

# Breakbulk Americas 2022 US Energy Project Market Outlook

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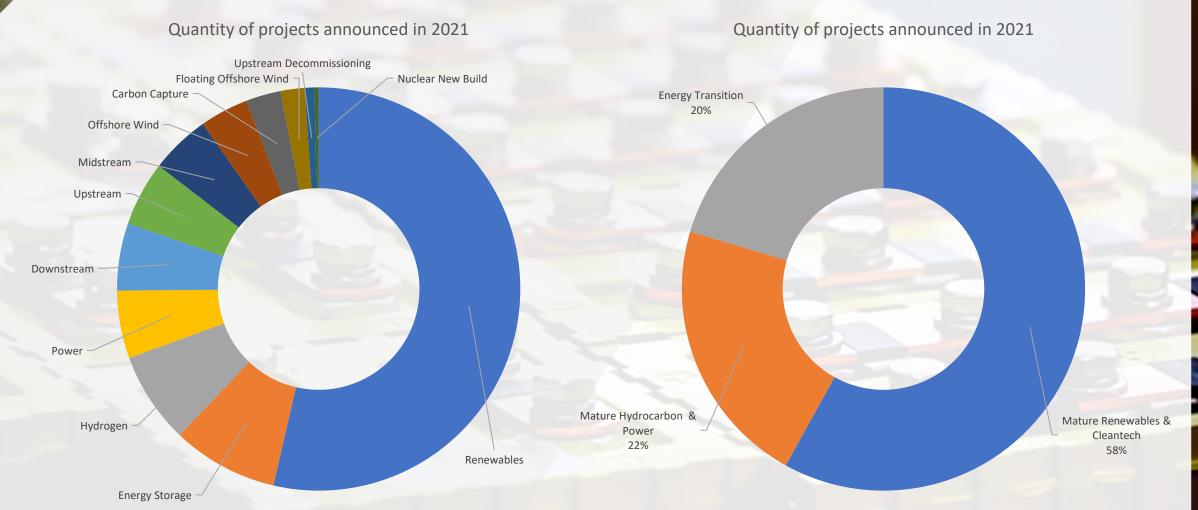
September 28, 2022



- Review of 2021 and 2022 to date
  - Energy project review
- 2022 and beyond in the US
  - Oil and Gas
  - Renewables Offshore Wind Focus
  - Hydrogen
  - Carbon Capture
- Opportunities in Latin America and the Caribbean
- Summary remarks

