

# Energy Transition Dialogues

## DAILY BULLETIN



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TUESDAY /// MAY 10<sup>th</sup>

### TOP 10 DAILY NEWS DIGEST

- COLOMBIAN ENVIRONMENTAL ACTIVISTS DELUGED BY THREATS
- UBER'S STRATEGIC SHIFT SIGNALS INVESTORS WANT SUSTAINABILITY
- AVOID USING GAS AS 'TRANSITION' FUEL IN MOVE TO CLEAN ENERGY
- UAE FOCUS: PERFECTING THE ENERGY MIX ON THE ROAD TO NET ZERO
- ENERGY TRANSITION REPRESENTS ERA DEFINING OPPORTUNITY FOR AFRICA
- BP TO TAKE MAJOR STAKE IN \$36BN ASIAN RENEWABLE ENERGY HUB
- AUSTRALIAN GOVERNMENT TO INVEST A\$300MN IN NEW HYDROGEN HUB
- MOROCCO AIMS TO DOUBLE RENEWABLES CAPACITY TO 12GW BY 2030
- DEWA COMPLETES 98.83% OF ITS AED 266MN WATER PIPELINE PROJECT
- EU PLANS ONE-YEAR RENEWABLE ENERGY PERMITS FOR FASTER GREEN SHIFT

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## Madhav Dhar

Co-Founder & COO  
ZāZEN Properties



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### VIEWS YOU CAN USE



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### Alex Zapantis

General Manager - Commercial  
Global CCS Institute



#### CCS Uptake Rising to Meet Short-term Goals

The global increase in demand for carbon, capture and storage (CCS) has been remarkable over the past few years, with projects and investments steadily growing since 2017. A total of 172 commercial CCS facilities are in various stages of development, compared to a count of 135 six months ago, and 29 of them are in operation. Developing a CCS facility may take a minimum of two years in theory, or it can take as long as eight, depending on the existing infrastructure in place. But often, the infrastructure already exists, and so increases the investment appetite.

#### Blue Hydrogen Can Scale Quickly, Grow Exponentially in the Middle East

Blue hydrogen in this region has significant advantages in terms of scale. Facilities today that operate with CCS on the side, have a capacity of between 200 to 1,300 tons of hydrogen per day. We see more of those larger plants operating in the future. Saudi Arabia has all the ingredients necessary to be a major supplier of clean hydrogen, both blue and green, which is good news for the climate because they have lots of very low-cost hydrocarbons. It has a strategic imperative to decarbonize its products and it makes good business sense to invest in blue hydrogen production, which can be scaled up quite naturally, and has very familiar technology. We are now seeing a rush to gain market share; the clean hydrogen market is going to be enormous. Countries like Japan, for example, are actively looking for reliable supplies of relatively low emissions hydrogen products such as ammonia. ■

*\*Paraphrased Comments*



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## At the World's Largest Oil Refinery, the Energy Transition Gets Underway



**Bill Spindle**  
Council on Foreign Relations  
International Affairs Fellow, India

**R**eliance Industries' facility processes about 1.4% of all the oil produced in the world every day. Even here, the transition to renewable energy is gaining momentum.

Few places capture the promising yet perilous state of the world's energy transition better than where I visited earlier this week: The world's largest oil refinery, situated in a once-empty desert along the Gulf of Kutch on the Arabian Sea.

Here Reliance Industries Ltd. takes in 1.4 million barrels of crude each day from tanker ships offshore. The facility is a sprawling forest of pipes, tanks, boilers, generators and catalyzers, all landscaped very attractively with flower beds, greenery and ponds hosting geese and ducks and migratory birds.

It operates 24-7-365, turning oil into the full array of fossil fuel-based products the world demands. These include everything from gasoline, diesel and jet fuel to the petrochemicals used in plastic packaging and clothing. The facility grew in three rounds of rapid development between the late 1990s and the mid-2000s, transforming Reliance into a global energy titan and its leader, Mukesh Ambani, into one of the world's wealthiest and most powerful magnates.

