

THE FUTURE IS TO INVEST ————— IN RIO GRANDE DO SUL

BOOK OF OPPORTUNITIES

AND INVESTMENTS IN ENERGY TRANSITION

// NOVEMBER 2025



»»»invest.RS

PARTNERSHIPS:

The logo for invest.RS features three stylized arrows pointing right in green, yellow, and red, followed by the text "invest.RS" in a bold, white, sans-serif font.

PROMOVENDO O
DESENVOLVIMENTO
DO RIO GRANDE DO SUL.

SECRETARIA DO
MEIO AMBIENTE
E INFRAESTRUTURA



GOVERNO
DO ESTADO
**RIO
GRANDE
DO SUL**

O futuro nos une.



A WORD FROM THE PRESIDENT OF INVEST RS

RS, a powerhouse in energy transition.

As you flip through this Book of Opportunities and Investments in Energy Transition in Rio Grande do Sul (RS), you will get to know the essence of the work that drives the entire team behind Invest RS: structuring a strategy for attracting investments that will shape the future of Rio Grande do Sul.

Since we took on the challenge of creating this agency from scratch in 2024, we have worked with ambition, boldness and responsibility to turn our immense potential into reality. We understand the state's capacity and qualities. The challenge is to make them even better known both inside and outside Brazil.

This book — produced in partnership with the State Secretariat of the Environment and Infrastructure and with Portos RS — is not just a catalog. It's an invitation for more actors to take part in making Rio Grande do Sul an increasingly effective model for energy transition in Brazil. It is the embodiment of our strategy, aligned with the Economic, Inclusive and Sustainable Development Plan. Launching it at COP 30, held in Belém do Pará, is a sign of the maturity and boldness in the goals we intend to achieve.

Cooperation is more than a value — it's a way of acting. The success of a mature energy transition policy like ours, now in full implementation with numerous projects, actions, and stakeholders, depends on the connection between government, academia, the private sector, and civil society.

Committing to the future of our environment and managing the impacts of climate change is not the task of one entity alone. It is a collective and generational effort — one that requires us all to work together for lasting transformation.

The best way to predict the future is to create it. Join us in thinking big and come invest in the state that is Brazil's leading example in climate resilience and energy transition.

Rafael Prikladnicki
President of Invest RS



WHAT IS THIS BOOK?

Invest RS presents its **Book of Opportunities and Investments in Energy Transition**, a publication that consolidates the main opportunities available in the state's energy ecosystem.

The goal is to **connect investors, entrepreneurs and companies** to initiatives that drive decarbonization, technological innovation and sustainable growth in Rio Grande do Sul, strengthening the state's green economy and low-carbon economic development.

Organized in audience profiles, the Book presents **clear paths for investment, promotion and sustainable development:**

For investors: opportunities in renewable energy, sustainable infrastructure, clean technologies and impact funds that combine potential financial returns with environmental and social gains.

For companies and entrepreneurs: access to incentive programs, terrains in technology parks and industrial districts, as well as credit lines and grants for innovative projects in energy efficiency, biogas, green hydrogen and electric mobility.

THE OPPORTUNITIES

This book contains:

<p>US\$ 10.75 billion in outlined investments and opportunities</p>	<p>44 opportunities</p>
<p>35 companies and organizations</p>	<p>Total generation capacity (licensing in operation) BIOGAS 15 + HYDROPOWER 2,366 MW + WIND POWER 1,900 MW = 4,281 MW</p>
<p>Licensed energy potential Hydropower ~ 2,780 MW Wind ~ 10,000 MW</p>	

THERE ARE MANY REASONS TO INVEST IN RIO GRANDE DO SUL

THE FUTURE IS TO INVEST IN RS



Rio Grande do Sul enjoys a privileged location, positioned at the **center of Mercosur**, bordering Argentina and Uruguay, providing access to a market of **150 million people**, which corresponds to **70% of the continent's GDP**.



Quality of life and safety are other appeals, with Rio Grande do Sul being the **third safest state in Brazil**.



Economically, the state is one of the strongest in the country. It is Brazil's fifth largest economy, with broad diversification and accounting for 6% of the national GDP. In terms of human development, RS has the **fifth highest Human Development Index (HDI) in the country**, exceeding the national average.



Innovation is another strength, with the state being home to **24 technology parks, 160 science, technology and innovation (ST&I) institutions, 67 business incubators and 1,472 startups**. Every year, 1,200 PhDs graduate, and the state is the national leader in patent registrations, being home to two of the best technology parks in the country. In 2025, the innovation sector received public investments of **US\$ 67 million***.



Learn more about the advantages of investing in RS at <https://investrs.org.br/en/>

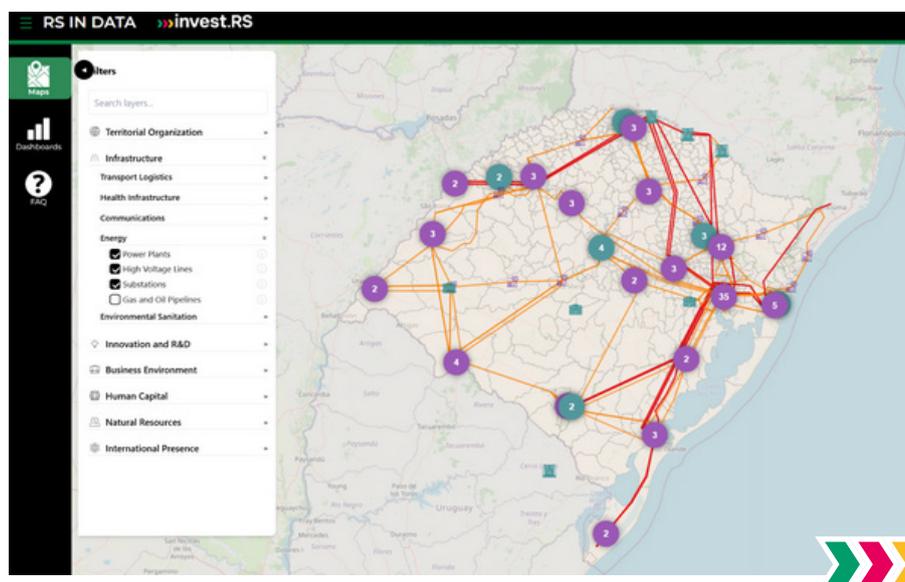
EVERYTHING ABOUT RS, ALL IN ONE PLACE

Much of the information presented here — in addition to hundreds of other data points about Rio Grande do Sul — can be found on the **RS in Data** portal, developed and launched by Invest RS in 2025.

It is a **platform for visualizing data** on various aspects of RS, which aims to **provide strategic information about the state** to support decision-making by investors, entrepreneurs, researchers, and public managers.

Open to access and fully bilingual, the platform offers data on the economy, population, companies, workforce, international trade, and much more, presented visually and interactively through maps and dashboards.

On the Energy subject, the maps already group together georeferenced data on **energy infrastructure**, such as national grid power plants, high-voltage lines, and substations. In the dashboards, a page dedicated to innovation shows Rio Grande do Sul's startups, 18 of which operate in **EnergyTech**.



Check out all information about Rio Grande do Sul at <https://rsindata.com/>

CLEAN ENERGY IN RIO GRANDE DO SUL

85%

of RS' electricity
comes from
renewable sources

12,6 GW

total energy capacity

National leader in biodiesel production:

- 2 million m³ per year

Transmission capacity:

- 101 high-voltage lines: sixteen 525 kV and eighty-five 230 kV lines
- 11,000 km of high-voltage lines installed and 3,000 km in projects

4th largest

producer of solar
energy in Brazil

5th largest

producer of wind
energy in Brazil

Leader in offshore wind power projects:

- 31 projects undergoing licensing with Ibama
- Potential of 78.7 GW
- + US\$ 130 billion in investments

50 onshore wind power projects:

- 16.7 GW
- US\$ 18 billion*
- 42 licensed projects

*all monetary values converted from BRL to USD on November 7, 2025
according to Brazilian Central Bank quotation. 1 USD = 5.3567 BRL.

SUMMARY

OPPORTUNITIES FOR INVESTORS

	11 ao 37
ARPOADOR	12
BEGREEN	13
BIOKÖHLER	14
BLUE ASPIRATIONS	15
BRAIN ENERGY	16
BRASPELL	17
CAUDURO	18
CEMVITA	19
CYGNUS	20
COEPLMI	21
DGE	22
DUOTEB	23
ELECTRA E ILLIAN	24
EPCOR ENERGIA	25 ao 27
GREENMOLEN	28
IFX ENGENHARIA	29 e 30
JB ENERGY E MINGYANG	31 e 32
OCEANTEC	33 e 34

PLATANOBIO ENERGIA LTDA	35
REITER LOG	36
RENOBRAX	37
OPPORTUNITIES FOR BUSINESSES/ENTREPRENEURS	38 ao 57
BADESUL	39 e 40
BE8 S.A.	41
BRDE	42
GUOFUHEE HYDROGEN ENERGY	43
H2V MOB	44
LEAL INOVAÇÕES	45
OCEANTEC	46 ao 51
REFINARIA DE PETRÓLEO RIOGRANDENSE	52
SHARBOM CARBONO SUSTENTÁVEL LTDA	53
RODOPLAST	54
TECNOUCS	55
CPETS	56
YDROGENIO	57

THE FUTURE IS TO INVEST ————— IN RIO GRANDE DO SUL

OPPORTUNITIES FOR INVESTORS



»»invest.RS

PROMOVENDO O
DESENVOLVIMENTO
DO RIO GRANDE DO SUL.



NATURAL GAS-POWERED THERMOELECTRIC PLANT PROJECT ELIGIBLE TO PARTICIPATE IN ENERGY AND CAPACITY AUCTIONS

Opportunity

The company seeks investors to enable the execution of the project and envisages a participation of up to 30% equity and 70% financing, linked to success in the federal government's capacity reserve auction.

Value

The company's projected investment amount is **US\$280 million**, subject to the project's successful submission in the federal government's capacity reserve auction.

Timeframe

2026



Basic information

Arpodor Energia has a project to build a natural gas-powered thermoelectric plant with an installed generation capacity of 300 MW in Charqueadas (RS), in the Metropolitan Region of Porto Alegre. This is a strategic project to ensure the quality and security of electricity supply in the state capital while promoting an expansion of natural gas transportation infrastructure. The UTE Farroupilha plant will be able to serve approximately one million inhabitants and is intrinsically linked to the state's energy security.