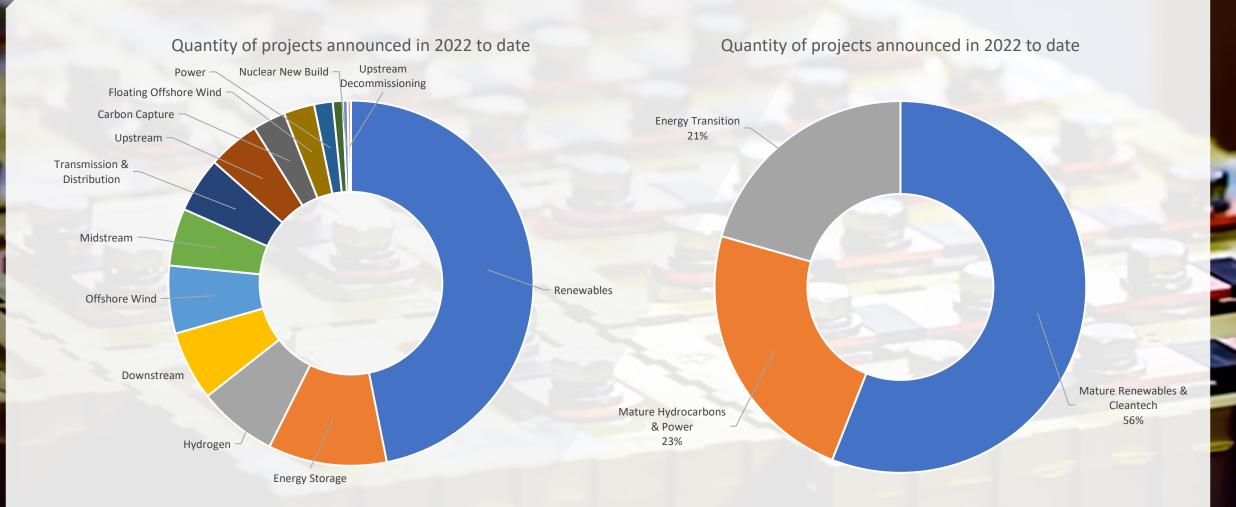


### Total new development proposals globally - 2021



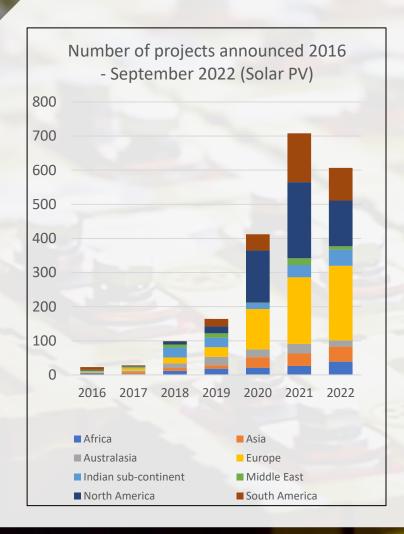


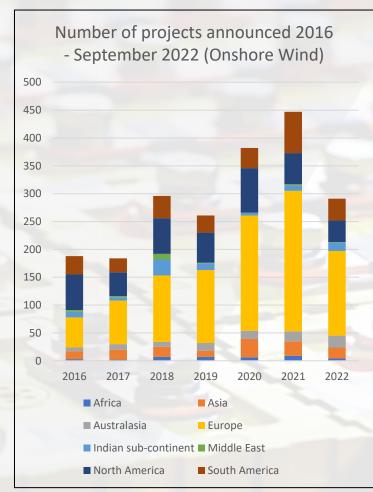
Total new development proposals globally – Up to September 2022

