



## FLANDERS CLEANTECH INTERNATIONALISATION AWARDS



### NUTRIENTS RECOVERY SYSTEMS

**INTERNATIONAL SUSTAINABLE IMPACT :** Phosphate is a finite resource but worldwide the resource is needed as an important component of fertilizers. On the other hand in waste water treatment plants all over the world, to avoid eutrophication, phosphorus has to be precipitated. The actual technology binds phosphorus on Fe- or Al-salts, it precipitates into the sludge where it is hard to be recovered. The NuReSys technology, by using Magnesium chloride, allows to make phosphorus and nitrogen react with magnesium and thus form magnesium-ammonium-phosphate under crystalline form. These crystals can easily be harvested, they are 99% pure and can be reused as fertilizer.

**ABILITY TO EXECUTE IN FUTURE – ENABLERS & INHIBITORS :** There is more and more interest for phosphate recovery worldwide, the USA is an interesting market, Asia is immersing. It is a matter of marketing the product and come under the radar of the low hanging fruits (= higher volumes and high concentrations of ortho phosphate). An inhibitor for the moment is the legal framework, the acceptance of “fertilizer recovered from waste water”. The recovered product is even more pure than the mined phosphate (which is contaminated with with cadmium). In Europe we note that in the new fertilizer regulations will be adapted for acceptance this recovered organo-mineral fertilizers.

### INTERNATIONAL MARKET TRACTION

#### *Turnover – in EURO*

Total turnover (EURO) in 2013	175.000
Total turnover (EURO) in 2014	240.000
Total turnover (EURO) in 2015	830.000

#### *Geographical market(s) – in %*

- Belgium	14%
- Europe EU – neighbouring countries (GE, FR, LU, NL, UK)	86%

### CONTACT

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More information: <http://www.nuresys.be/>