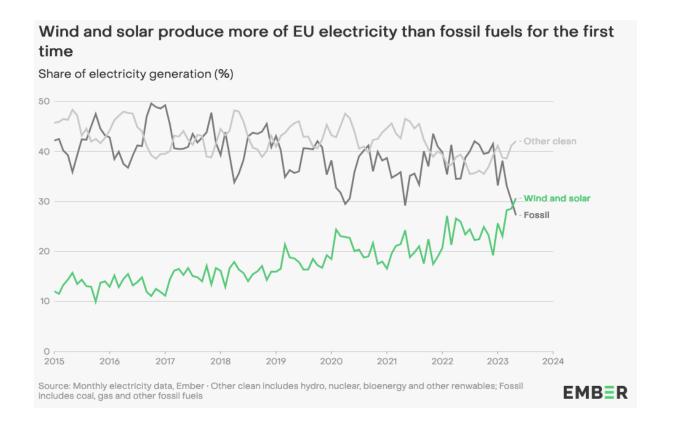


Here is a sustainability transition that "works"

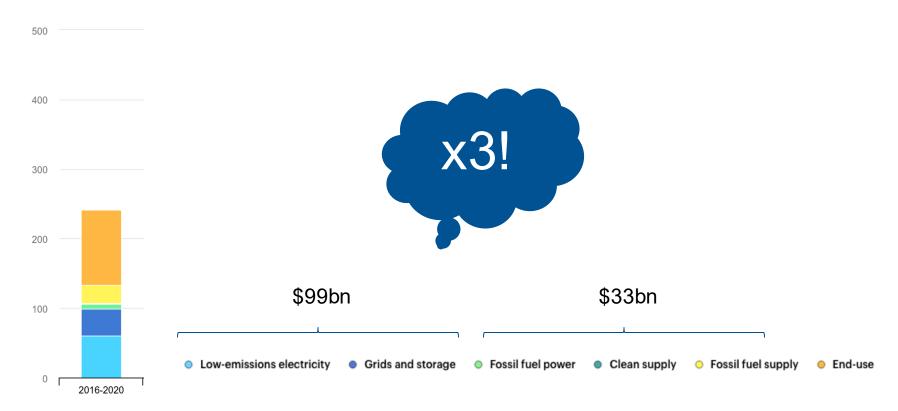




Source: ember

What is the precursor of this?



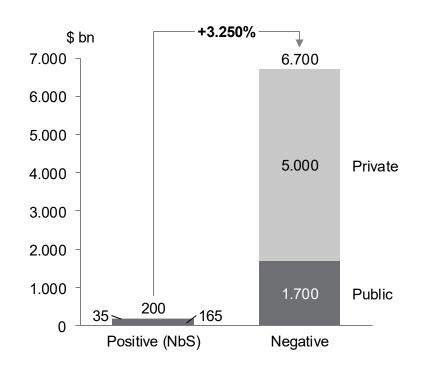


Nature is the same but different...









What's financially different?



- A. Is there a **market** with revenues?
- B. Is there a **technological substitution?**
 - A. What is the learning rate of the new technology?
 - B. What is the capital intensity of the new technology?
- C. Is there a **geographic shift** in activity (e.g., global south)?

Source: Own work 5

A. Market



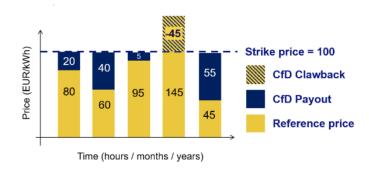


Figure 1 Basic functioning of CfD payments

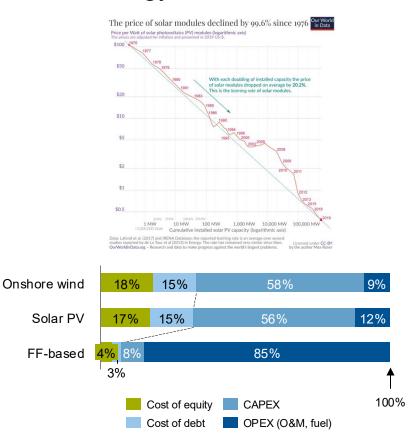
Policymaker cannot pay the full cost

→ Depends on the type of biodiversity investment

Source: Kitzing et al., 2024 (EUI FSR)