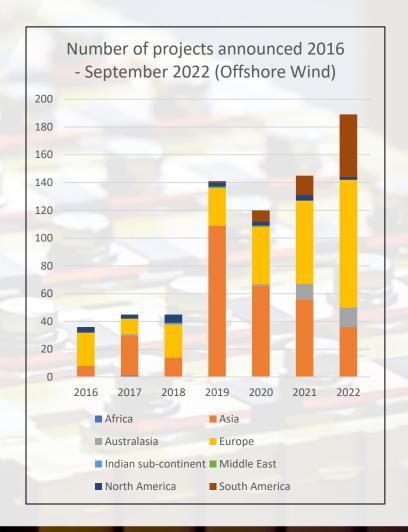




#### **Project announcements – Renewables**

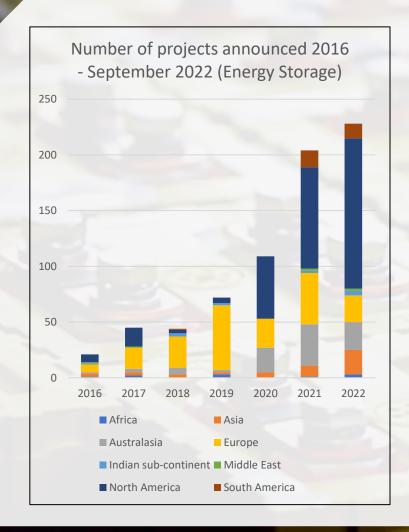


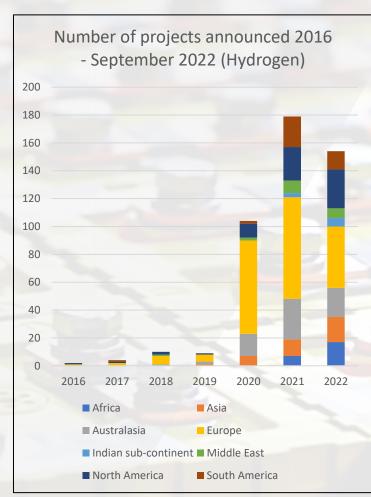


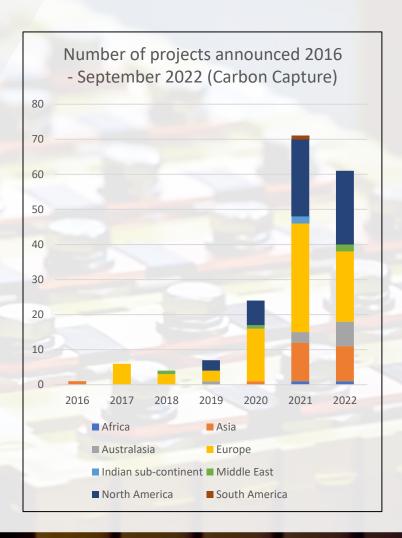




#### **Project announcement – Energy Transition**

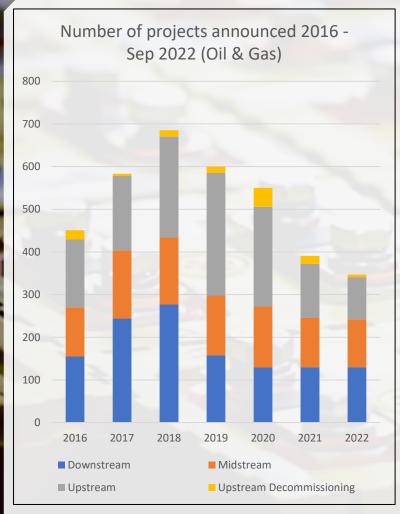


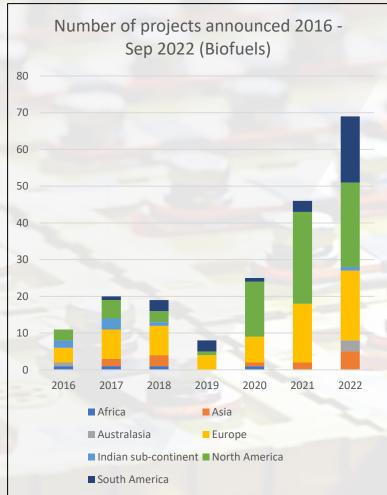


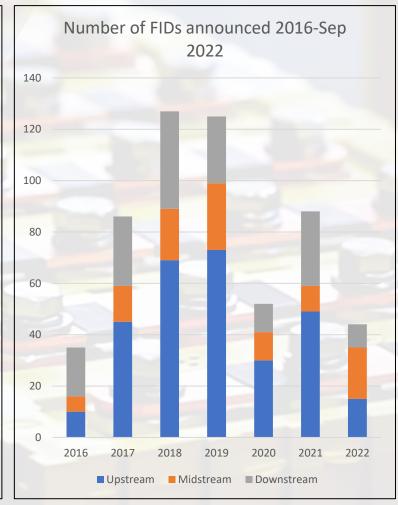




#### Project announcements / FIDs reached - Oil & Gas





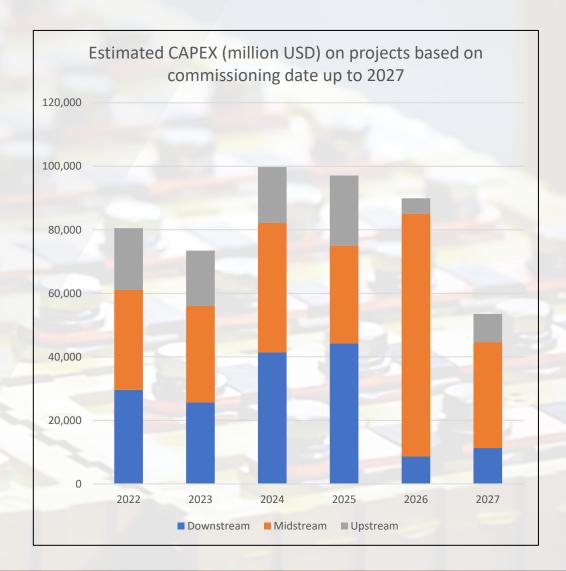


Source: EICDataStream



