



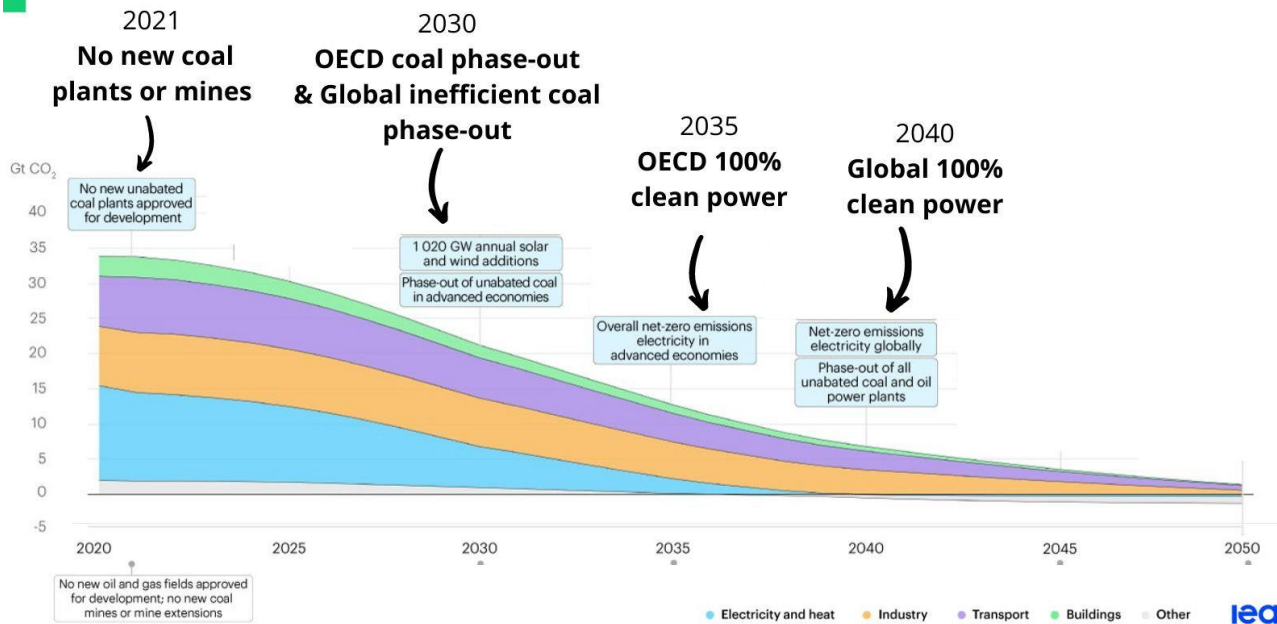
# 24/7 Carbon-free electricity

9th Annual EPRI-IEA - Emerging technologies to  
accelerate energy transition

# Clean power is the backbone of net-zero

What does IEA Net Zero mean for the power sector?