B. Technology





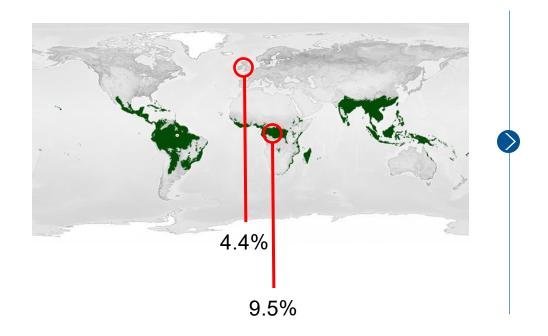
Policymaker can shoulder cost if it **bridges** to a functioning market

Policymaker can **leverage its low-risk capital** if new tech is capital intensive

Source: Our World in Data, 2023

C. Geography



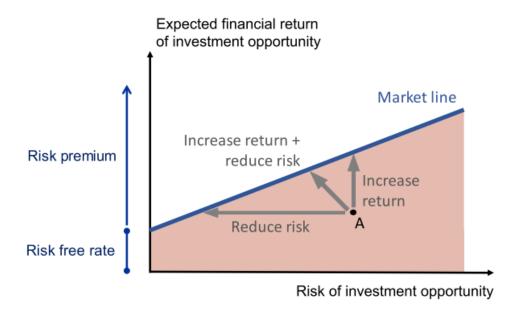


Cost of finance becomes more critical if the investment ought to happen in **higher-risk countries**

Source: Nasa Earth Observatory, 2024

Reducing risk > increasing return



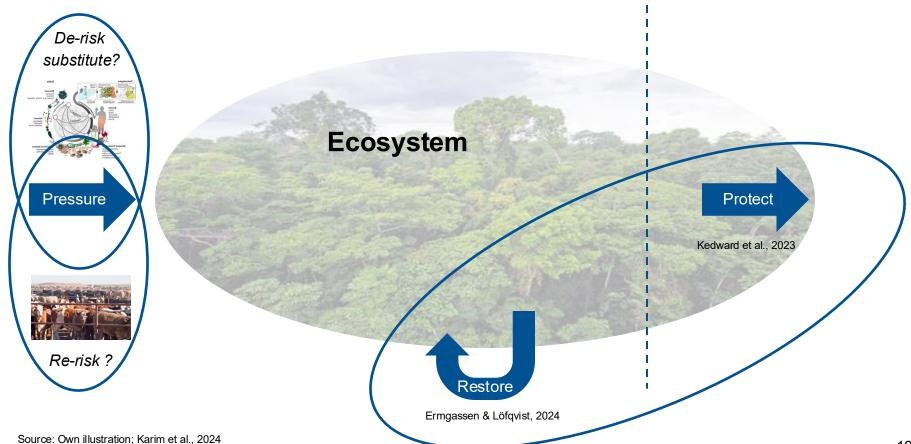


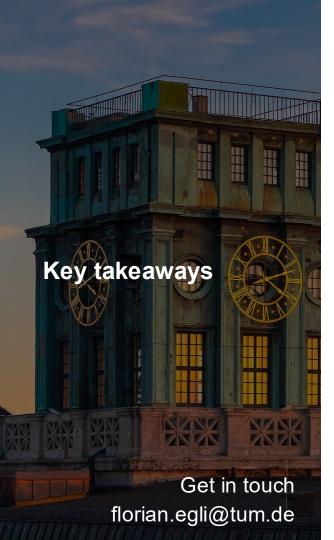
Policy instrument	Risk	Return
Carbon price	×	✓
Guarantee	✓	*
FiT	✓	✓

Source: Polzin et al., 2019

Where is the potential for de-risking and private finance?









The challenge

Too large for public investment only

The candidates for leveraging private finance

- Can sell into a market (need to create markets?)
- Can leverage technology learning curves

Low-cost public capital particularly useful

- For capital intensive technology
- In high-risk markets / countries