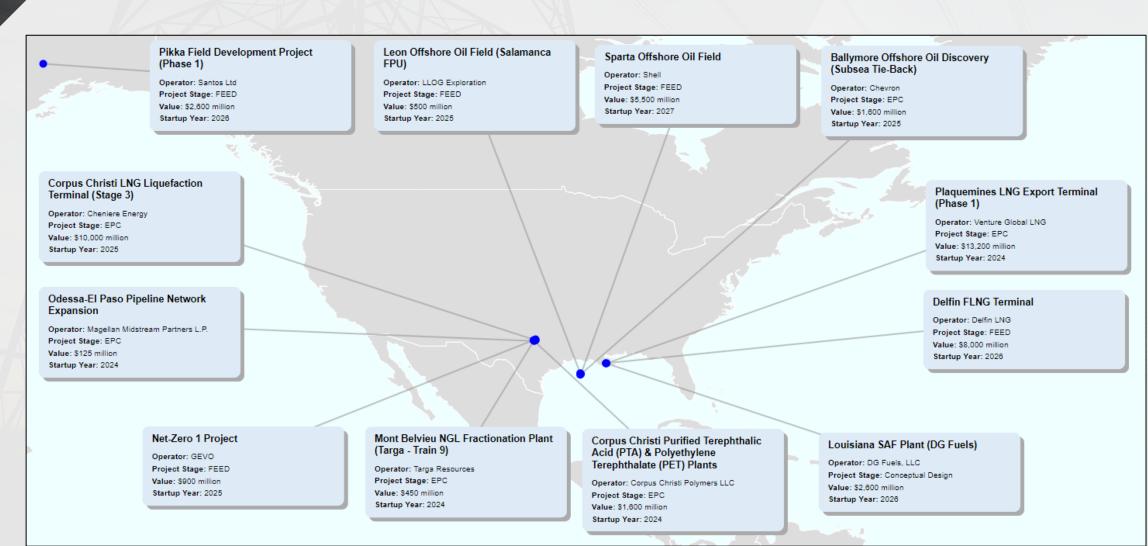
# US 2022 and beyond | Oil and Gas

- Lease sale 257 results reinstated by BOEM, as required by Inflation Reduction Act
- Investment in new transport capacity as production from Permian and Haynesville increases
- Great opportunity for LNG new export terminals and expansion projects supported by increased European demand
- Uptick in number of biofuel plants, including renewable diesel and sustainable aviation fuel (SAF)





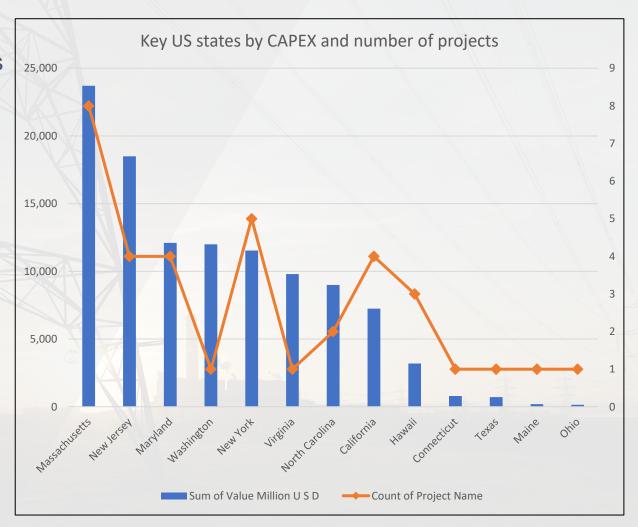
## **Projects of interest | Oil and Gas**





