



Matchmaking registration form Green Hydrogen in Uruguay



Making our world more productive

Institution or company name	Linde Uruguay Limitada					
Institution webpage	www.linde.com					
Other web sites of interest	www.linde.uy					
Contact (person, email, phone...)	Federico García federico.garcia@linde.com 093 800 030 2902 0102 ext.123					
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Type of institution (please select all that apply)	<i>Public</i>	<input type="checkbox"/>	<i>Private</i>	<input checked="" type="checkbox"/>	<i>Academy</i>	<input type="checkbox"/>

Short description of your institution/company:

Linde is the leading industrial gases and engineering company. With presence in more than 100 countries and over 80,000 employees, Linde serves more than 2 million customers around the world.

It has been present in Uruguay since 1945, producing, delivering and selling industrial and medical gases to major customers in the country. Our company has two air separation plants, a VPSA non-cryogenic oxygen plant (plus a second one under construction), 5 gas filling station, a welding electrode production plant, and a network of branches and distributors that guarantee supply throughout the national territory.

More specifically on Hydrogen, Linde belongs to the most experienced companies able to show references in Brown, Grey, Blue and Green hydrogen. More than 160 steam reformers and HyCO units under operation. Several Ammonia plants and over 80 Electrolyzers. Linde has also announced recently the world largest PEM electrolyzer that will be build in Germany (24 MW).

Your institution provides (please select all that apply)	<i>products</i>	X	<i>services</i>	X
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Short description of your relevant market, i.e. your relevant product/service and geographic market:

Linde is the partner of choice for green hydrogen and related derivatives. Linde can address the whole hydrogen value chain based on proprietary technology from the electrolyzer and RNE management down to H2 liquefaction, compression, storage, further transformation into Ammonia or Methanol, H2 distribution per trailers or through refueling stations with proprietary and custom design dedicated to heavy duty, buses, trains or cars.

Linde offers to invest into an H2 production and downstream assets but also to contract with local end-users and secure exports to Europe on a long term contract.

Linde offers also to build on its presence in Uruguay and South America to increase offtakes and therefore decrease unit costs for the project.

Area(s) of activity (please select all that apply) in connection with Green H2

<i>Hydrogen and other products production</i>	X	<i>Renewable Energy</i>		<i>Transport</i>	X
<i>Logistic</i>	X	<i>Industrial</i>	X	<i>Finance</i>	X
<i>Legal</i>	X				

Expertise areas (please select all that apply)

<i>R&D</i>	X	<i>Technology transfer</i>		<i>Technology developer</i>	X
<i>Technology end-user</i>	X	<i>Technology supplier</i>	X	<i>Investor</i>	X

Other:

Main technological capacities and facilities

International references:

- Hydrogen Center Australia – 35 MPa buses and trucks fueling station, 2005
- Shanghai Auto city, China – 35 MPa fueling station for cars and buses, 2007
- Nuclear Research Institute (REZ), Czech Republic – 35 MPa cars and buses fueling station, 2009
- Statoil, Norway – 35 and 70 MPa fueling station. 2007
- AC Transit, California – Electrolyser and fueling station – 35 and 70 MPa for buses and cars, 2011
- Arlanda Airport, Sweden – Electrolysers and fueling station – 70 MPa for airport cabs, 2015
- Hydrogen Centre, Italy – Production and fueling station – 35 and 70 MPa for cars and buses, 2014
- 7-Eleven & 76, San Juan Capistrano, USA – 35 and 70 MPa filling station, 2016
- Ramos Oil, West Sacramento, USA – 35 and 70 MPa fueling station, 2015
- Iwatani, Japan – 70 Mpa fueling station, 2015
- Toyota City, Japan – 35 and 75 MPa cars and buses fueling station, 2013
- Aberdeen, Scotland – 35 MPa buses fueling station, 2015

About the partner(s) you are looking for

Where are you looking for a partner (please select all that apply):

In Uruguay

X

Abroad

Looking for partners in the area(s) (please select all that apply)

Hydrogen and other products production

Renewable Energy

Transport

Logistic

Industrial

Finance

Legal

What kind of partner(s) are you looking for

Mainly local partners. Mainly during project execution (e.g. for construction, erection, civil works, etc) but also during operations (e.g. Offtakers interested in H2 mobility – City buses, Mining industry, cars, eventually trains), partners interested in co-produced Oxygen from the electrolyzer or LP steam. But also in order to prepare Phase II, refinery partner or from the fertilizer industry.

Which capacities and/or facilities are you looking for

We look for companies with references able to manage/handle a world class project with potential export or expansion.

Pilot Phase will be a 2-digits most probably from 20 to 50 MW. Industrial Phase II will consider larger export quantities and will be between 100 and 500 MW.

Date: june 11th, 2021