03 GREENTECH WATER
Reuse Industrial Sustainable at Ceará

01 BRIEF DESCRIPTION OF THE PROJECT

The project Greentech Água proposes the implementation of advanced systems of treatment and reuse of water in industrial parks in the state of Ceará. Through of sustainable technologies and smart, the project aims to reduce the consumption of potable water, increase the water efficiency in industries and mitigate the environmental impacts associated with excessive use

02 JUSTIFICATION AND OPPORTUNITY

The sustainability in the use of water has become a strategic need in the face of climate variability, of rising costs with supply and of pressure for more responsible practices in the productive sector.

The state of Ceará has several industries registered distributed in poles such as Maracanaú, Pecém, Sobral, Juazeiro of Norte and Fortaleza. This scenario represents a great opportunity to the adoption of systems of reuse of water as a way of reducing the dependence on traditional water sources, reducing operational costs with consumption and xml-p meet the requirements legal and criteria environmental of certifications ESG and strengthen the competitiveness of industries from Ceará in markets that value sustainability

It is necessary to comment that already exists a pre-contract of supply of water of reuse, that is investing in the production of green hydrogen in the State, from from from sustainable sources. The water from reuse will be supplied by one of the companies that Cagece has a shareholding , generating the Project H2 Cumbuco, which consists of production of ammonia green for export with focus on the European and Asian markets, with capacity of 2GW in its entirety .

The viability of reuse water industrial in Ceará is, therefore, not only necessary, but strategic, economic and environmentally intelligent.

03 INVESTMENT NEEDED

- **Investment estimated**: R$ 15 million;
- **Scope initial**: Installation of pilot units at three industrial hubs (Maracanaú, Pecém and Juazeiro do Norte);
- **Technologies involved**: MBR (bioreactors with membranes), reverse osmosis , systems of monitoring and IoT for control in time real.

04 EXPECTED RETURN

- **Savings from to 60%** in consumption from water drinking by industry served;
- **Payback estimated at up to 5 years;**
- **Reduction of operating costs** with water and effluents;
- **Strengthening of image institutional** of industries with practices ESG (Environmental, Social and Governance).

05 SOCIAL AND ENVIRONMENTAL IMPACT

- Generation of jobs direct and indirect in the areas of engineering environmental, maintenance and operation of the systems;
- Dissemination of culture of sustainability in the sector industrial;
- Generate value added to products of export;
- Reduction of pressure on sources water natural and reservoirs public
- Contribution to the security water of the region;
- Reduction of discharge of effluents into the environment environment, preserving ecosystems local.

CONTACTS

More information about this and other projects:
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