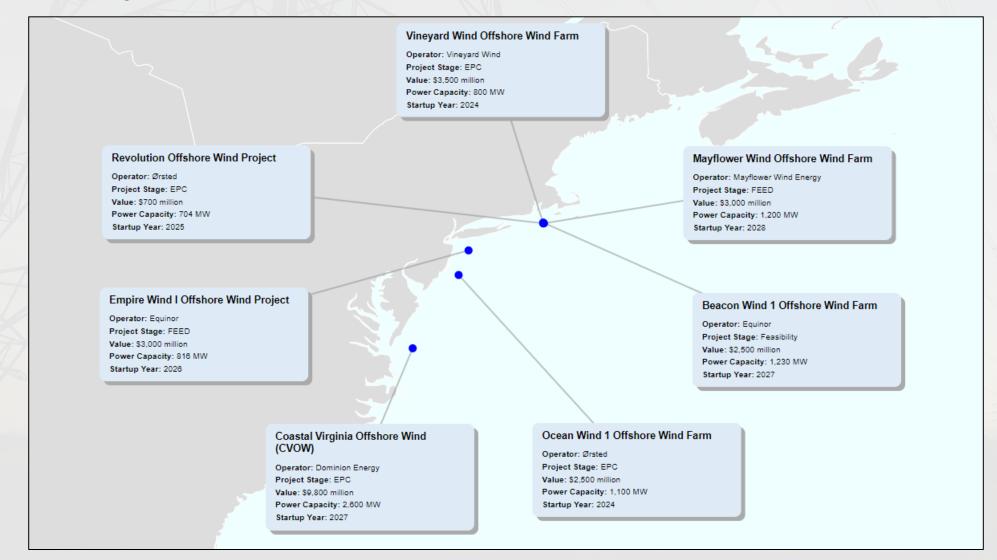
# 2022 and beyond | Offshore Wind

- 30GW by 2030; 15GW of FOW by 2035
- Carolina Long Bay lease sale awarded areas to Duke Energy and TotalEnergies
- California lease sale expected in Q4 2022,
   GoM lease sale in early 2023
- IRA tie-in to O&G lease sales
- Skanska awarded US\$232m contract for redevelopment of Portsmouth Marine Terminal
- NYSERDA has launched its 3° offshore wind solicitation. Proposals expected in 2early 2023





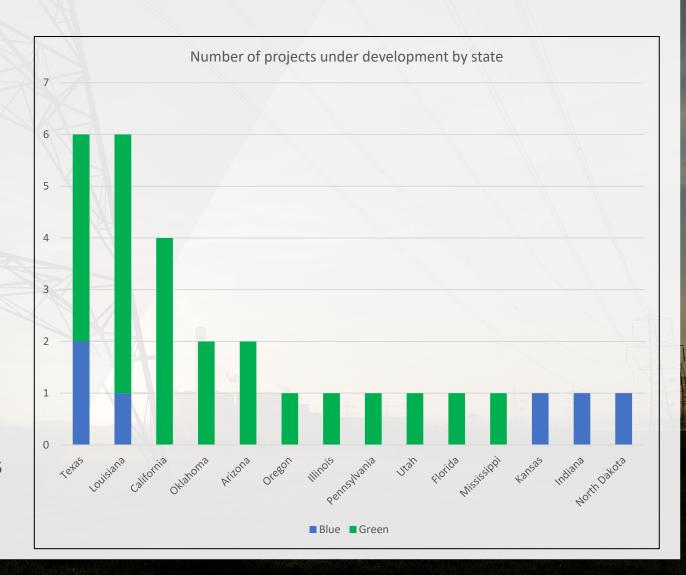
# **Project opportunities | Offshore Wind**





# 2022 and beyond | Hydrogen

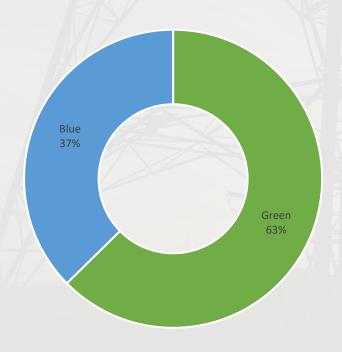
- Inflation Reduction Act and the production tax credits to clean hydrogen:
  - Up to US\$3/kg of green H2
  - Depends on levels of lifecycle emissions and staff wages
  - Estimates for blue H2 at US\$0.75/kg
- Massive market for electrolyzer manufacturers
- Great opportunity to decarbonize sectors such as steel and fertilizers

