Recycling

Thank you