EMBER

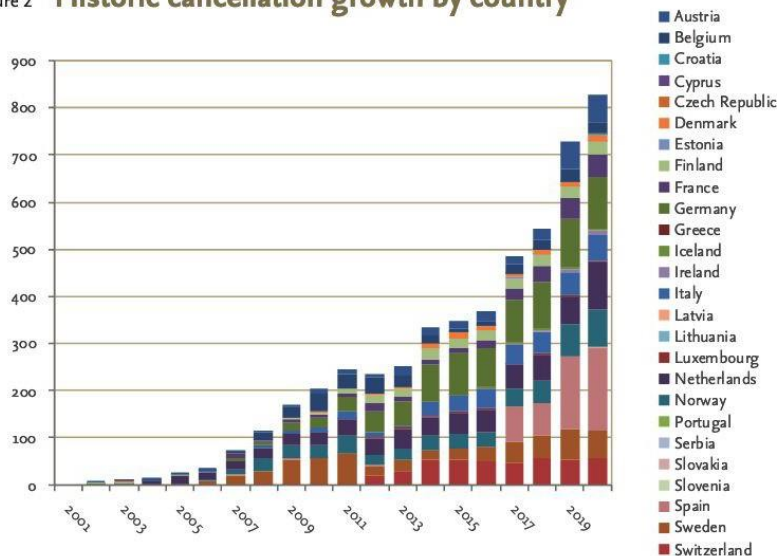


# Clean energy demand is exploding, corporate procurement plays a key role

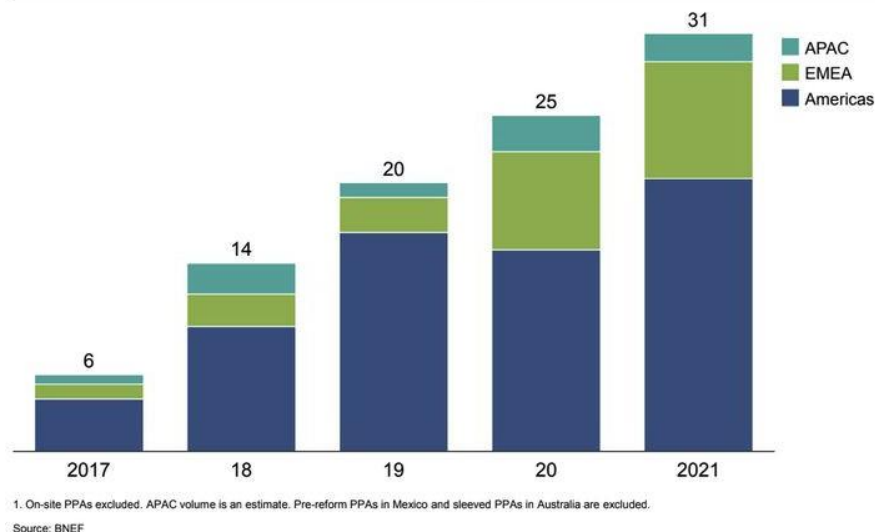
800 TWh (30% total electricity) Green Demand in EU

5X Growth in PPA Demand in Past Five Years, 10s bns \$\$\$ of clean investments

Figure 2 **Historic cancellation growth by country**



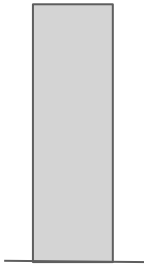
**Corporate renewable PPAs<sup>1</sup> announced per year, GW**



# 100% Renewable does not mean zero carbon emissions

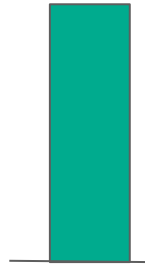
100% annual wind PPA contract...

100 MWh  
Electricity  
consumption



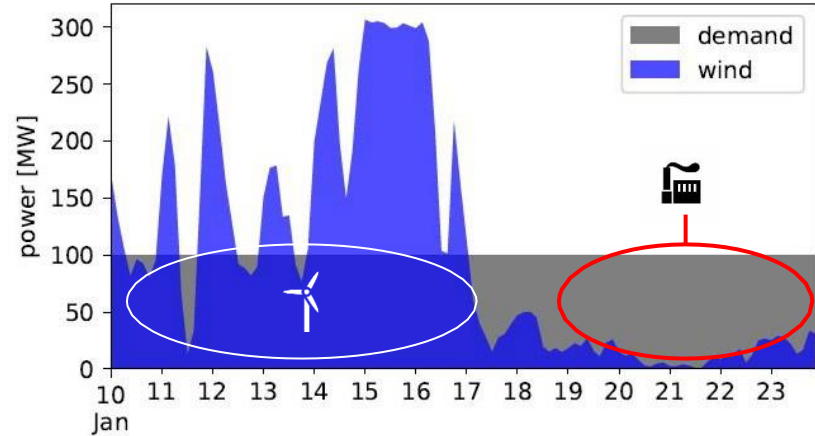
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100 MWh  
Renewable  
production



An annual balance of renewable energy volumes...

...does not mean the wind blows every hour of the day.



...sometimes relies on hours with dirty power plants feeding the grid.

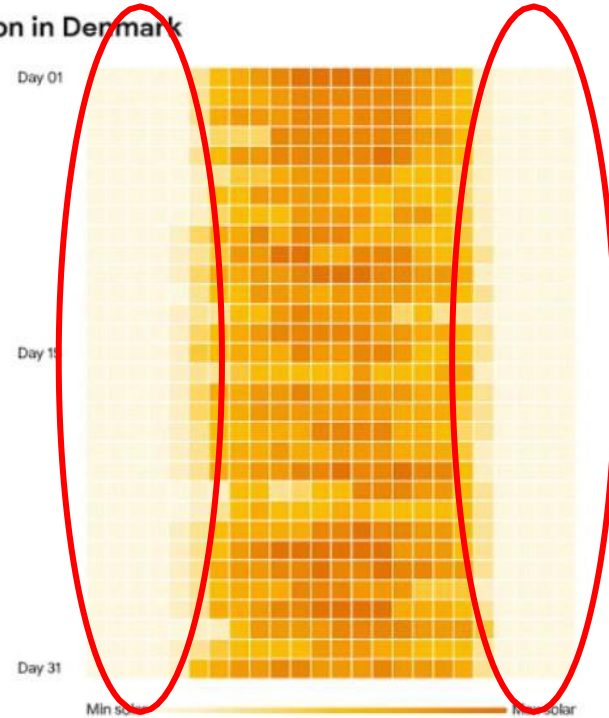
# 24/7 hourly traceability is the only solution for accurate carbon accounting