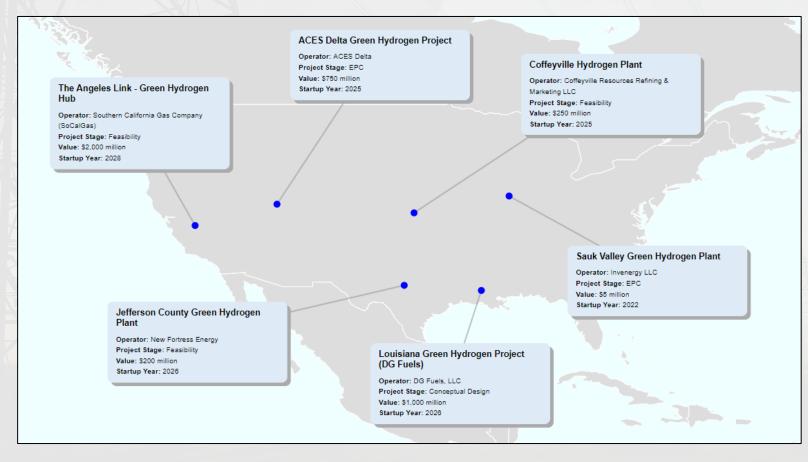




# Project opportunities | Hydrogen

CAPEX comparison for commercial scale H2 projects proposed in the US

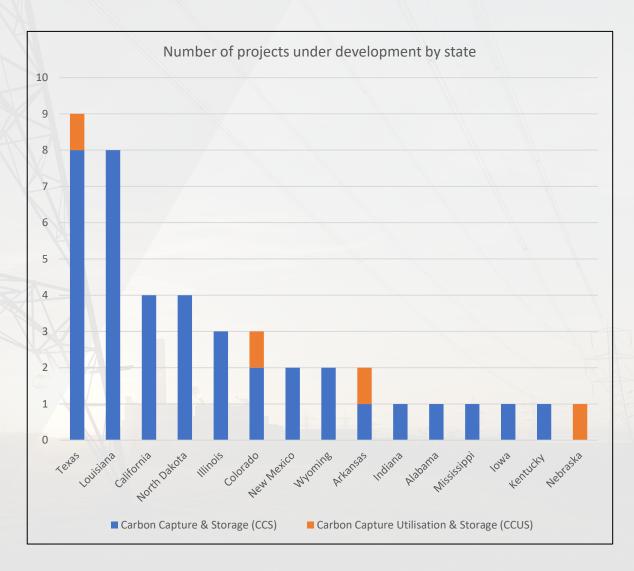






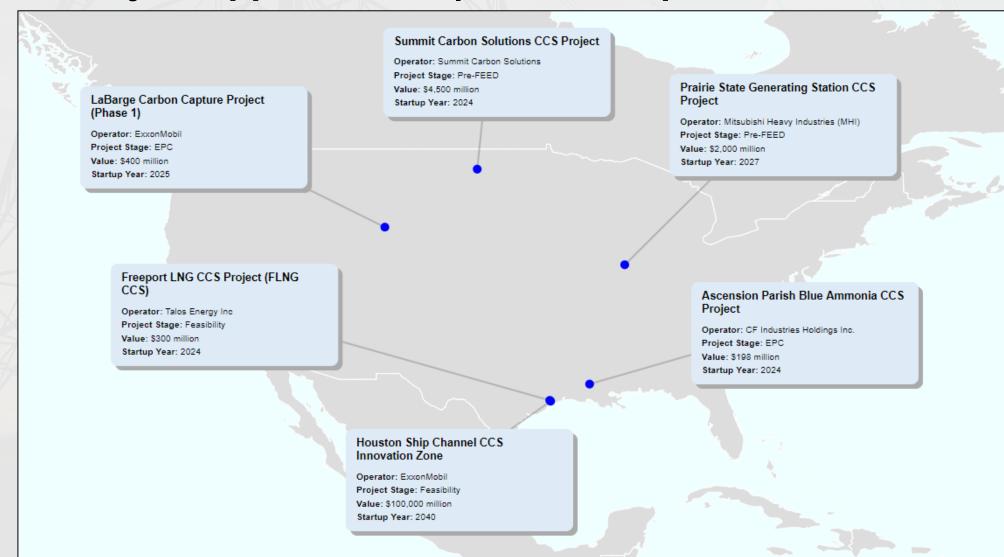
## 2022 and beyond | Carbon Capture

- IRA provides tax credits to CO2
   sequestration and EOR US\$85 and
   US\$60 per metric ton, respectively
- Additional funding via Carbon Capture
   Demonstration Projects Program –
   US\$2.54bn
- US\$100bn CCS hub in Houston Ship Channel announced ExxonMobil



