NPB NORDIC INVESTMEN BANK FINANCING THE FUTURE

# Financing Perspective on CCUS

Lena Korkea-aho Nordic Investment Bank







## We are committed to a prosperous and sustainable Nordic-Baltic region

**NIB - an International Financial Institution founded in 1975** 

### **NIB** in brief

- Mandate to enable productivity gains and facilitate environmental benefits
- Long-term financing, operate commercially based on sound banking principles
- Attractive financing terms based on NIB's AAA/Aaa rating
- EUR 3-5 billion in disbursements, 60 transactions and 30 new clients annually
- Leading issuer of green bonds in the Nordic-Baltic region

### **Nordic-Baltic ownership**



## How NIB would look at a "new" technology and sector



## **CCUS investment needs**

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CCUS has so far not lived up to its expectations - its potential to mitigate climate change has been recognized for years, but deployment has been slow

Stronger climate targets and investment incentives are injecting new momentum into CCUS

To stay on track to reach Net Zero Emissions by 2050 **annual investments of 205bn USD are needed** until 2030 in CCUS development *(IEA)* 



Huge investment gap to bridge!



#### **Global CO2 capture by source in the Net Zero Emissions scenario**

# **Drivers for accelerated CCUS development**



CO2 emissions from the "hard-to-abate" sectors steel, plastics, ammonia and cement account for 20% of global CO2 emissions

#### $\rightarrow$ CCUS is key to reach net-zero emissions



Source: Material Economics, Industrial Transformation 2050, Pathways to Net-Zero Emissions from EU Heavy Industry

# Declining cost curves and increasing carbon prices make economics more attractive



Price of European carbon permits



Source: Global CCS Institute, Technology readiness and cost of CCS

The price of carbon is increasing

## **NIB's view on CCUS**

- > Only a part of the solution to climate change not a silver bullet
- > The origin of the  $CO_2$  and the application/economic activity that the CCS is applied for are key
- Efficiency dimension (how much do we need to capture?)



#### **Carbon storage**

Geological storage with fixation

Geological storage in reservoir

Carbon Use carbon fixed in long term products

Enhanced Oil Recovery (EOR)



## Making CCUS bankable

- Different stages of market development require different approaches to financing
- The innovation stage is higher risk and banks would look at this carefully
- Risk-sharing is key during early investment stages
- Once a technology and process
  is proven, direct debt becomes
  feasible



Source: Material Economics, Industrial Transformation 2050, Pathways to Net-Zero Emissions from EU Heavy Industry



## Thank you!

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