These days, in a previously unused corner of the complex, something else dramatic is getting underway. Another vast expanse of sandy soil has been flattened, just as the rest of the land once was. The foundations are being laid for the most ambitious integrated renewable energy project in the world.

Ambani, whose father founded Reliance and built it into an oil and gas giant, is building a huge solar panel



factory here. That's just for starters. This will be followed by a massive factory to produce batteries for storing renewable energy produced by the solar panels. Then will come another giant factory to make hydrogen electrolyzers, a carbon-free technology coming into view as a potential mainstay of the new energy age for making steel and fertilizers, as well as powering ships and perhaps someday even planes. Following the electrolyzer plant will come another factory that will manufacture fuel cells. These will deploy the hydrogen to power trucks and buses, perhaps cars. It's an ambitious plan that starts with Reliance itself reaching net-zero carbon status by 2035 and builds from there to help India reach its national goals along the way to net zero by 2070. Ambani has vowed to pour \$80 billion of investment into the project before the end of the decade, a scale and speed rivaling anything Reliance has done.

No doubt he's serious. The Jamnager refinery rose with stunning speed, defying skeptics and inculcating a determined corporate culture.

Text scrolling around and around a complex of massive flashing screens in Jamnager's control rooms display words ascribed to Ambani's father, Reliance founder Dhirubhai Ambani: "For those who dare to dream, there are worlds to win." Senior managers routinely, without a trace of irony, say things like, "The word 'impossible' doesn't exist here." This corporate promotional video about the construction of the Jamnager complex gives you a sense of how the company, and many employees, view their mission. The Ambanis have also carefully aligned their ambitions with those of Prime Minister Narendra Modi, first during his stint as the chief minister of Gujarat and, since 2014, as he has solidified his position as India's most significant leader since the country's founding prime minister. The company's success, flowing in no small part from its ability to secure regulatory approvals and maximize government policies to its advantage, has helped Modi as well.

**FULL ARTICLE HERE**



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## Energy Transition



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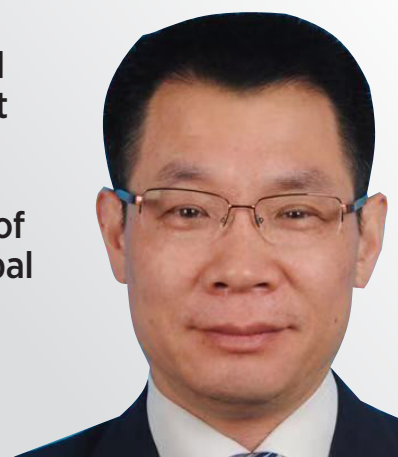
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### EXCLUSIVE SOUNDING

“The world shares a common task of decarbonization, but does it have a common set of standards? Standards, be them technological, technical, or practical, establish consistent and common protocols for the modern society to get factories built, goods and services developed and exchanged, and manufactured products moved across borders. They are indispensable for measuring, reporting and verifying (MRV) GHG emissions under any national climate scheme or global climate pact. What will happen, if China, the world’s biggest GHG emitter, defines its own technical specifications for decarbonization products, and its own norms in GHG MRV and in green financing that are very different from the rest of the world? Well, it will significantly increase the cost of global decarbonization, and create trade frictions.”

**Dr. Xavier Chen**

CEO, CN Innovation & President  
Beijing Energy Club





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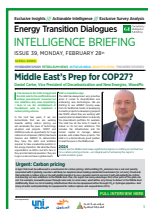
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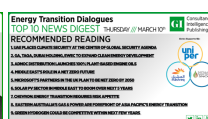
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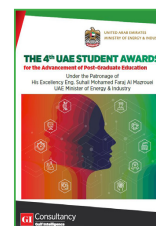
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