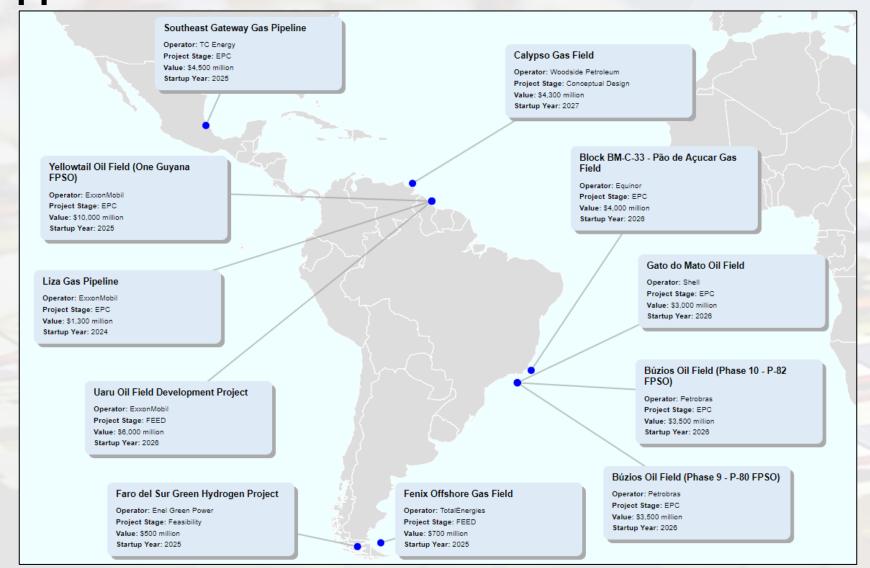


# **Project opportunities | Carbon Capture**



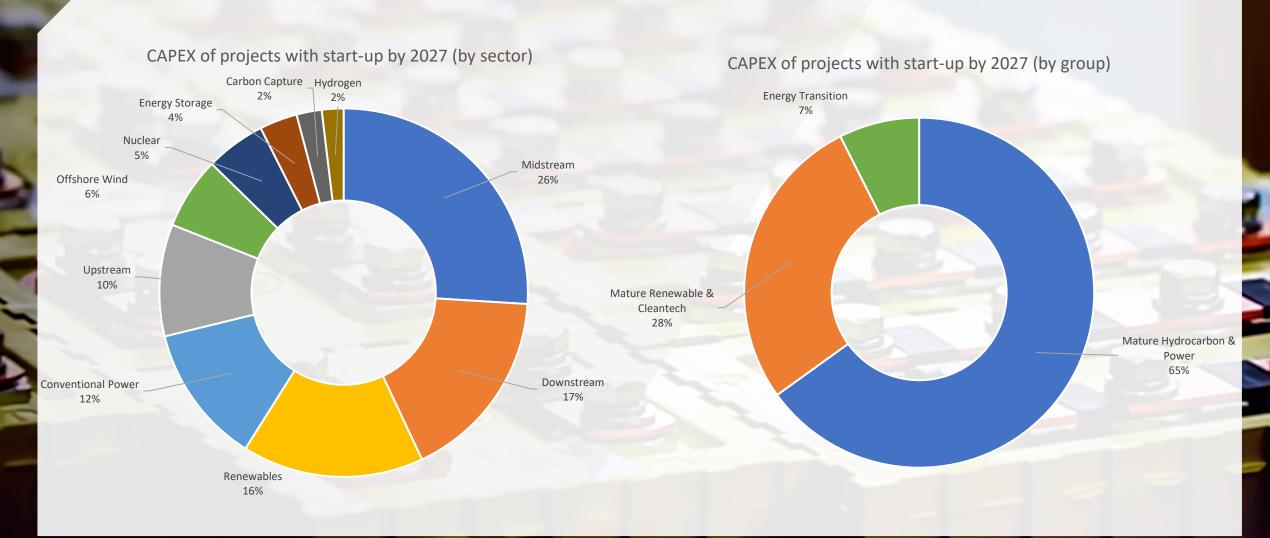


### **Opportunities across Latin America and Caribbean**





# **Summary remarks: near-term opportunities**





# Thank you.

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