



# ASSOCIATION OF POWER EXCHANGES

## APEX Objective

To facilitate the development and communication of ideas and practices in the operation of global competitive electricity markets. One of its primary intentions is to provide a platform for the sharing of information between its members.

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## In the Spotlight

**APEX Annual Conference 2024**

**Sep 24-26, 2024**

**Venue: Santiago, Chile**



**Details on Page 05**

### Daniel Wragge

*Director Political &  
Regulatory Affairs  
European Energy Exchange  
(EEX)*



### Hydrogen – The New Commodity

Soon, we'll be gathering in Santiago de Chile for the annual APEX conference, where we'll dive into the latest industry developments and discuss new trends.

One topic for sure will be the emerging of a new market. Some might call it hype, but for most of us, it's a beacon of hope. Over 30 years ago, we witnessed the liberalization of electricity and gas markets. About 20 years ago, the world saw the birth of emission markets, putting a price on CO2 emissions. This was followed by markets for green certificates, assigning value to the green source of electricity and white certificates, assigning value to energy efficiency measures. Markets for LNG and for wood pellets also emerged. Now, there's a new energy commodity: hydrogen.

Well, maybe it's not entirely new. We've had markets for "grey" hydrogen derivatives like methanol and ammonia coming from fossils for a long time. What's new is the potential of hydrogen as a green or decarbonized energy storage mechanism, a long-term replacement for natural gas when coupled with other sources, a chance to reorganize energy supply chains, and most important a way to complement renewables with a means to store electricity for times when there is no wind nor sun.

But hydrogen offers even more. Produced via electrolysis powered by green electricity from renewables or other fossil-free sources, it can help us decarbonize our economy and fight climate change.

## Continued Director's column

There are many compelling reasons to ramp up a hydrogen economy. However, we're still at the beginning of this journey. The necessary infrastructure for production, storage, transport, and consumption is largely missing: a classic chicken-and-egg problem. So, how can markets, run by energy exchanges, help overcome this?

The key is "price signals" and by that transparency. Markets can create price signals that drive investment, which is crucial for avoiding sole reliance on subsidies. Energy exchanges already have the tools to start this process. For instance, they can create hydrogen indices by asking producers and consumers about their prices and calculating a transparent index for everyone to access. They can also set up auction platforms to bundle liquidity in a new market and configure buy or sell auctions as needed (see EEX hydrogen website: [Hydrogen\(eex.com\)](http://Hydrogen.eex.com)).

Hydrogen as a commodity is truly global. Production will likely thrive where clean electricity is available for lowest costs at large scale, like in Chile, and then be transported to consumption centers where energy is more costly. That's why I believe globally operated hydrogen markets will be pivotal. What topic could be more fitting for our APEX conference this year? Can't wait to see you all there.

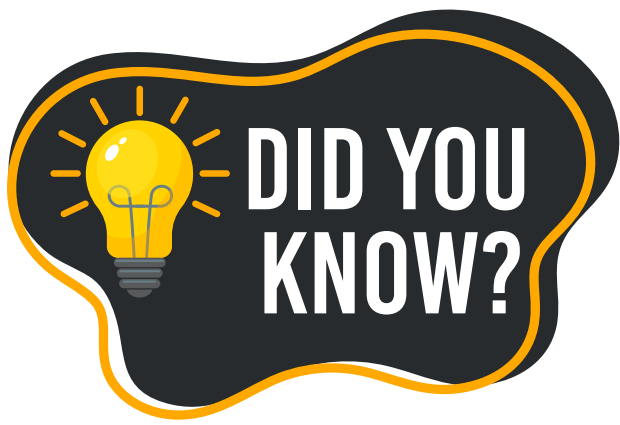


### Association of Power Exchanges

2750 Monroe Blvd., Audubon, PA 19403 Phone: (610) 666-8925 Website: [www.theapex.org](http://www.theapex.org)

Stu Bresler, APEx Chairman

Email: [stu.bresler@pjm.com](mailto:stu.bresler@pjm.com)



## Coordinador Eléctrico Nacional (CEN)



The Chilean national electricity market (CEN) represents about 95% of total demand in Chile as a single market where prices are settled each hour at over 2000 locations.

Chile is considered the longest country in the world at over 2,700 miles long and only 109 miles wide.

According to a study published by the Chilean Association for Renewable Energy (ACERA), by the year 2030, the government aims to have 70% of energy consumption coming from renewable power sources, an increase from the current 33%.

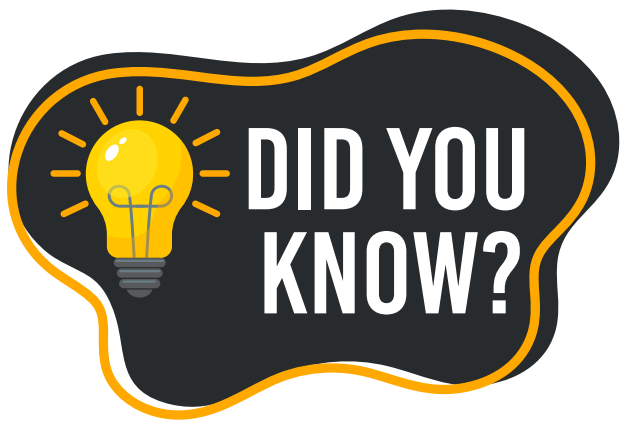
Chile is one of the only governments in the world with an official department dedicated to research into UFOs.



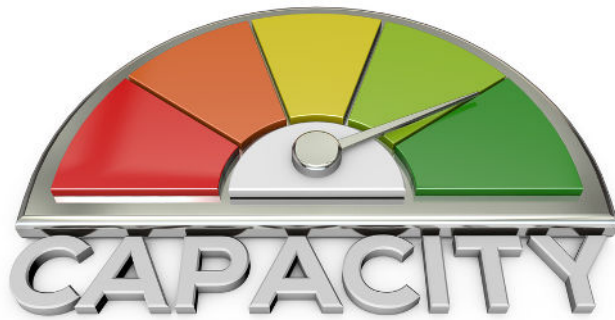
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Chile's installed capacity is over 33,000 MWs of which over 35% is from combined solar and wind.

APEX has hosted 27 Annual conferences in 21 different countries across 5 different continents and the 2024 conference will be the first time in Chile.

Chile is famous for great wines and has many vineyards because of its unique location and narrow width between the Pacific Ocean and the Andes mountains that allows for warmer and colder climates.

Chile has a goal to become the top world exporter of hydrogen by the year 2050 and at least 10 green hydrogen projects in development by the end of 2026.



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# Secure your spot at the forefront of innovation!

## Don't miss out – register now for

### APEX Annual Conference 2024

# SAVE THE DATE



## APEX 2024 CONFERENCE

 SANTIAGO, CHILE.

Join us in Chile, one of the countries that is advancing the fastest in the integration of renewable energies into its electrical system.

### Key Topics:

- Climate change and the Impact on Markets
- Reliability challenges facing the markets with energy transition
- Renewables impact on Markets and the transmission network
- Technologies
- Regulators' Perspective

 [info@apex2024santiago.com](mailto:info@apex2024santiago.com)

 [www.apex2024santiago.com](http://www.apex2024santiago.com)

To have your member company featured “In the Spotlight,” please send an email to:  
[Katrina.Zarczynski-Magee@pjm.com](mailto:Katrina.Zarczynski-Magee@pjm.com)



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