Target audience

Electricity generators, investors, development banks, investment agents or funds, financial institutions, natural gas producers, customers.

Location

Charqueadas (RS)

Contact

☎ +55 21 2217-2950
✉ arpodor@arpoadorenergia.com

Link to info

<https://arpoadorenergia.com/>





BIOENERGIA E FERTILIZANTES SUSTENTÁVEIS

GREEN HYDROGEN AND LOW-CARBON AMMONIA PRODUCTION HUBS

Opportunity

Begreen is developing low-carbon ammonia plants in different regions of the country, with its most advanced projects located in Passo Fundo and Tio Hugo (RS). A distinguishing feature is that the Passo Fundo plant will be a factory-school integrated with the University of Passo Fundo (UPF), enabling the training of skilled labor, applied research and the offering of master's and doctoral scholarships. The public-private-academic partnership model is a structural part of the project and aims to accelerate scalability.

Value

Passo Fundo (RS) hub: estimated investment of **-US\$ 8.4 million**
 Tio Hugo (RS) hub: estimated investment of **-US\$ 13 million**

The Passo Fundo plant is in an advanced stage of financing structuring. The company remains open to new investments, mainly for the Tio Hugo hub.

Timeframe

Passo Fundo (RS): 1st half of 2026
Tio Hugo (RS): 2nd half of 2026

Location

Passo Fundo and Tio Hugo, both in Rio Grande do Sul.



Basic information

Begreen is a company focused on producing green hydrogen from hydroelectric power to generate low-carbon ammonia for the agricultural sector. The proposal is to develop modular, smaller and highly scalable factories that can be installed in different regions of Rio Grande do Sul and Brazil. In this way, production can be adapted to local ammonia consumption demands and the region's production chains, contributing to decarbonizing the nitrogen fertilizer chain and strengthening its economic, social and environmental sustainability.

Target audience

Investors, financial institutions, clients and potential government partners for the expansion of new plants.

Link to info

<https://begreen.eco.br/>

Contact

Fabio Saldanha - New Business Director

☎ +55 11 97404-0623

✉ fabio.saldanha@begreen.eco.br

🌐 <https://www.linkedin.com/in/fsaldanha1/?originalSubdomain=br>



IMPLEMENTATION OF BIOGAS PLANTS AND ENERGY GENERATION FROM AGRO-INDUSTRIAL WASTE IN RIO GRANDE DO SUL

Opportunity

Development and implementation of biogas plants to produce energy from pig manure, agro-industrial waste and organic effluents. The units are located in different municipalities in Rio Grande do Sul and are geared towards biogas production, electrical and thermal generation and the reuse of biofertilizers, reaching up to 1,800 Nm³/day.

Value

Consolidated investments exceed **US\$ 2.4 million**, with an Internal Rate of Return (IRR) of up to 52%, reflecting the profitability and technical viability of the BioKöhler model.

Timeframe

2026

Location

Plants being set up in the municipalities of Encantado, Teutônia, Santo Cristo and Anta Gorda (RS), regions with a strong presence of pig farming and favorable energy infrastructure.



Basic information

Bioköhler is driving the energy transition in Brazilian agriculture, transforming agricultural waste into biogas and biofertilizers. With more than 20 years' experience in the sector, it is a pioneer in the country in complete-mix biodigesters – technology originally used in Germany and adapted to Brazilian conditions – guaranteeing high efficiency in biogas production, reduced emissions and renewable energy generation.

Target audience

Investment funds, cooperatives and agro-industries interested in distributed generation, circular economy and energy recovery from agricultural waste.

Link to info

<https://www.biokohler.com/>

Contact

Fabio Jose Heck - Managing Partner

+55 45 99854-8255

+55 45 3254-4897

biokohler@biokohler.com

Further information

The units generate energy from biogas, also producing biofertilizers and significantly reducing greenhouse gas emissions.



IMPLEMENTATION OF THE LAND & SEA SYSTEM: FLOATING LIDAR SYSTEM FOR OFFSHORE MONITORING AND MARINE WIND ENERGY IN RIO GRANDE DO SUL

<p>Opportunity</p> <p>The Land & Sea Project is a strategic initiative by Rio Grande do Sul to install and operate a Floating LiDAR System (FLS) - BA-FLS NX5 buoy off the coast of the municipality of Rio Grande (RS). The system collects highly accurate wind, wave, and environmental parameter data to create a robust scientific basis for the development of offshore wind farms and to support academic research. The buoy is equipped with state-of-the-art sensors and dual LiDARs certified by OWA/Carbon Trust (Stage 2 and 3), audited by DNV, ensuring data availability of over 97% with transmission via Iridium/Starlink.</p>	<p>Value</p> <p>The total investment is US\$ 8.9 million, covering the transfer, transportation, operation, and maintenance of the BA-FLS NX5 Buoy; sensor integration, satellite communication infrastructure, and onshore control center. The project follows OWA and DNV standards, with international technical validation and proven scientific and economic returns.</p>
<p>Basic information</p> <p>Blue Aspirations Brasil, a subsidiary of Blue Aspirations China, is a global reference in offshore measurement and risk mitigation for the offshore wind sector. The company develops and operates high-precision Floating LiDAR systems certified by DNV and Carbon Trust, with a presence in 12 countries. In Brazil, it leads the Land & Sea Project in partnership with PORTOS RS, Sindienergia RS, the State Government of Rio Grande do Sul, SENAI-RS, UFRGS, FURG, and NIIPEEE, consolidating the state as a scientific and technological hub supporting the development of offshore wind energy.</p>	<p>Timeframe</p> <p>The project will be executed over 36 months, beginning in 2026, and will include engineering, implementation, calibration, assisted operation, and dissemination of scientific data. The system will remain operational for 20 years, providing continuous data for energy planning, wind modeling, and meteo-oceanographic studies.</p>
<p>Location</p> <p>Municipality of Rio Grande (RS), a coastal area with port and scientific infrastructure to support the operation of the Floating Lidar System and future offshore platforms.</p>	<p>Target audience</p> <p>Energy companies, offshore wind farm developers, research institutions, governments, and investors in meteorological and oceanographic data infrastructure.</p>
<p>Contact</p> <p>Valeska De Bartolo ☎ +55 11 3772-3777 +55 11 96166-1312 ✉ valeska@blue-aspirations.com.br</p>	<p>Further information</p> <p>The project is the first offshore measurement system in RS, internationally validated and essential for planning offshore wind energy auctions in Brazil.</p> <p>Link to info www.blue-aspirations.com.br</p>

Opportunity

Investment for the construction and operation of the Capão Alto Wind Complex, a shovel-ready project with an Installation License issued by FEPAM and wind certification by DNV. The project already has Access Information approved by ONS and is fully capable of connecting to the National Interconnected System (SIN).

Located in the municipality of Tapes, just 95 km from Porto Alegre, the complex has favorable logistics and electrical infrastructure and a total installed capacity of 239 MW, distributed across six wind farms, ready for immediate implementation.

Value

US\$ 52 million (CAPEX)

Timeframe

Until the end of 2026.



Basic information

Brain Energy is a company that operates in the design, development, and production of renewable energy, with a strong presence in the wind energy sector. It was founded in 2012 by Telmo Borba Magadan and Daniel de Moraes Andrade, who decided to combine their executive and business experience in the Brazilian electricity sector to create a benchmark company in the industry. Brain Energy integrates renewable energy projects, structuring and managing all stages of an electricity generation project, from planning to implementation.

Target audience

Investors and green funds.

Location

Tapes (RS)

Contact

Telmo Magadan - Managing Partner

✉ tmagadan@brainenergy.com.br

Daniel Andrade - Managing Partner

✉ daniel@brainenergy.com.br

Matheus Andrade

Director of Engineering and Projects

✉ matheus@brainenergy.com.br

Further information

Installation License in effect.

Link to info

<https://br.linkedin.com/company/brainenergy>



INDUSTRIAL PLANT FOR PRODUCING BIOFUEL IN THE FORM OF WOOD PELLETS AND EXPORTING SAWN WOOD

Opportunity

Industrial plant for the production of sawn wood and wood pellets with export-adequate logistics. Annual production of 120,000 m³ of sawn wood and 200,000 tons of pellets. Estimated revenue of approximately US\$ 60 million per year. Supply of FSC wood within economic radius and with long-term CPR contracts. EPC with top tier companies.

Value

Capex of **US\$ 56 million**. Structuring would be US\$ 39 million in debt and US\$ 16.8 million in equity.

Timeframe

Second half of 2026.



Basic information

Braspell is a company focused on the production of wood pellets for energy, and sawn wood, mainly for pallets. It will purchase wood from forestry operations under long-term contracts with producers in the southern region of Rio Grande do Sul, and its production will be geared toward export through the port of Rio Grande.

Target audience

Green funds, family offices, and strategic partners.

Location

Pinheiro Machado (RS)



Further information

The Braspell project is capable of modular expansion, with investments planned to reach up to 5,000,000 t/year. Hundreds of direct jobs will be created.

Contact

Guilherme Batalha

✉ guibatalha@braspell.com.br

Link to info

<http://braspell.com.br/>

**Opportunity**

The Pejuçara wind project has a projected capacity of 281.4 MW in a rural area covering more than 6,000 hectares, with consistent anemometric measurements taken over a six-year period. The anemometric data indicates excellent wind conditions and a high capacity factor, ensuring predictable generation and competitive returns. This is a solid opportunity for investors seeking renewable energy assets with technical maturity, legal certainty, and high profitability potential.

Value

Estimated investment of **US\$ 260 million** with the opportunity for equity participation or full acquisition of the asset in the pre-construction phase.

Timeframe

The Pejuçara wind project has a Preliminary License (LP) issued by FEPAM, valid until July 25, 2029.

Basic information

CAUDURO - Estudos, Projetos e Consultoria is a developer that has been working with wind projects since 2008 and, in partnership with other companies in the sector, has already operationalized two wind farms in the city of Rio Grande (RS).

Target audience

Institutional investors and companies in the renewable energy sector focused on wind power generation.

Location

Located in the municipalities of Pejuçara and Cruz Alta, in northwestern Rio Grande do Sul, an economically developed region with excellent logistical infrastructure.

Further information

Project licensed by FEPAM via RAS (Simplified Environmental Report) issued on July 25, 2024. It has a DRO concession from ANEEL dated April 25, 2023 (order no. 1,119).