Google-contracted solar production in Denmark



**Annual Tracking**  
(Energy Attribute Certificates)



**Hourly Tracking**  
(Granular Certificates)





# What is 24/7 CFE?

“

*24/7 Carbon-free Electricity procurement is to match a buyer's electricity demand, **hour-by-hour**, 24/7, with corresponding clean electricity generation **from within the same electricity grid region** as the buyer's operations.”*

(Source: Princeton University Zero Lab)

# 24/7 CFE is the only way to truly reflect the carbon emissions of the electricity you procure

**100% RENEWABLE**  
(annual matching)



“Reduce emissions”

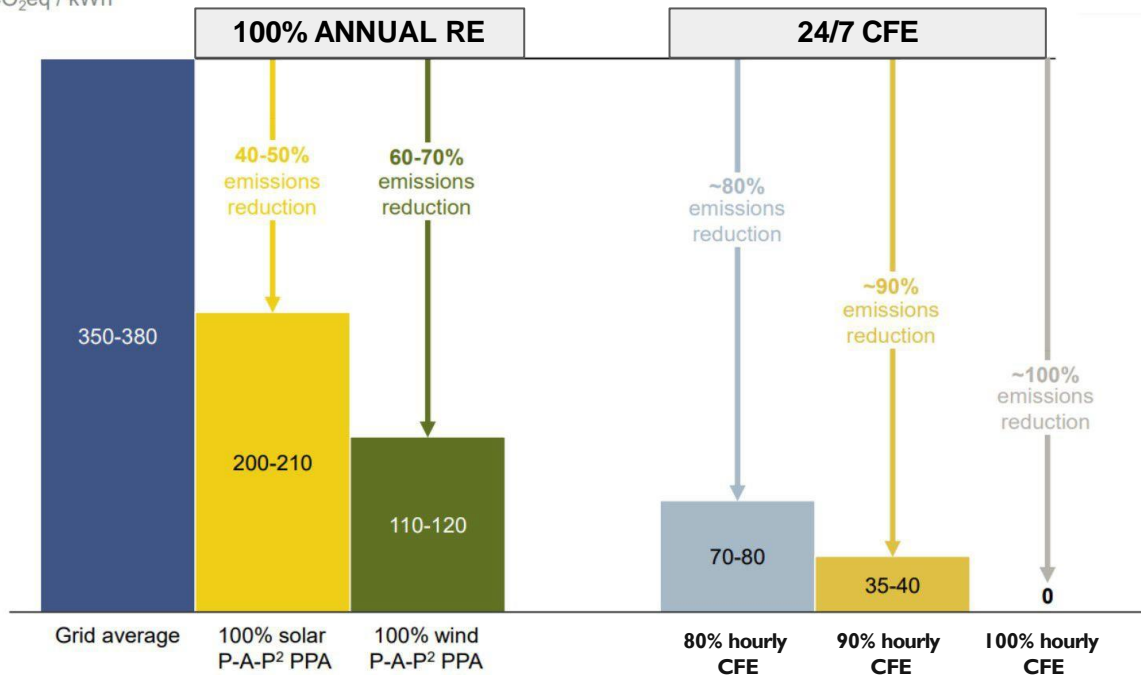
**24/7 CARBON-FREE ENERGY**  
(hourly matching)



“Eliminate emissions”

## Paradigm shift - several studies show that 24/7 CFE leads to greater emissions reduction even without achieving 100% hourly CFE

Emissions intensity of different power procurement options  
gCO<sub>2</sub>eq / kWh



Source: McKinsey, 2022



## Barriers for widespread adoption and who is tackling them

Lack of recognition and  
incentive schemes



United Nations



WORLD  
RESOURCES  
INSTITUTE



GREENHOUSE  
GAS PROTOCOL

RE100

CLIMATE  
GROUP



Lack of energy certificate  
schemes suited for 24/7



EnergyTag



European  
Commission

Lack of easy and scalable  
data access



eurelectric

entsoe

ELF ENERGY

# About FlexiDAO

We help companies navigate through the 24/7 CFE journey to truly eliminate emissions, avoiding costs & risks.

## CO-CREATING GLOBAL STANDARDS



## SOME OF OUR CUSTOMERS & PARTNERS TO DATE



## TECHNOLOGY FOR THE PRESENT AND FUTURE

Our end-to-end 24/7 Carbon-free Energy platform:

**Today we offer** data, analytics & portfolio management for 24/7 CFE procurement

**Working on** the future market for granular certification of energy through blockchain