



VALORSABIO.COM

Engineering Innovation

BIO-SUN™

INNOVATIVE WATER RECLAMATION and REUSE

Combined with Carbon Capture and energy production

Bio- Sun operates with Sun light in a enhanced photosynthetic process,

Captures CO₂ and release Oxygen.

The water treated with BIO-SUN is supersaturated in pure Oxygen,



BIO-SUN solution goes beyond the traditional water treatment concept : BIO-SUN uses the new GREENLINE photoreactors for a complete water reclamation.

With the GREENLINE, the tertiary wastewater treatment can achieve high standards, resulting in a water quality equivalent or better to a natural non polluted resource, such as a river, a lake or a water spring.

Nitrogen elimination from wastewater	% elimination
Tertiary sand / UF Filtration	20 -40%
Air Stripping & Electrodialysis	40-60%
RO- Reverse Osmosis	80-90 %
GREENLINE / BIO-SUN	> 98 %
MG-BAG / BIO-SUN	95- 98%

Phosphorous elimination from wastewater	% elimination
Tertiary biological removal	60-90%
Chemical precipitation	70- 90%
Acrivated Carbon & filtration	30-70%
RO- Reverse Osmosis	80-100 %
GREENLINE / BIO-SUN	> 98 %
MG-BAG / BIO-SUN	98- 100%

BIO-SUN™

BIO-SUN will produce quality raw source water ready for final potable water production, at very competitive cost:

Less than \$ 0.01 / m³.

BIO-SUN will produce in addition microalgae, very useful for biogas, bio-ethanol, biodiesel or biofuels, fine chemicals extraction.

BIO-SUN will recover almost 100% the water volume from wastewater.

Competing systems such as RO have usually a low recovery : 60-70% only.