Contact

Marcelo Cauduro
Executive Manager

☎ +55 51 99890-4655
 ✉ marcelo@cauduroenergia.com.br
 in <https://www.linkedin.com/company/cauduro-estudos-projetos-e-consultoria/>

Link to info

<https://cauduroenergia.com.br/>



CEMVITA

**CONSTRUCTION OF A
BIO-OIL PRODUCTION PLANT
IN RIO GRANDE DO SUL**

Opportunity

The company plans to set up its first commercial bio-oil plant in Brazil, in Passo Fundo (RS), and push ahead in developing its industrial biotechnology platform, including new product lines.

Value

Around **US\$ 71 million.**

Timeframe

March/2026



Basic information

Based in Houston (USA), Cemvita is a biotechnology company that transforms CO₂ into bio-inputs for producing sustainable fuels (SAF) and biofertilizers, contributing to the decarbonization of the sector.

Target audience

Financial and strategic investors.

Location

Passo Fundo (RS)

Link to info

<https://cemvita.com/>

Contact

Diego Scarpa de Mello - Finance & Business Development Manager

☎ + 55 16 99603-6310

✉ diego@cemvita.com

🌐 <https://www.linkedin.com/in/diegosmello/?originalSubdomain=br>



DEDICATED BIOMASS BIOMETHANE DEMONSTRATION PLANT - G-ARUANA PROJECT (RS)



Opportunity

Implementation of a replicable biomethane demonstration plant in the Triunfo Petrochemical Complex region (RS). Estimated production of 1.0 million m³/year (SF 92% basis), also generating digestate (~23,000 t/year) for use as biofertilizer and high-purity CO₂ (~1,200 t/year) for industrial applications and green methanol production. The project validates technology, a dedicated agricultural chain, and a business model, enabling subsequent commercial scaling and the spread of renewable energy within the state.

Value

US\$ 3.7 million (CAPEX) raised for the demonstration plant's implementation, with working capital recommendation (~6 months). Estimated annual OPEX: US\$ 373,000.

Timeframe

Estimated 18-month schedule: up to 6 months for engineering/licenses; up to 12 months for implementation; 3 months for commissioning and start-up. Demonstration operation expected within 6 months of start-up.

Basic information

Cygnus Gestão Empresarial (CYG3) develops modular solutions for biogas, biomethane, biofertilizers, and renewable energy, integrating from the field to fuel delivery. It operates in a collaborative model with expert partners and executive experience in the Oil & Gas and petrochemical sector (FPSO/PLSV, crackers, polyolefins, green PE). In Rio Grande do Sul, the company leads the G-Aruana Project, with a demonstration plant for biomethane from energy cane, continuous operation, and agricultural-industrial integration in accordance with ANP standards.

Target audience

Infrastructure/energy/impact funds, O&G/-chemical/agribusiness corporate ventures, gas distributors, industries, agribusinesses, and regional off-takers.

Location

Triunfo Petrochemical Complex (RS), close to energy cane areas and existing infrastructure for network injection or truck logistics.

Further information

Two-stage digestion technology, CH₄ purification >92%, AI/IoT, potential for CO₂, biofertilizers, CBIOS/carbon, and scalable modular model for up to 33,000 m³.

Contact

Marcelo Lyra Gurgel Amaral
Founding Partner

☎ +55 11 98635-8503

✉ marcelolyra@cygnusbr.com.br



COPELMI
MINERAÇÃO LTDA.

**ORGANOMINERAL
FERTILIZER PLANT
CONSTRUCTION PROJECT**

Opportunity

The company is seeking investors to enable the project's execution and envisages a participation of up to 30% equity and 70% financing.

Value

The company's projected investment value is **US\$ 15.9 million.**

Timeframe

2026



Basic information

Copelmi Mineração has a project to build an organomineral fertilizer plant in the city of Candiota (southern region of the state of Rio Grande do Sul), with a production capacity of up to 110,000 tons per year. This organomineral fertilizer combines a mineral/chemical NPK fraction (nitrogen, phosphate, and potassium) with an organic fraction (lignite) - a type of coal found and mined only in the southern region of Rio Grande do Sul. The Pampa Forte project is aligned with the National Fertilizer Plan, which aims to reduce imports of this product by using coal for processing. In addition to being more competitively priced, this product has a lower carbon footprint in its production than imported products. The lignite in this coal deposit has humic and fulvic characteristics that are ideal for improving soil quality and providing micronutrients to plants.

Target audience

Strategic investors, development banks, investment agents or funds, financial institutions, customers.

Location

Candiota - (RS)

Contact

☎ +55 51 3254-5700
✉ contato@copelmi.com.br

Link to info

<https://copelmi.com.br/>



**ENGINEERING, CONSULTANCY
AND TECHNICAL ADVICE FOR
POWER GENERATION
PROJECTS**

Opportunity

DGE offers more than 2 GW in investment opportunities in wind energy projects, open to both partner-investors and energy generators. We are prepared to structure hybrid projects and develop assets in strategic locations with potential for production and integration into the Green Hydrogen market.

Our projects are at different stages of maturity, allowing us to jointly define the business model best suited to the interests of the parties involved, from co-development, delivery milestones, full acquisition, among others.

Value

Investments range from **US\$ 1 to 1.9 million** for each project, depending on its technical specifications and size. In Rio Grande do Sul, all the opportunities could lead to more than US\$ 2.4 billion in investments for the construction of wind farms, boosting sustainable development.

Timeframe

2026. Possibility of investing as long as they are still available in the portfolio.

Further information

DGE has a multidisciplinary team in engineering (environmental, civil, mechanical, electrical, renewable energies) and biology. It works in design, wind measurement, environmental, land and regulatory management.



Basic information

DGE specializes in engineering, consultancy and technical advice for energy generation projects, especially in the wind sector. With over 30 years' experience in the market, it combines continuous qualification and technical expertise to offer integrated, sustainable and high-performance solutions, in line with the best environmental practices. It has a portfolio of more than 6 GW, with more than 2 GW in investment opportunities, from greenfield development to commercial operation, operating in the South and Northeast of Brazil.

Target audience

DGE offers opportunities to energy generators, investment funds, companies seeking diversification and family offices aligned with the energy transition.

Location

DGE operates in RS in the regions of Campanha, the Western Border, the Coast and the North, especially Bagé, Dom Pedrito, Hulha Negra, Candiota, Sant'Ana do Livramento, Uruguaiiana, Soledade and Mostardas.

Contact

Marina Tabasnik - Technical Director

☎ +55 51 99999-5545

✉ marina@dge.com.br

🌐 <https://www.linkedin.com/in/marinatabasnik/>

Link to info

<http://www.dge.com.br/>

<https://www.linkedin.com/company/-dge-energia/>



IMPLEMENTATION OF MODULAR BIOGAS PLANTS AND DISTRIBUTED ENERGY GENERATION FROM AGRO-INDUSTRIAL WASTE IN RIO GRANDE DO SUL

Opportunity

DuoTeB Energia Sustentável develops and implements modular biogas plants aimed at transforming pig manure, organic waste and agro-industrial effluents into electricity, heat and biofertilizers. The projects are located in strategic municipalities in Rio Grande do Sul, with a focus on distributed generation, circular economy and reducing emissions. The plants integrate solutions for environmental treatment, energy efficiency and waste recovery, serving cooperatives, agro-industries and rural condominiums. The portfolio demonstrates robust technical and financial viability.

Value

Consolidated investments total **US\$ 1.6 million**. Each unit produces up to 4,000 Nm³/day of biogas, and has a potential IRR of up to 35%.

Timeframe

Up to 2026



Basic information

Established in 2018, DuoTeB works on environmental engineering and biogas projects, combining technical experience and innovation. In the environmental field, DuoTeB specializes in water resources and the recovery of degraded areas. In the biogas sector, it focuses on the agricultural and agro-industrial sector. They stood out in the Biogás RS program (2023) with 6 projects approved, representing US\$ 1.9 million in investments and around 1 MW in electricity.

Target audience

Investment funds and strategic partners for larger-scale projects in producer consortia.

Further information

The plants operate with energy efficiency of over 90%, integrating electrical, thermal and biofertilizer generation modules, reducing emissions and fully reusing waste.

Contact

Ivan Cesar Tremarin - Managing Partner
 ☎️ +55 51 99253-3157

Location

Projects located in the municipalities of Encantado, Teutônia, Santo Cristo and Anta Gorda (RS), regions with a high concentration of pig farming activity and potential for energy integration.

<p>Opportunity</p> <p>Construction of a 122 MW wind power generation project (generating capacity of 512,000 MWh/year) in the city of Santa Vitória do Palmar, the first project after a long hiatus and which could usher in a new phase of investment in renewable energy infrastructure in Rio Grande do Sul.</p> <p>The region stands out as a possible new avenue for the expansion of wind generation in the country due to the strong potential of its winds, its location outside the curtailment zone and transmission grid congestion (as is currently the case in the Northeast) and its proximity to large consumption centers.</p>	<p>Value</p> <p>Credit to finance up to 80% of the project's investment, estimated up to US\$ 150 million.</p>
<p>Timeframe</p> <p>Estimated start of construction: April/2026</p>	<p>Target audience</p> <p>Financial agents working in infrastructure and energy transition: public and private institutional investors, investment funds, family offices, financing agents.</p>
<p>Location</p> <p>Santa Vitória do Palmar (RS)</p>	
<p>Basic information</p> <p>Joint venture between ILLIAN Energias Renováveis and a major national business group, through an energy self-production arrangement. ILLIAN is the centralized generation arm of the Electra Group, which has been operating in the electricity sector since 2001 through its energy marketing, management and generation activities. The energy generated by the project will be used to meet different consumer loads, avoiding the emission of up to 14,790 tons of CO2 per year - based on data from the National Emissions Registration System (SIRENE) of the Ministry of Science, Technology and Innovation.</p>	
<p>Further information</p> <p>The project will have an installed capacity of 122 MW and is expected to generate 512,000 MWh/year, energy equivalent to the consumption of approximately 221,000 Brazilian homes, based on data from the 2025 Statistical Yearbook of Electricity from the Energy Research Company (EPE).</p>	
<p>Contact</p> <p>José Zampieri Financial and M&A</p> <p>✉ jzampieri@illian.com.br ☎ +55 11 91574-3177</p>	<p>Link to info</p> <p>https://illian.com.br/</p> <p>https://www.linkedin.com/company/illian/</p>



WIND PROJECTS IN URUGUAIANA IN RIO GRANDE DO SUL



Opportunity

JR ENERGIA RENOVAVÉIS and FORTE DOS VENTOS ENERGIA RENOVAVEIS are presenting two strategic wind projects located in the municipality of Uruguaiana (RS), as part of a portfolio with high potential for generating clean and sustainable energy. The Camoati (Hybrid Wind and Solar) and Forte dos Ventos wind complexes are at different stages of licensing, all with average wind speeds above 8.0 m/s, offering diversified investment opportunities with attractive returns in line with ESG targets and the expansion of the Brazilian renewable energy matrix.



