SaltGae

algae to treat saline wastewater

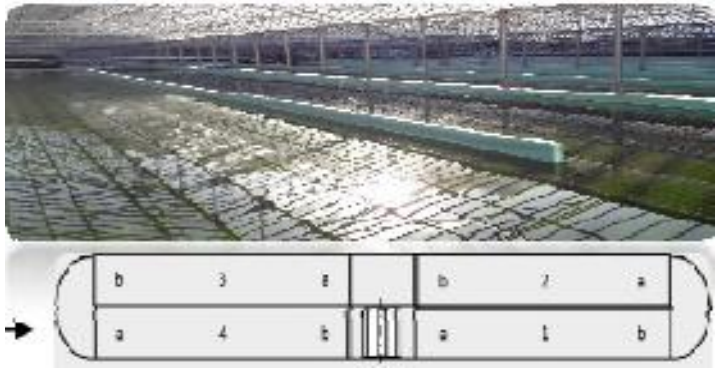
H2020-Water-1b-2015

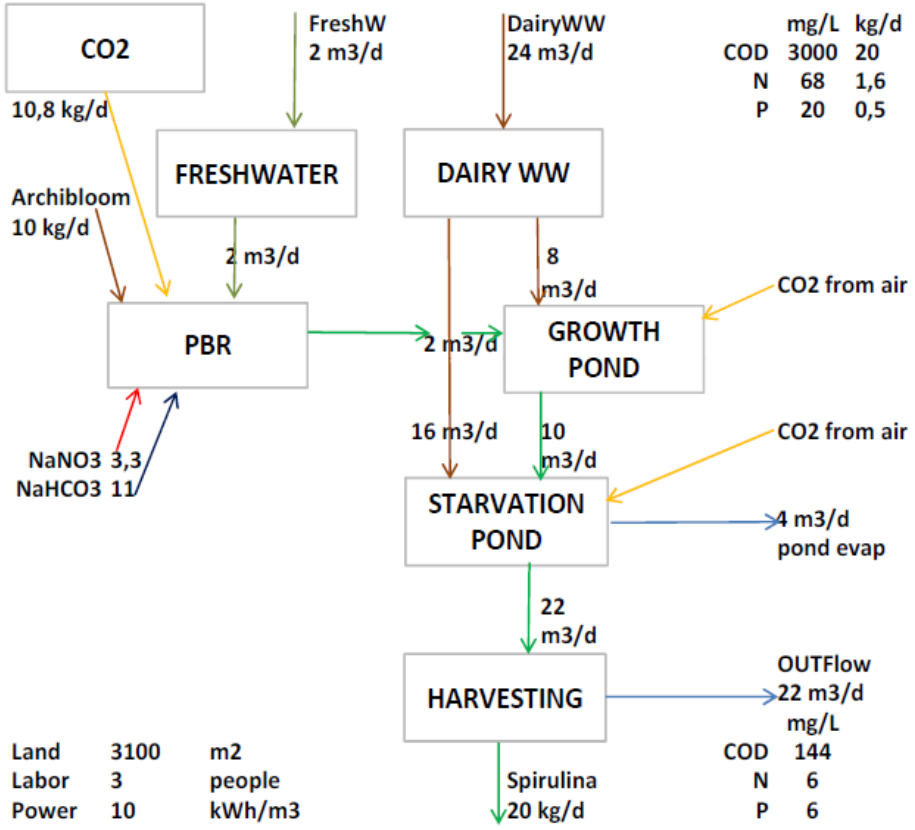
This project has received funding from the European Union's Horizon 2020 Innovation Action programme WATER under grant agreement no 689785

How to turn wastewater from a liability to a useful resource

SaltGae

- **Camporosso demo**
- Algae photosynthetic field : 2x8000 GWP® pbrs for inoculum, 530 m2 growth RWP, 1280 m2 starvation RWP.
- Dairy washing water managed as a **byproduct** not as waste
- Technology applicable to closely located facilities
- Biomass (Spirulina dry powder) used **as feed**





Regulatory:

- the **byproduct** originates from a process, of which it forms integral part, and whose primary purpose is not the production of that byproduct
- the byproduct shall be **utilized**
- the substance can be used **directly** without any further treatment other than usual industrial practice
- the substance meets, for the specific use, all relevant requirements regarding the protection of **health and the environment** and will not lead to negative impacts on the environment or human health

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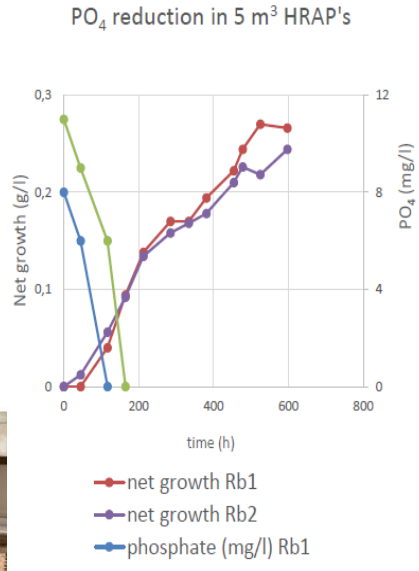
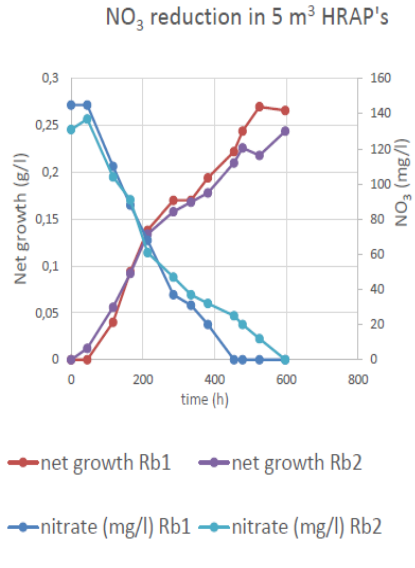
Arava demo site	Capacity	Biomass production	Species	Operation mode
Indoor aquaculture	30 m^3	2 ton/year	*Lates calcarifer* (Barramundi)	continuous, year around
Indoor algae PBRs	0.5 m^3	Algae inoculum	Spirulina	continuous, year around
Outdoor HRAPs	163 m^3	300 kgDW/month	Spirulina	batch/cont., year around

Flow chart of fish wastewater use and algae production

Phosphate and nitrate reduction in fish wastewater by algae growth





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