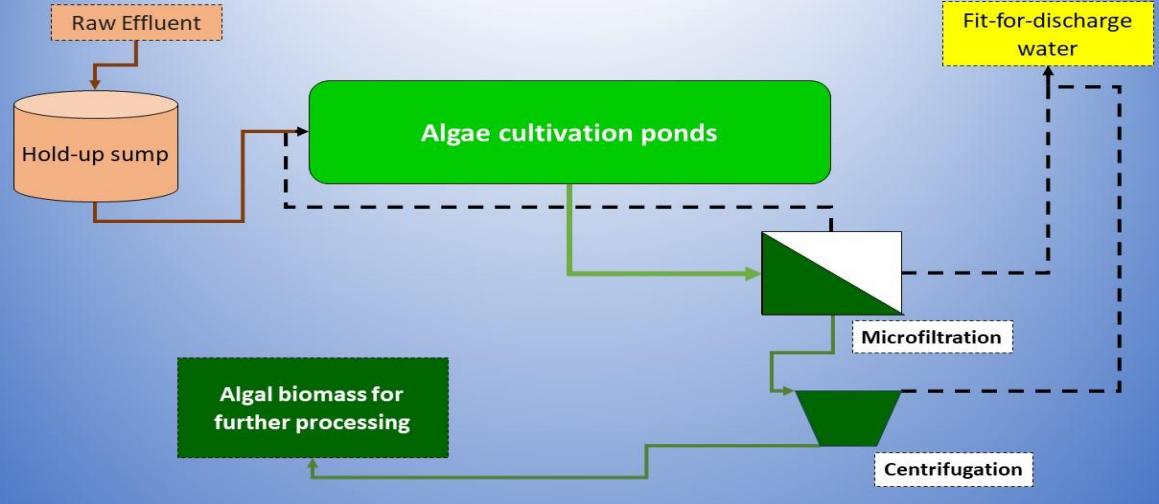


Microalgae-based process for Sustainable Effluent Treatment



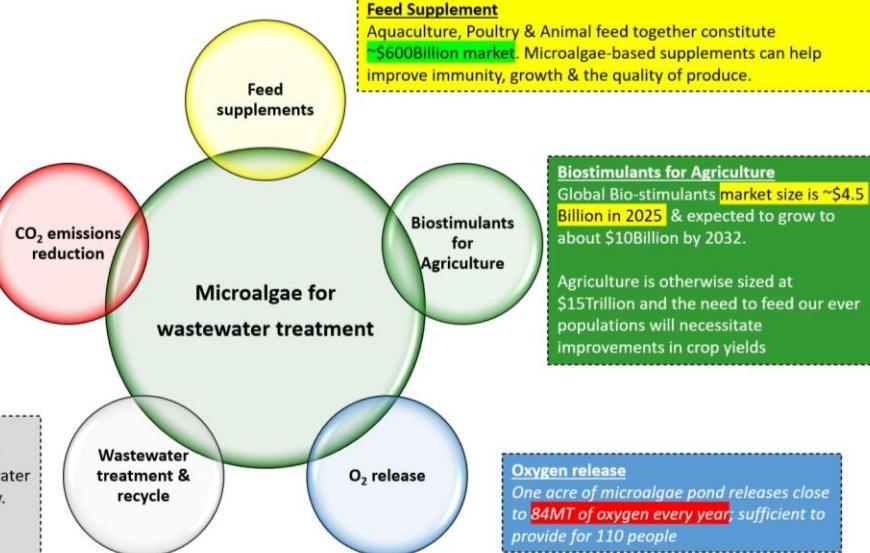
[Process Video](#)



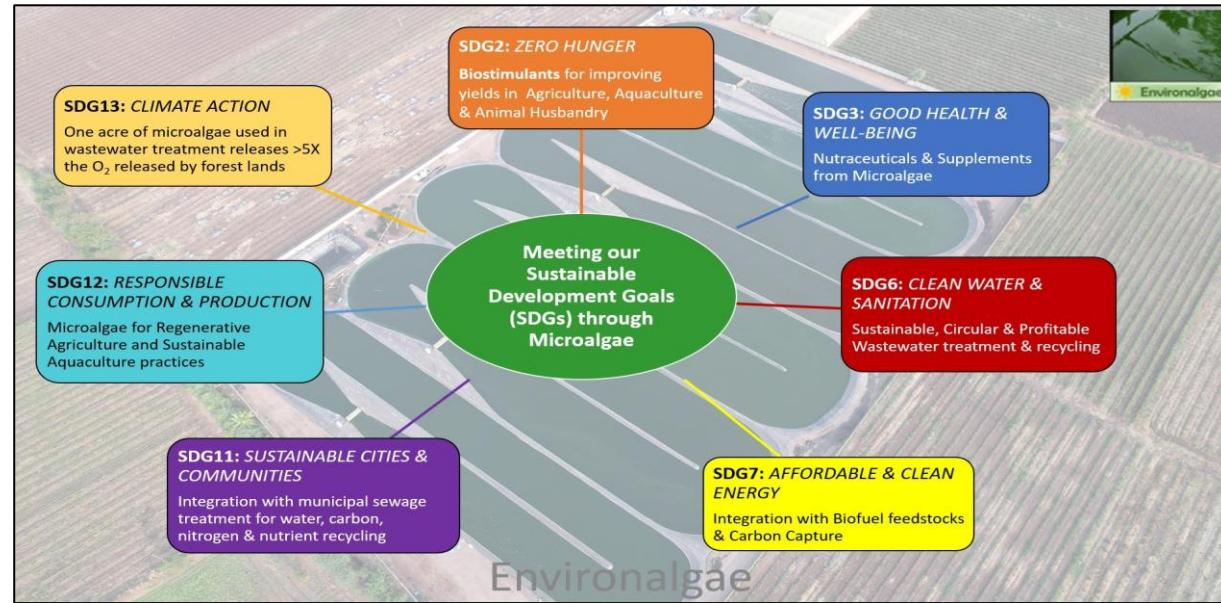
Circularity

Microalgae at the multi-nodal intersection of Environment, Water, Agriculture & Aquaculture

Net-Zero targets
Wastewater treatment, discharge of untreated wastewater, Agriculture & Aquaculture together contribute to over 21% of global GHG emissions. This technology, by using natural sunlight, can help reduce carbon emissions from all these sectors. Furthermore, the global Carbon Market is over \$1,000 Billion in size.



Wastewater treatment
Global wastewater treatment market size is \$375 Billion. However, about 80% of wastewater is either left untreated or is treated partially.



Sustainability Impact



Profitability

Techno-Economics & Sustainability benefits from investing on a microalgae-based ETP

Capacity of plant	300 KLD ETP	3,000 KLD CETP	10 MLD STP	150 MLD STP
COD assumed, mg/L	4,500	4,500	750	750
Ammoniacal-N assumed, mg/L	100	100	40	40
Land required, acres	2.8	28	19	278
Algae [#] generation, MT/year	928	9,281	6,118	92,813
Payback on CAPEX, years	2.5	0.9	0.7	0.5
Min. RO water generated KLD	184	1841	8,500	127,000
CO ₂ Eq. Reduction MT/year	9,517	95,169	62,996	944,933
O ₂ released MT/year	653	6,535	4,357	65,350