Value

Camoati Wind Complex (Solar and Wind) **US\$ 470 million**
Forte dos Ventos Wind Complex **US\$ 370 million**

Timeframe

The portfolio is **valid until march 21st, 2029**, but the duration of each project depends on the licensing phase it is in.

Target audience

Investors and clean energy funds, utilities and companies looking to expand the renewable matrix and meet robust ESG targets.



Basic information

The Camoati Wind Farm and the Forte dos Ventos Wind Farm were developed by EPCOR ENERGIA, a Brazilian company with more than 30 years' experience in renewable energy, having established itself as a benchmark in the development, operation and generation of renewable energy - wind, solar, hydraulic and thermal - as well as studies, analysis and structuring projects in the segment.

Location

The western border of Rio Grande do Sul, covering Quaraí and Uruguaiana, near the border with Uruguay and Argentina.

Further information

The Camoati hybrid complex has 296.4 MW of power (wind) and solar (140 MW), and the Forte dos Ventos wind complex has 300 MW. Estimated financial return based on average wind speed and installed power.

Contact

Nilo Valentim Quaresma Neto
Chief Executive Officer (CEO)

☎ +55 51 99366-5660
✉ niloneto@epcor.com.br

Link to info

www.epcor.com.br



WIND PROJECTS ON THE WESTERN BORDER OF RIO GRANDE DO SUL



Opportunity

NOROESTE ENERGIA presents two strategic wind projects located in the municipalities of Quaraí and Uruguaiana (RS), forming part of a portfolio with high potential for generating clean and sustainable energy. The QUARAÍ and IMBAÁ Wind Complexes are at different stages of licensing, both having average wind speeds above 8.0 m/s, offering diversified investment opportunities with attractive returns in line with ESG targets and the expansion of Brazil's renewable energy matrix.

Value

Quaraí Wind Farm **US\$ 1.06 billion**

Imbaá Wind Farm **US\$ 196 million**

Timeframe

The portfolio is **valid until march 21st, 2029**, but the duration of each project depends on the licensing phase it is in.



Basic information

The Quaraí Wind Complex and the Imbaá Wind Complex were developed by EPCOR ENERGIA, a Brazilian company with more than 30 years' experience in renewable energy, having established itself as a benchmark in the development, operation and generation of renewable energy - wind, solar, hydraulic and thermal - as well as studies, analysis and structuring projects in the segment.

Location

The western border of Rio Grande do Sul, covering Quaraí and Uruguaiana, near the border with Uruguay and Argentina.

Further information

The Imbaá Wind Farm has a capacity of 150 MW and the Quaraí Wind Farm has 430 MW with the possibility of expanding by a further 384 MW, bringing the total project to 814 MW, with all areas contracted.

Target audience

Investors and clean energy funds, utilities and companies looking to expand the renewable matrix and meet robust ESG targets.

Link to info

www.epcor.com.br

Contact

Nilo Valentim Quaresma Neto
Chief Executive Officer (CEO)

☎ +55 51 99366-5660

✉ niloneto@epcor.com.br


Opportunity

The HARMONIA WIND COMPLEX is a strategic wind project located in the municipality of Quaraí (RS), part of a portfolio with high potential for generating clean and sustainable energy. The Harmonia Wind Complex has been granted a preliminary license, with average wind speeds above 8.0 m/s, offering diversified investment opportunities with attractive returns in line with the ESG targets and the expansion of the Brazilian renewable energy matrix.

Value

US\$ 840 million


Timeframe

The portfolio is **valid until march 21st, 2029**, but the duration of each project depends on the licensing phase it is in.

Basic information

The Harmonia Wind Complex was developed by EPCOR ENERGIA, a Brazilian company with more than 30 years' experience in renewable energy, having established itself as a benchmark in the development, operation and generation of renewable energy - wind, solar, hydraulic and thermal - as well as studies, analysis and structuring projects in the segment.

Location

The western border of Rio Grande do Sul, covering Quaraí and Uruguaiana, near the border with Uruguay and Argentina.

Target audience

Investors and clean energy funds, utilities and companies looking to expand the renewable matrix and meet robust ESG targets.


Further information

The Harmonia Wind Complex has a capacity of 643.5 MW with a Preliminary License issued and all the project areas contracted.

Contact

Nilo Valentim Quaresma Neto
Chief Executive Officer (CEO)

☎ +55 51 99366-5660
✉ niloneto@epcor.com.br

Link to info

www.epcor.com.br



WIND TURBINE BLADE PROCESSING AND RECYCLING PLANT

<p>Opportunity</p> <p>Construction of a pilot plant to assess the feasibility of processing and testing new possible uses for the material.</p>	
<p>Value</p> <p>US\$ 7.5 million (total project), with openness to equity depending on investor profile, as well as credit.</p>	<p>Timeframe</p> <p>Up to March/2026.</p>
<p>Basic information</p> <p>Greenmolen is a Dutch company that has developed innovative technology to grind up wind blades and process them, giving them a range of sustainable uses. Until now, there was no sustainable disposal process for wind blades, so they had to be disposed of in landfills. This innovation makes it possible to solve the environmental liabilities of wind farms that are to be decommissioned, a reality that is approaching for the oldest wind farms in Rio Grande do Sul and Brazil.</p>	
<p>Target audience</p> <p>Investors, development banks, industry, foreign investors</p>	<p>Location</p> <p>(RS)</p>
<p>Contact</p> <p>Tijs Jansen</p> <p>☎ +55 11 99255-6108</p> <p>✉ jansen@howtodobusinessinbrazil.com</p>	
<p>Link to info</p> <p>https://greenmolen.nl</p>	



**GREEN PLANT PROJECT
- RIO GRANDE (UVRG)**

Opportunity

Implementation of the Rio Grande Green Plant (UVRG), a green fertilizer plant at the Rio Grande Shipyard 3 (ERG3), next to the Rio Grande Shipyard. The project plans to produce 60,000 tons/year of green ammonia and 100,000 tons/year of green urea from green hydrogen obtained via alkaline water electrolysis. The unit will be able to meet approximately 10% of the annual demand for urea consumed in the state, with a focus on industrial off-takers in the region.

Value

US\$ 8.96 million for the initial phase of the project.

Use of funds

The initial investment of US\$ 8.96 million will be used to import a conceptual technology design and to prepare the basic and executive designs. The project will require a total investment of US\$ 156 million.

Timeframe

Second half of 2026

Target audience

Industrial off-takers located in the port region;
Strategic investors and industrial co-investors;
Energy transition and green economy funds.

Basic information

IFX Engenharia was founded in November 2010 with the aim of contributing to the development of infrastructure in Brazil, especially in transportation, sanitation and technological development.

Location:

Rio Grande Shipyard 3 (ERG3) - Zona Portuária. Av. Almirante Maximiano Fonseca, 4.361 - km 6 da BR-392 - Rio Grande, RS.

Contact

Yoshiaki Fujimori- Director

+55 11 2106-0397

yoshiaki.fujimori@novaengevix.com.br

Link to info

<https://www.ifx.eng.br/>



UTE THERMAL GENERATION UNIT

<p>Opportunity</p> <p>Development of a thermal generation unit for energy production. The UTE will burn 7.2 t/h of rice husks and will have an installed capacity of 5 MW/h.</p>	<p>Target audience</p> <p>Free energy market operators and investor partners.</p>
<p>Value</p> <p>US\$ 13 million for the completion phase of the project.</p>	<p>Timeframe</p> <p>Second half of 2026</p>
<p>Período de vigência</p> <p>Segundo semestre de 2026.</p>	<p>Location</p> <p>Rural area of Uruguaiana, Uruguaiana (RS)</p>
<p>Basic information</p> <p>IFX Engenharia was founded in November 2010 with the aim of contributing to the development of infrastructure in Brazil, especially in transportation, sanitation and technological development.</p>	
<p>Further information</p> <p>Operating time - 330 days a year - 24 hrs/d Estimated execution period - 21 months</p>	
<p>Contact</p> <p>Yoshiaki Fijimori- Director</p> <p>+55 11 2106-0397 yoshiaki.fujimori@novaengevix.com.br</p>	<p>Link to info</p> <p>https://www.ifx.eng.br/</p>



AURA SUL WIND: FLOATING OFFSHORE WIND PILOT PROJECT IN RS



Opportunity

Implementing Brazil's first floating offshore wind system off the coast of Rio Grande (RS), using the Ming Yang SE 18 MW turbine on a Raijin FOWT concrete foundation. The project serves as an industrial demonstration platform, activating the local production chain - including concrete companies, anchoring system manufacturers, offshore logistics, integrators and the Port/Shipyard of Rio Grande as assembly, pre-assembly and O&M hubs. As well as generating energy and skilled jobs, the pilot reduces regulatory and environmental uncertainties, establishes technical standards and prepares the state for large-scale commercial phases, positioning RS as a South American leader in floating offshore wind.

Value

Amount of funding (pilot phase): **US\$ 90-120 million**. Note: the range reflects variations in engineering, logistics and financial conditions to be completed in FEED.

Timeframe

The funding can be divided according to the project stages. The project stages are divided into 4 phases with respective starts: Pre-FEED (2026), FEED (2027-2028), Construction and Installation (2029), Operation and Monitoring (2030-2032).

Basic information

JB Energy, a leading Japanese company in floating offshore wind, owns the Raijin Float technology - a precast concrete platform that reduces CAPEX and CO₂ emissions. In Rio Grande do Sul, it leads the Aura Sul Project, focused on engineering, licensing and port integration, promoting Japan-Brazil technology transfer.

Mingyang, the largest global manufacturer of offshore wind turbines, with 131 GW installed, supplying more than 1900 projects, with more than 24,000 onshore and offshore turbines, brings together expertise in onshore and offshore wind generation, solar, green hydrogen and storage to drive the energy transition.

