Land meets ocean



Sammen om et bedre miljø

Recycling of phosphorus

Morten Finborud Mng. Dir. Hias IKS



New wastewater treatment at Hias IKS



- The company is owned by 4 municipalities around Hamar to:
 - Produce and distribute drinking water
 - Collect and treat wastewater from households and food industry
 - Develop and sell products resulting from the treatment of wastewater
- We have developed a patented a biological method that allows us to:
 - Stop using precipitation chemicals to bind phosphorus with metal salts
 - Circulate 95 % of the incoming phosphorus
 - Around 50 % as struvite
 - 45 % + as plant available in our biomass treated with THP
- But is there a market for these products (yet) ?



The basement of the UN Sustainability goals





- 6: Clean Water and sanitation
- 13: Climate action
- 14: Life below water
- 15: Life on land

New markets depend on new regulation?





Horizon 2020: «Wider Uptake»



- Water smart solutions i 5 countries
- Symbiosis between WW facilities and private sector
- Document effects against the UN Sustainability Goals
- Pinpoint regulation needed to promote a circular economy

Our part:

Finish implementation of the Hias process as a demonstration of what we can achieve.

Together with Sirkula IKS demonstrate how we can replace peat/ turf in commercial soil products for sale

• Develop markets, products and value chains for retrieved phosphorus from different sources.