CLEAN ENERGY ESB

CARBON BIOCAPTURE TECHNOLOGY

WORLD LEADER IN GREEN TECHNOLOGY

CLEAN ENERGY ESB

- Clean Energy seeks to reduce the carbon footprint and promotes sustainability in the community.
- The first operational biorefinery in the world, directly connected to a fossil- fuel thermal power plant and a cement plant.
- Negative Emissions Technology (NET) based on proprietary photobioreactor (PBR) design and patented microlgae management systems.
- Highly innovative systems in carbon sequestration, while producing usable biomass, oxygen and clean water.

CIRCULAR ECONOMY

CLEAN ENERGY ESB

Stage 2

Biological Sequestration CO2

Stage 3

Biomass Production

Stage 6

Biomass derivates

Stage 4

Oxygen Production

Stage 5

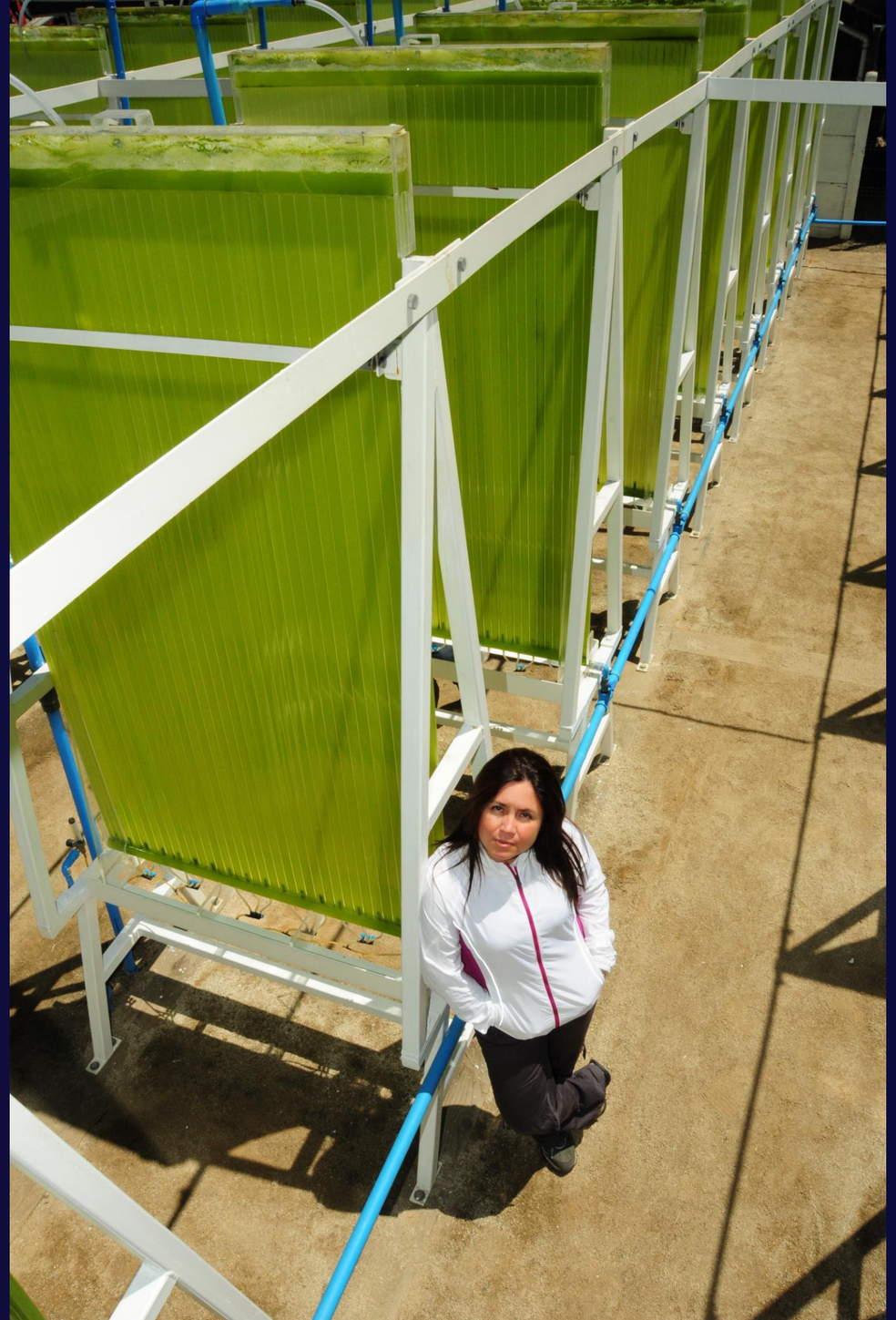
Purified water release

CLEAN ENERGY ESB

TECHNOLOGY ADVANTAGES

- Capture up to 86% of CO2 (Carbon emission sequestration)
- Substantial reduction of POP’s, NOx (Up to 92%), SOx (100%), CH4 and other gases Processes industrial wastewater
- Low operating and maintenance costs
- Modular technology/scalable results
- Hurricane and earthquake resistant certificated by University of Miami
- Adaptable technology to different contaminated environments
- Highly efficient production of Biomass
- Real time monitoring systems

CLEAN ENERGY ESB



CLEAN ENERGY ESB

INDUSTRY BENEFITS

CARBON NEGATIVE TECHNOLOGY

Beyond net zero carbon

EFFLUENTS PURIFICATION

When needed – phosphates, nitrates and sulphates reduction

COMPETITIVE INVESTMENT

ROI POSITIVE

CORPORATE IMAGE

Branding Recognition

CLEAN ENERGY ESB

URBAN CAPTURE

CARBON SEQUESTRATION

- Sequesters gas emissions from the atmosphere as an autonomous unit.
- Sequesters emissions from urban installations Hospitals, Schools, Buildings, Restaurants, Hotels, etc.
- 2 Urban captures can reduce the emissions of a building with 1,200 people per day.
- Negative Emissions Technology (NET)

CLEAN ENERGY ESB

VALIDATED TECHNOLOGY	15 years research and 10 years in operation in AES Corp and 2 years in Argos Group.
COMMERCIAL PARTNERS	ARGOS, enap refinerías, AES the power of being global, PEMEX, enel
PATENTS	Certified in 38 countries
STRATEGIC ALLIANCES	Fraunhofer, LNEG, Qualitek Qualitek Consultants, Inc Germany Portugal USA
LEGAL PARTNERS	eproint, JOHANSSON & LANGLOIS

OUR UNIQUE ADVANTAGES

CLEAN ENERGY ESB

OTHER BIOMASS SYSTEMS	Use modified strains or strain collections, safety hazards (GMO)	Use clean gases or ponds (additional costs)	Use up to 2,500 times the energy produced	Open ponds exposed to invasive species	Operating under highly restricted conditions
CLEAN ENERGY EBS	**Adaptation and cultivation of native microalgae, without genetic manipulation**	**Use raw gas, without fractionation or pre-treatment**	Positive Energy Balance. It does not use electricity	**Closed System ensures production and safety.**	**Flexible/ adaptable in new polluting environments**

CLEAN ENERGY ESB

HELPING COMPANIES REDUCE EMISSIONS THROUGH CARBON BIOCAPTURE TECHNOLOGY