Target audience

Institutional investors and infrastructure/energy funds; Utilities/generators, traders and free consumers; OEMs/EP-Cs and suppliers wishing to locate production in RS; Development banks and development agencies.

Location

Offshore area of Rio Grande (zone to be defined in coordination with the authorities and environmental studies), with the Port of Rio Grande as the base for pre-assembly, integration and O&M.

Further information

The pilot project has a strong R&D component, with structured cooperation with universities such as UFRGS and FURG for training talent, applied innovation and environmental monitoring. In the initial phases, meteoceanographic measurement surveys will be carried out using a floating LiDAR system, which will make it possible to accurately characterize the offshore wind resource and reduce uncertainties in the project.

Contact

Rodolfo Gonçalves - Chief Executive Officer (CEO)

☎ +81 80 4954-9243

✉ goncalves@jbenergy.jp

🌐 <https://www.linkedin.com/in/rodolfo-tg/>

Marco Wobeto - General Manager Americas

✉ marcowobeto@mywind.com.br

🌐 <https://www.linkedin.com/in/marco-wobeto/>

**Link to info**

www.jbenergy.jp

<https://en.myse.com.cn/>



Opportunity

The project develops sustainable aviation fuel (SAF) from microalgae cultivated with captured CO₂, offering a scalable and cost-effective solution for decarbonizing air transport. With validated technology and a model presented at Aviation X-Lab in Dubai, it is looking for investors to set up the first demonstration plant in South America in partnership with FURG and ZALINA Bioengenharia. The project offers high potential environmental, social and economic returns, with global scalability and a Brazilian technological base.

Value

US\$ 5.5 milhões

Timeframe

December/2025 to November/2028



Basic information

The project is led by ZALINA Microalgae Bioengineering in partnership with FURG and positions Rio Grande do Sul as a pioneering hub in SAF in Latin America. It was also highlighted at Aviation X-Lab in Dubai, attracting interest from international investors and technology partners.

Target audience

Strategic investors, impact funds, green companies and companies from the energy, aviation, biotechnology and sustainability sectors interested in low-carbon solutions. It also targets airlines and refineries seeking to meet decarbonization targets and reduce dependence on fossil fuels.

Location

Rio Grande (RS)

Contact

Prof. Dr. Samuel Vinícius Bonato
 Executive Director of OCEANTEC

☎ (51) 99282-8714

✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>



Opportunity

The project proposes the development of innovative coastal protection works with a focus on climate resilience, based on flexible, adaptive and multifunctional floating structures. In addition to their coastal defense function, these structures incorporate renewable energy generation systems and can operate passively or actively. The active ones use control and monitoring systems that require energy, which can be supplied by integrated renewable sources such as solar and wind. As well as guaranteeing operational autonomy, the system allows surplus energy to be used by coastal communities or injected into electricity grids.

Value

US\$ 187,000

Basic information

The project is being carried out by FURG's Openlab Laboratory of Fluid-Structure Interaction - LIFE, linked to OCEANTEC.

Timeframe

December/2025 to November/2027

Location

Rio Grande (RS)

Target audience

Investors, private companies, and the government, as they specifically impact the populations of the islands and shores of the Lagoa dos Patos. In general, coastal populations.

Contact

Prof. Dr. Samuel Vinícius Bonato
 Executive Director of OCEANTEC

☎ +55 51 99282-8714

✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>

Platanobio Energia Ltda.

SUSTAINABLE WASTE MANAGEMENT AND BIOGAS GENERATION FOR ENERGY AND BIOFERTILIZERS IN RIO GRANDE DO SUL

<p>Opportunity</p> <p>Platanobio Energia is proposing the construction of an integrated waste management and biogas generation plant in Derrubadas (RS), focusing on the use of waste from cattle farming, pig farming, dairies and meatpacking plants. The biodigester system transforms organic waste into biogas, electrical and thermal energy and biofertilizers. The process is 100% anaerobic and closed, capturing greenhouse gases and eliminating the risk of soil and water contamination. The digestate generated is converted into highly efficient organic fertilizer.</p>	<p>Timeframe</p> <p>The schedule foresees construction between 2025 and 2027, with operations starting in October 2026 and expansion until 2027. The operational lifespan is more than 20 years, with continuous generation of renewable energy and biofertilizers, as well as sustained financial and environmental returns.</p>
<p>Value</p> <p>The total investment in the project is US\$ 13.7 million, covering the construction, operation and expansion of the biogas and biomethane purification plant. The project expects monthly revenue of up to US\$ 888,000 after expansion, combining gate fees, the sale of biomethane and the sale of biofertilizers.</p>	<p>Basic information</p> <p>Platanobio Energia is a company from Rio Grande do Sul dedicated to managing agro-industrial waste and producing renewable energy through anaerobic biodigestion. Its business model transforms environmental liabilities into energy assets and high-value organic fertilizers. The venture contributes directly to reducing greenhouse gas emissions, generating jobs, improving public health and strengthening sustainable agriculture. With a national technological base and proven economic viability, Platanobio Energia is consolidating itself as an agent of energy transition and regional development in the northwest of Rio Grande do Sul.</p>
<p>Further information</p> <p>The plant will process more than 298 tons/day of organic waste, with the potential to generate 15,800 m³/day of biogas and 6,500 tons/month of digestate, reducing emissions and agricultural costs.</p>	<p>Target audience</p> <p>Rural producers, cooperatives, food industries and investors in renewable energy interested in waste management and the production of biogas and biofertilizers.</p>
<p>Contact</p> <p>Fábio Rigodanzo Director</p> <p>☎ +55 55 99994-9840 ✉ fabiorigodanzo@bol.com.br</p>	<p>Location</p> <p>Municipality of Derrubadas (RS), a region with strong agricultural activity and favorable logistics for shipping energy and organic fertilizers derived from biodigestion.</p>



FLEET OF BIOMETHANE-POWERED VEHICLES

<p>Opportunity</p> <p>Subsidized resources in sustainability-related credit lines.</p>	<p>Value</p> <p>Amount raised: US\$ 46.7 million</p> <p>Use of funds: Acquisition of fleet of vehicles powered by gas (biomethane)</p> <p>Type of capital: Subsidized resources in lines linked to sustainability.</p>	
<p>Timeframe</p> <p>24-month grace period and 120 months for amortization.</p>		
<p>Basic information</p> <p>Reiter Log is a company from Rio Grande do Sul that is a reference in transportation and logistics in Brazil and Latin America. Founded in 2008, it operates throughout the country and Mercosur, offering customized solutions for various types of cargo. With six units in Rio Grande do Sul and the largest sustainable fleet in Brazil, it stands out for its green logistics and commitment to decarbonization, with four biomethane refuelling points. Recognized by certifications and seals such as GHG Protocol Gold, CDP grade B and EcoVadis Silver, it is among the most sustainable companies in the sector.</p>		<p>Target audience</p> <p>Investors, banks and investment funds.</p>
<p>Further information</p> <p>We are the country's largest logistics operator linked to sustainability, with a fleet of more than 300 vehicles powered by electricity or biomethane. We are leading the energy transition in the national logistics chain, offering long-distance options for sustainable freight through our exclusive network of service stations (green corridor).</p>		<p>Location</p> <p>Nova Santa Rita (RS)</p>
<p>Contact</p> <p>Cristian Souza - CFO</p> <p>☎ +55 51 99271-8348</p> <p>✉ cristian.souza@reiterlog.com</p> <p>🌐 https://www.linkedin.com/in/cristian-souza-03487822/?originalSubdomain=br</p>		
<p>Link to info</p> <p>https://www.reiterlog.com/portaln/</p>		



WIND AND STORAGE PROJECTS PORTFOLIO (BESS/SAE) IN RIO GRANDE DO SUL



Opportunity

The portfolio exceeds 4 GW under development in Rio Grande do Sul, focused on wind generation and storage systems (BESS/SAE). The projects, distributed across the regions with the best energy resources in the state, are in different stages of maturity, from greenfield early stage to ready-to-build (RTB).

Value

The full portfolio represents over **US\$ 5 billion** in new renewable energy ventures in Rio Grande do Sul, solidifying the energy transition and the state's leadership in the sector. Transactions can also be structured as the acquisition of development rights or co-development agreements, requiring proportionally lower initial investment.

Timeframe

Until 2030

Location

Projects distributed in strategic regions of Rio Grande do Sul, with connection capacity, environmental licensing, and regularized land ownership.

Basic information

Renobrax Renewable Energies is a national benchmark in the structuring and development of clean energy ventures. It was responsible for the Campos Neutrais Wind Complex (RS), the largest wind farm in Latin America at the time, with 302 turbines in operation. The company maintains partnerships with global industry leaders and actively participates in ABEEólica, ABSOLAR, and Sindienergia-RS. With 20 years of experience, it operates in all stages of the project cycle: land origination, energy studies, licensing, and engineering, ensuring technical rigor, sustainability, and shared value creation.

Target audience

Energy companies, utilities, infrastructure funds, equipment manufacturers, and large consumers with decarbonization and renewable expansion targets.

Further information

The projects were designed for integration with large consumers, such as industries, data centers, BESS, mining companies, and green hydrogen platforms, maximizing positive socioeconomic and environmental impacts.

Contact

Alex Petter
Director

-  +55 51 98463-3878
-  alex.petter@renobrax.com.br
-  <https://www.linkedin.com/company/renobrax>

Link to info

www.renobrax.com.br

THE FUTURE IS TO INVEST ————— IN RIO GRANDE DO SUL

OPPORTUNITIES FOR BUSINESSES AND ENTREPRENEURS



»»invest.RS

PROMOVENDO O
DESENVOLVIMENTO
DO RIO GRANDE DO SUL.



FINANCING FOR ENERGY TRANSITION PROJECTS - FUNDO CLIMA

<p>Opportunity</p> <p>Credit lines for companies and rural producers to invest in clean energy, energy efficiency and emissions reduction.</p>	<p>Basic information</p> <p>Badesul is the Rio Grande do Sul state government's development agency, offering financial solutions to promote sustainable development, innovation and competitiveness.</p>
<p>Value</p> <p>Fundo Clima: Up to US\$ 9.33 million per client every 12 months.</p>	<p>Target audience</p> <ul style="list-style-type: none"> • Companies of all sizes and sectors. • Rural producers (Individuals). • Projects must be aimed at reducing emissions and/or increasing energy efficiency.
<p>Timeframe</p> <p>Available under BNDES conditions and current regulations.</p>	
<p>Further information</p> <ul style="list-style-type: none"> • Beneficiaries: Companies (all sectors) and individuals (rural producers). • Rates: Solar energy: 9.5% p.a. Other items: 6.5% p.a. • Companies with gross operating revenue (GOR) up to US\$ 16.8 Million: 0.9% p.a. • Companies with GOR over US\$ 16.8 Million: 1.4% p.a. Spread: 2.5% p.a. • Term: Up to 16 years, grace period up to 5 years. • Financing programs: Native forests, machinery, equipment and investment projects. • Payment: Quarterly (company) or annual (individual) grace period; monthly (company) or annual (individual) amortization. Subject to credit analysis and documentation required by Badesul. 	
<p>Contact</p> <p>Juliano Melo – Sales Superintendent</p> <p>☎ +55 51 98410-5614</p> <p>✉ comercial@badesul.com.br</p>	<p>Location</p> <p>(RS) – Statewide service.</p>
	<p>Link to info</p> <p>https://www.badesul.com.br/empresa/34</p>



FINANCING FOR ENERGY TRANSITION PROJECTS - FINAME LOW CARBON



Opportunity

Credit lines for companies and rural producers to invest in clean energy, energy efficiency and emissions reduction.

Value

Finame Low Carbon: Up to 100% of the asset's value.

Timeframe

Available under BNDES conditions and current regulations.

Basic information

Badesul is the Rio Grande do Sul state government's development funding agency, offering financial solutions to promote sustainable development, innovation and competitiveness.

Target audience

- Companies of all sizes and sectors.
- Rural producers (Individuals).

Location

(RS) – Statewide service.

Further information

- **Beneficiaries:** Companies of all sizes.
- **Rates:** BNDES remuneration: 0.75% p.a. Financial cost: TLP, TFB or TS (variable according to IPCA or SELIC). Badesul Spread: negotiable.
- **Term:** Up to 120 months, grace period up to 24 months.
- **Purpose:** Acquisition of more energy-efficient or emission-reducing machinery and equipment.
- **Associated working capital:** up to 30% of the asset's value.
- Projects must be aligned with reducing emissions and/or increasing energy efficiency. Subject to credit analysis and documentation required by Badesul.

Contact

Juliano Melo
Sales Superintendent

- ☎ +55 51 98410-5614
- ✉ comercial@badesul.com.br
- 🌐 <https://www.linkedin.com/company/badesul>

Link to info

<https://www.badesul.com.br/empresa/34>



PILOT PROJECT FOR A GREEN HYDROGEN REFUELING STATION FOR HEAVY ROAD TRANSPORT IN RIO GRANDE DO SUL



Opportunity

A pioneering project to demonstrate the use of green hydrogen (H₂V) in heavy road transportation. A refueling station will be installed alongside Be8's ethanol plant in Passo Fundo (RS), with local production of H₂V by electrolysis of water powered by renewable energy. The infrastructure will include a 20 Nm³/h electrolyzer and two heavy-duty trucks with combustion engines adapted to hydrogen, operating routes of up to 500 km/day. The project will validate the technical and economic viability of heavy mobility with H₂V and will serve as the basis for a future state supply network.

Value

The total estimated investment is **US\$ 7.2 million**, including US\$ 1.7 million from Be8. The resources will cover the electrolyzer, compression and supply system, adapted trucks, civil works, consultancy and engineering services.

Timeframe

The project will be carried out over a period of up to 24 months, with five quarters dedicated to setting up the filling station and purchasing the trucks, and the following period to operation and monitoring. The green hydrogen plant will remain in continuous operation for long-term technical and economic evaluation.

Basic information

Be8 S.A. is a Brazilian renewable energy company that focuses on biofuels and new energy matrices through a circular innovation ecosystem. Recognized for the production of biodiesel and the development of the Be8 BeVant[®] biofuel, the company has process and product patents registered with INPI. Be8 invests in R&D, diversification and internationalization, with a focus on the energy transition, decarbonization and generating sustainable solutions with high technological efficiency.

Target audience

Heavy road transport sectors, logistics operators, automakers, renewable energy producers and investors interested in green hydrogen technologies.

Location

Be8 ethanol plant under construction in the municipality of Passo Fundo (RS). The project will be located in an area with available electricity and water infrastructure.

Further information

The initiative will cut up to 393.8 tons of CO₂ per year and position Rio Grande do Sul as a national benchmark in heavy hydrogen mobility, generating knowledge and green jobs.

Contact

+55 54 2103-7100
 imprensa@be8energy.com

Link to info

<https://www.be8energy.com>



Opportunity

Financing for companies with energy transition projects aimed at replacing fossil fuels with renewable and low-carbon sources. Investments in solar, wind, hydroelectric, biomass and green hydrogen generation are supported, as well as technologies such as smart grids, efficient street lighting, energy storage, electric mobility and biofuels. Capital-intensive projects can count on multiple forms of support, including credit, investment funds and consortia.

Value

The limit on the amount financed by BRDE depends on the funding and the client's economic and financial capacity, and cannot exceed 10% of the Bank's equity.

Timeframe

Recurring and ongoing programs and financing, depending on credit analysis and the availability of funds.

Basic information

The Regional Development Bank of the Far South (BRDE) was founded on June 15, 1961 by the governments of Rio Grande do Sul, Santa Catarina and Paraná, with a clear purpose: to make southern Brazil prosper. Since then, BRDE has been a strategic partner in regional development, supporting and financing projects that boost the competitiveness, innovation and sustainable growth of enterprises of all sizes.

Target audience

Companies with projects focused on the energy transition in the Southern Region.

Location

Investments can be made in the three states of the Southern Region.

Further information

- Empresa precisa estar formalizada.
- Certidões fiscais em dia.
- Garantias compostas por aval dos sócios, alienação de imóveis e equipamentos adquiridos, fundos de avais, carta fiança, recebíveis, outros sob consulta.

Contact

André Gotler
 Industrial Credit and Infrastructure Manager

☎ +55 51 99925-4509 ☎ +55 51 3215-5211

✉ andre.gotler@brde.com.br

🌐 <https://www.linkedin.com/company/brdeoficial/>

Link to info

<https://www.brde.com.br>



CONSTRUCTION OF AN ELECTROLYZER PLANT AND GREEN HYDROGEN SYSTEMS IN RIO GRANDE DO SUL



Opportunity

Guofuhee Hydrogen Energy, one of China's largest hydrogen equipment manufacturers, together with Ydrogenio®, is proposing to set up a factory for alkaline and PEM electrolyzers, refueling stations (HRS) and hydrogen liquefaction systems (LH₂) in Rio Grande do Sul. The project aims to meet Latin America's growing demand for decarbonization technologies, reducing the logistics costs and promoting technology transfer and local technical training. The investment will boost the green hydrogen supply chain and promote regional industrialization.

Value

The planned investment is **US\$120 million**, including the construction of the plant, an electrolyzer assembly line, a testing laboratory and a technical training center. The project is expected to generate 300 direct jobs and more than 1,000 indirect jobs, with a focus on regional exports and connection to the H₂V-RS Hub.

Timeframe

Implementation will take 30 months, beginning in 2025 and reaching full operation in 2027. The schedule includes engineering, initial import of components, gradual nationalization and local production. The unit will have an initial capacity of 200 MW/year, with the potential to expand to 1 GW/year depending on regional demand.

Basic information

Guofuhee Hydrogen Energy Co., based in Foshan (China), is a global leader in hydrogen technologies with presence in 30 countries. It focuses on electrolysis, refueling stations and liquefaction systems. In Brazil, its operation will be implemented through a joint venture with Ydrogenio, integrating engineering, production and local technical support. The company has more than 1,000 MW of electrolyzers installed globally, world-class HSE and MRV quality standards and internationally validated technology.

Target audience

Energy companies, automakers and state governments interested in nationalizing hydrogen equipment and expanding the low-carbon production chain.

Location

Planned implementation in the Industrial Hub of Rio Grande (RS), with logistical integration with the Port and synergy with the H₂V-RS Hub, enabling exports to Latin America.

Further information

The project marks the arrival of the first Chinese electrolyzer manufacturer in Brazil, increasing RS's competitiveness as a continental platform for H₂V technology.

Contact

Pedro Henrique Kool
Executive Director

☎ +55 11 91411-2004

✉ pedro.kool@guofuhee.com.br

🌐 <https://www.linkedin.com/company/guofuhee-brasil/>

Link to info

<https://www.guofuhee.com>



INTEGRATED GREEN HYDROGEN MOBILITY PLATFORM IN RIO GRANDE DO SUL



Opportunity

H2V Mob develops and operates complete green hydrogen solutions, from design to commercialization. The model integrates modular production (100 kW to 5 MW), storage, supply, and an H₂V marketplace, with certification of origin and traceability. The company is seeking partners and investors to expand its pilot project in the Vale dos Sinos region and implement the first public green hydrogen supply station in Rio Grande do Sul, promoting sustainable mobility and regional decarbonization.

Value

US\$ 933,000

Timeframe

January/2026

Basic information

H2V Mob is a technology and engineering company from Rio Grande do Sul specializing in integrated green hydrogen solutions. It operates across the entire chain—production, storage, supply, and commercialization—with a focus on sustainable mobility and industrial decarbonization. It has a pilot project in the Vale dos Sinos region and partnerships with universities, Embrapii centers, and state programs. Its modular and certifiable model allows for replication in industrial parks and logistics corridors across the country.

Target audience

Companies or individuals with projects that identify with innovation focused on decarbonization in industry and mobility.

Location

São Leopoldo (RS)

Further information

Project licensed through RAS (Simplified Environmental Report) by FEPAM, issued on July 25th, 2024. It has an ANEEL DRO concession dated April 25th, 2023 (dispatch no. 1,119).

Contact

Ricardo Vieira Rodrigues
CEO

☎ +55 51 98052-0170

✉ ricardo@h2vmob.com.br

Link to info

<https://www.h2vmob.com.br>



CONSTRUCTION OF A GREEN HYDROGEN PLANT WITH GOLD TECHNOLOGY AND MOLECULAR REACTOR



Opportunity

The project proposes the implementation of the country's first green hydrogen plant based on the Gold technology. The system uses a molecular reactor and a proprietary organic compound to break down the water molecule, consuming less than 1% of energy from renewable energy sources compared to traditional methods of producing hydrogen. In this way, improving and boosting the capacity to produce green hydrogen with a purity of 99.999% and a 99% reduction in CO₂ emissions, solving the three biggest challenges: the high cost of production, implementation and logistics of green hydrogen. The secondary project aims to set up South America's first thermoelectric plant powered by green hydrogen with a 5MW capacity, produced in molecular reactors based on the exclusive Gold technology.

Value

The total investment in the Green Hydrogen production project is **US\$ 11.44 million**. The project has a payback of 2 years, indicating high economic attractiveness and the potential for industrial scale-up. The total investment in the thermoelectric plant project is **US\$ 14 million**. The 3-year payback shows high economic attractiveness and the potential for industrial scale-up.



Timeframe

The execution schedule consists of 14 to 18 months, divided into three phases: engineering and licensing; construction, acquisition and installation of the reactors; and commissioning and assisted operation. Commercial production of green hydrogen is expected to begin by the 18th month. The project will have an estimated lifespan of 30 years, with the capacity for modular expansion and future integration into new hydrogen and green ammonia hubs.

Basic information

Leal Consultoria e Inovações LTDA is based in Novo Hamburgo (RS) and has been working for over 12 years in research, development and engineering of clean energy solutions. It is the owner and exclusive developer of the Gold technology, a disruptive method for producing green hydrogen with low energy consumption and zero CO₂ emissions. The company has already validated the technology in an industrial environment (TRL 8 level) in partnership with industrial centers in Rio Grande do Sul and Curitiba, applying the molecular reactor in real metallurgical processes.

Target audience

Energy, chemical and metallurgical industries, municipal governments, energy transition investors and companies interested in green hydrogen and circular economy solutions.

Further information

The plant will prevent the emission of 4,700 tons of CO₂ per year, making full use of by-products and generating carbon credits. The project positions Rio Grande do Sul as a national hub for green hydrogen and low-carbon technologies.

Location

A 100,000 m² area in the municipality of Coqueiro Baixo (RS), with dedicated electrical, hydraulic and solar infrastruc-

Contact

Cleriston Leal
 ☎ +55 51 98956-5294
 ✉ lealconsultoriaeletrica@hotmail.com



DIGITAL TWIN OF THE SOUTH ATLANTIC: DIGITAL TECHNOLOGIES AND RENEWABLE ENERGIES



Opportunity

The project proposes the use of digital technologies and a digital twin of the South Atlantic to model, simulate and optimize renewable energy systems, with an emphasis on wind, solar and ocean sources. The initiative integrates IoT, AI and big data for real-time monitoring, increasing energy efficiency, supporting sustainable policies and strengthening the transition to a low-carbon economy.

Value

US\$ 1 million

Timeframe

March/2026 to February/2030

Basic information

CIEX (Inter-institutional Center for Observation and Forecasting of Extreme Events) is an initiative of the Federal University of Rio Grande (FURG) that uses technology such as Digital Twins to monitor, model and forecast extreme hydro-meteorological events, such as storms and tidal waves, in order to protect lives and the environment. The initiative is a collaboration with OCEANTEC, other universities and companies and is physically based in one of FURG's facilities in Rio Grande.

Target audience

Companies in the energy sector, startups, innovation centers, government bodies and institutions working on energy efficiency, sustainability and transition.

Location

South Atlantic Region

Contact

Prof. Dr. Samuel Vinícius Bonato
Executive Director of OCEANTEC

☎ +55 51 99282-8714

✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>

**Opportunity**

A multiplex center for recharging electric cars, made up of chargers equipped with innovative “PHOTOBIOCHARGERS” technology. Developed in partnership with family-run farms, it is unique in incorporating seaweed, fortified with rice husks, to sequester carbon and produce oxygen. The project also involves research into the development of fuel cells that treat effluents and generate energy, transforming waste into an energy asset and contributing to sustainability and environmental remediation.

Value**US\$ 1 million****Timeframe**

January/2026 to December/2028

Basic information

The project is led by Sismu startup, an OCEANTEC resident. Sismu is a technology-based company that collaborates on innovative projects. A notable example is the partnership with Algasul (also an OCEANTEC resident) and Nutriivi on the Taxii project, which aims to create a renewable energy and electric mobility platform.

Target audience

Public and private companies, as well as government institutions and agencies.

Location

Rio Grande (RS)

Contact

Prof. Dr. Samuel Vinícius Bonato
 Executive Director of OCEANTEC

☎ +55 51 99282-8714
 ✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>



R&D OPPORTUNITY IN TRIBOLOGICAL SOLUTIONS FOR MOBILITY AND CLEAN ENERGY THROUGH THE NATIONAL INSTITUTE OF GREEN TRIBOLOGY AND ENERGY TRANSITION - CT-TRIB



Opportunity

R&D opportunity in Tribological Solutions for Mobility and Clean Energy, where companies can develop, in partnership with CT Trib, solutions to reduce friction, wear, and operating costs in electric vehicles, biofuels, and clean energy generation systems (wind, hydroelectric, thermochemical). The initiative allows for the testing and validation of sustainable lubrication technologies and materials, accelerating the energy transition and creating a competitive advantage in the transportation and energy sectors.

Value

US\$ 1.1 million

Timeframe

January/2023 to December/2028

Basic information

Furg coordinates an integrated and multidisciplinary national network, in partnership with USP, UFSC, UFU, UFES, UTFPR, UFRN and UFPEL, which uses tribology as a tool to help solve the enormous technological challenges of the energy transition. This ecosystem for generating knowledge and innovation brings together researchers in tribology, materials science, physics, chemistry and the environment to foster interaction with the productive sector.

Target audience

Companies that face challenges in terms of friction, wear and lubrication in energy transition projects.

Location

Rio Grande (RS)

Contact

Prof. Dr. Samuel Vinícius Bonato
Executive Director of OCEANTEC

☎ +55 51 99282-8714
✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>


Opportunity

The development of autonomous offshore cultivation farms represents a new frontier of investment in energy and the blue economy. Companies can work on the design, supply and operation of marine renewable technologies - such as wind turbines and wave converters - applied to self-sustaining cultivation systems. The opportunity involves R&D in automation, remote monitoring and low-cost maintenance solutions, driving a new production chain based on innovation and ocean sustainability.

Value
US\$ 300,000
Timeframe

January/2026 to December/2027

Basic information

The project is carried out by the Openlab Laboratory of Catalytic Organic Synthesis (LSO) at the Federal University of Rio Grande (FURG), linked to OCEANTEC.

Target audience

Companies and investors in the marine renewable energy and aquaculture sectors.

Location

Rio Grande (RS)

Contato

Prof. Dr. Samuel Vinícius Bonato
 Executive Director of OCEANTEC

☎ +55 51 99282-8714

✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>



INTEGRATED PROTOTYPE FOR GREEN HYDROGEN AND ENERGY FROM AGRO-INDUSTRIAL EFFLUENTS



Opportunity

The project proposes the development of an integrated prototype for green hydrogen generation and sustainable treatment of effluents from agro-industries in the South. Companies can participate in the validation and application of this technology, which combines clean energy and environmental management. The opportunity involves R&D in electrodes, system optimization, and the use of H₂V in fuel cells, paving the way for scalable solutions in decarbonization, circular economy, and sustainability in the agro-industrial sector.

Value

US\$ 180,000

Timeframe

January/2026 to December/2027

Basic information

The project is carried out by the Openlab Laboratory of Catalytic Organic Synthesis (LSO) at the Federal University of Rio Grande (FURG), linked to OCEANTEC.

Target audience

Small, medium, and large agro-industries (energy autonomy, decarbonization, environmental); Governments (energy transition, decarbonization, environmental); International companies with technology in development.

Location

Rio Grande (RS)

Contact

Prof. Dr. Samuel Vinícius Bonato
Executive Director of OCEANTEC

☎ +55 51 99282-8714
✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>



MICROALGAE BIO-DECARBONIZERS FOR GREEN ENERGY TRANSITION



Opportunity

TerraMares offers partnership opportunities for companies interested in decarbonization and bioeconomy solutions. The startup develops microalgae bioreactors that capture CO₂ and release O₂ in real time, which can be integrated into clean energy hubs and industrial operations. With advanced R&D infrastructure, its own laboratory, and more than 20 bioreactors, the company is looking for partners to scale biological carbon capture technologies and drive sustainable energy transition.

Value

US\$ 750,000

Timeframe

January/2025 to December/2027

Basic information

The project is led by Startup TerraMares, whose mission is to minimize harmful pressures on the environment and its biota, respecting market trends for quality products and using 100% national technologies. The team is made up of professionals in the field of oceanography and are residents of OCEANTEC, with a branch in Manaus, Amazonas.

Target audience

Companies and industries undergoing energy transition; technology parks and city governments with ESG goals; universities and research centers; clean energy cooperatives; impact investors and green innovation funds.

Location

Rio Grande (RS)

Contact

Prof. Dr. Samuel Vinícius Bonato
Executive Director of OCEANTEC

☎ +55 51 99282-8714
✉ oceantec@furg.br

Link to info

<https://oceantec.furg.br/>



CONVERSION TO A BIOREFINERY FOR BIOENERGY PRODUCTION



Opportunity

Support for regional agricultural development with a focus on rural producers for the implementation of winter crop rotation, sustainability certification, and the ability to supply crops on the scale demanded by the project. In its operation as a biorefinery, the company estimates it will use up to 1 million tons of vegetable oil per year to generate biofuels. In this sense, the company aims to encourage local producers in the Rio Grande do Sul agricultural sector by engaging them in its project and enabling them to become suppliers of sustainable crops.

Value

The company's projected investment is **US\$1 billion**, and the final investment decision (FID) will be made in the first half of 2026. The biorefinery is expected to begin operations in 2028.

Timeframe

1st half of 2026

Basic information

The Riograndense Oil Refinery has a project to convert it into a biorefinery, focusing on the production of bioenergy such as green diesel (HVO), sustainable aviation fuel (SAF), and green naphtha. 100% vegetable raw materials will be used, making the biorefinery the first in Brazil not to use oil for the production of these derivatives.

Target audience

Primarily local rural producers. Also grain and crop crushers and processors, cooperatives, and rural producer associations.

Location

Rio Grande (RS)

Contact

João Bulla
New Businesses Manager

✉ bulla@refinariariograndense.com.br

Link to info

<https://www.refinariariograndense.com.br/site/>



Opportunity

Sharbom Carbono Sustentável proposes the establishment of an industrial complex for bioenergy and carbon credits in Rio Grande do Sul, using Dingli horizontal carbonization technology for forest residues, rice husk, and soybean straw. The project converts agroforestry residues into premium biochar, thermal and electric energy, and certified carbon credits. The solution integrates circular economy principles, decarbonization, and rural income generation. The model is scalable and aligned with the H₂V-RS program, with processing capacity potential of 50-100 t/h.

Value

The total estimated investment is **US\$ 40 million**, with hybrid funding through equity, green financing, and advance offtake contracts. The project has a projected IRR of 18-25%, a payback period of 4 to 6 years, and the creation of 500 green jobs, ensuring both economic and environmental viability.

Timeframe

Project deployment will take place over five years, beginning with feasibility studies and permitting in 2026, followed by construction of a pilot plant and international certification. Commercial operation is scheduled for 2028, with expansion to multiple regional units. Expected lifespan: 25 years.

Basic information

Sharbom Carbono Sustentável Ltda is a technology-based company specializing in the valorization of agroforestry residues and the generation of premium carbon credits. It operates using Dingli technology with 95% efficiency and digital MRV traceability (blockchain). The company works in synergy with AGEFLOR, IRGA, SEMA-RS, FIERGS, and international certification bodies such as Puro.earth and EBC. The project is aligned with the RS Decarbonization Strategy, ProClima 2050, and the H₂V-RS Program, promoting bioenergy, circular economy, and a just energy transition in the state.

Target audience

Industries, cooperatives, green investors, and public sector entities interested in bioenergy, carbon credits, and circular decarbonization solutions for agro-industry.

Location

Regions of Serra, Metade Sul, and Serra do Sudeste (RS), near forestry, rice, and soybean production clusters, with logistical access to the ports of Rio Grande and Porto Alegre.

Contato

Pedro Henrique Kool
Executive Director
☎ +55 11 91411-2004
✉ pedro.kool@sharbom.com

Further information

The project will contribute to emissions neutrality in Rio Grande do Sul, strengthening forestry and agricultural value chains and positioning the state as a Latin American hub for biochar.

Link to info

<https://www.sharbom.com/>



LOW-CARBON HYDROGEN PRODUCTION FROM URBAN SOLID WASTE (USW)



Opportunity

This project involves establishing the first industrial plant in Rio Grande do Sul (a pioneer in Brazil) for low-carbon hydrogen production from Urban Solid Waste (USW). The initiative utilizes an integrated thermochemical process with three key steps: USW drying and homogenization; pyrolysis of the Industrial Biosynthetic Compound (CBSI); and steam reforming of the resulting oil, gas, and char. This process converts waste into low-carbon hydrogen and high value-added gases, eliminating improper waste disposal, reducing emissions, and turning environmental liabilities into valuable energy and industrial feedstocks.

Value

The total investment is **US\$ 8 million**, of which US\$ 2.8 million is equity capital. The project presents a payback period of 5.2 years on total investment. Once fully operational in 2028, it is projected to generate an annual net profit exceeding US\$ 800,000.

Timeframe

The implementation schedule covers 36 months across installation, commissioning, and full industrial operation. Hydrogen production will commence in the third year – 2028, following the deployment of the pyrolysis and steam reforming units. The estimated lifespan of the facility exceeds 20 years, with scalability planned to process up to 65 tons of MSW per day and potential for future expansion.

Basic information

Rodoplast Indústria e Comércio de Componentes Plásticos Ltda., headquartered in Vacaria (RS), is a national reference in plastic transformation and industrial solutions, operating for more than three decades in the road transport, agro-industrial, and packaging segments. The company participates in the project through Ambientalplast, part of the Rodoplast Group and dedicated to solid waste management and valorization. In partnership with the University of Caxias do Sul (UCS), the consortium is developing an industrial model of circular decarbonization, featuring a negative carbon footprint and generating socio-environmental value for the State.

Target audience

Municipal governments, intermunicipal consortia, logistics companies, agribusiness companies, reforestation enterprises, and industries seeking sustainable solutions for waste management, clean energy, and greenhouse gas (GHG) emissions reduction.

Further information

The project transforms urban waste liabilities into clean energy, eliminates net CO₂ and methane emissions associated with dumpsites and sanitary landfills, and creates a new low-carbon hydrogen production chain, helping position Rio Grande do Sul as a national leader in circular economy technologies.

Contact

+55 54 3511-1000
contato@rodoplast.com.br

Link to info

www.rodoplast.com.br
https://www.instagram.com/rodoplast_
<https://www.facebook.com/rodoplast>
<https://www.youtube.com/@rodoplastindustriaecomerci7990>



**TECNOUCS - SCIENCE AND
TECHNOLOGY PARK OF THE
UNIVERSITY OF CAXIAS DO SUL**



Description

UCS, the University of Caxias do Sul, has a Hydrogen Thematic Center for the production of green hydrogen in partnership with multinationals in the mobility sector. It has the RSUP Project for the construction of a regional plant for energy generation from solid urban waste and various research projects in electric mobility with companies in the region, in addition to playing a leading role in the realization of Eletric Move, the first electric mobility fair in Brazil.

Áreas de Especialidade

Pesquisa em Produção de Hidrogênio Combustível, Mobilidade elétrica, Tratamento e transformação de resíduos urbanos em biocombustíveis.

Year of Foundation

2015

Areas of Specialization

Research in Hydrogen Fuel Production, Electric Mobility, Treatment and transformation of urban waste into biofuels.

Anchor Companies that are Part of it

Marcopolo, Randon, Ford

City

Caxias do Sul (RS)

Area Available for Lease (m²)

2.000 m²

Price per m² for lease

US\$ 17/m²

Contact

Fábio Verruck

☎ +55 54 99176-8536

✉ fverruck@ucs.br

🌐 <https://www.linkedin.com/in/fabio-verruck/?originalSubdomain=br>



PARTNERSHIP FOR THE DEVELOPMENT AND TESTING OF SUSTAINABLE TECHNOLOGIES AT CPETS



Opportunity

CPETS offers a strategic opportunity for companies seeking to innovate in energy transition. With laboratories, a pilot plant, and a mobile unit, the center allows for the testing and validation of technologies in biogas, biomethane, bio-inputs, and clean solutions. Companies can develop collaborative R&D, reduce implementation risks and costs, and scale sustainable processes, strengthening the bioeconomy and driving decarbonization in Rio Grande do Sul.

Value

Scalable investments according to the scope of the project, open opportunity for partnerships and contributions to research, development, and innovation (R,D&I) projects in the areas of biogas, bioenergy, and sustainable technologies.

Timeframe

Opportunities open for the entire year of 2026.

Basic information

The Center for Research in Sustainable Energies and Technologies (CPETS) is an innovation hub focused on the energy transition and the bioeconomy. With laboratories, a pilot plant, a mobile unit, and constructed wetland systems, it develops and validates solutions in renewable energy, biogas, biomethane, and bio-inputs. The Center conducts applied research, technological development, and capacity building, integrating academia, industry, and government. CPETS promotes clean technologies, waste valorization, and the decarbonization of the energy matrix in Rio Grande do Sul.

Target audience

Companies, startups, investors, and public agencies in the agro-industrial, energy, and environmental sectors, with a focus on bioenergy, biogas, and sustainable solutions for the energy transition.

Location

Lajeado (RS)

Contact

Odorico Konrad
 PhD in Environmental and Sanitary Engineering
 ☎ +55 51 98036-9790
 ✉ okonrad@univates.br

Link to info

<https://www.univates.br/tecnovates/cpets>



IMPLEMENTATION OF A GREEN HYDROGEN AND POWER-TO-X DERIVATIVES HUB IN RIO GRANDE DO SUL



Opportunity

Ydrogenio® proposes the creation of an Industrial Hub for Green Hydrogen (H₂V) and derivative products (NH₃, CH₃OH, green urea) in Rio Grande do Sul, with a focus on export and local use. The Power-to-X model integrates electrolysis, biogenic CO₂ capture, and green fuel synthesis, using solar and wind energy. The initiative takes advantage of the infrastructure of the Port of Rio Grande and existing industrial hubs, promoting the replacement of fertilizer and fossil fuel imports. The project is aligned with the state's decarbonization strategy and the ProClima 2050 goals.

Value

The total estimated investment is **US\$ 1.2 billion**, with implementation in modular phases (100 MW electrolysis and NH₃ and CH₃OH plants). ASPEN modeling has already validated CAPEX and OPEX, with a projected return in 7 years and the creation of more than 1,200 direct and indirect jobs, integrating multilateral financing and international technological partnerships.

Timeframe

Estimated execution in 36 months after financing is secured, including detailed engineering, licensing, EPC, and commissioning. Industrial operations are scheduled to begin in 2028, with a useful life of over 25 years. The project envisages the formation of green industrial hubs integrating agribusiness, energy, and exports.

Basic information

Ydrogenio Solutions in Decarbonization Ltda is a Brazilian technology-based company specializing in green hydrogen and Power-to-X products. It works with engineering, licensing, operation, and modeling of H₂V, NH₃, CH₃OH, and green urea plants. It has strategic partnerships with Guofuhee Hydrogen Energy (China), CASALE (Switzerland), Shapoorji Pallonji (India), and Hinicio (Belgium). With over 15 years of experience and around 1,200 clients, it offers complete industrial decarbonization and energy integration solutions in Brazil and Latin America.

Target audience

Companies in the chemical, logistics, and energy sectors, institutional investors, and governments interested in Power-to-X solutions and industrial decarbonization.

Location

Green Hydrogen Hub in the Rio Grande (RS) Pole, integrated with existing port and energy infrastructure, with logistical access and strategic export potential.

Contact

Pedro Henrique Kool
Executive Director
☎ +55 11 91411-2004
✉ phkool@ydrogenio.com

Further information

The project contributes to reducing carbon emissions, replacing imports of fertilizers and fossil fuels, and consolidates RS as South America's Power-to-X hub.

Link to info

www.ydrogenio.com

THE FUTURE IS TO INVEST ————— IN RIO GRANDE DO SUL

»»» invest.RS

PROMOVENDO O
DESENVOLVIMENTO
DO RIO GRANDE DO SUL.

 [agenciainvestrs](#)
 [@agencia.investrs](#)
 <https://investrs.org.br/>

// NOVEMBER 2025

