Greening the Financial System

Aerdt Houben, Director Financial Markets

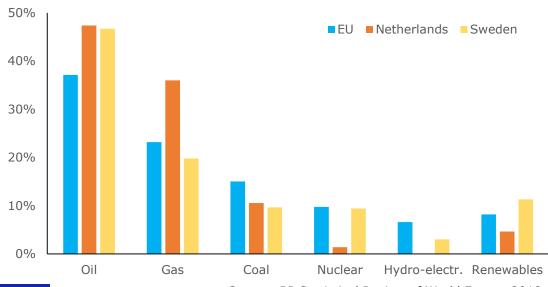
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DeNederlandscheBank

EUROSYSTEEM

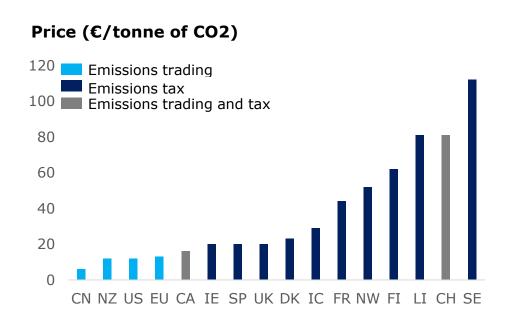
Climate change is one of the biggest challenges facing our economy

Economy still reliant on oil and gas (% of total energy consumption in2017)



Role of Governments / EU

Effective carbon pricing (price, scope, and system)



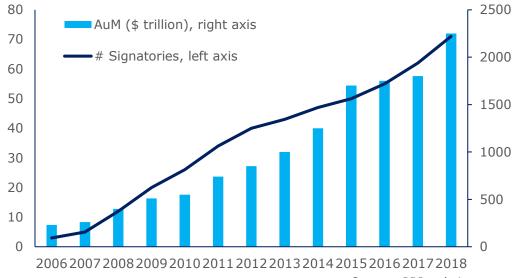
Country	Coverage (% total emission)
Spain	0-10%
Iceland	20-30%
Liechtenstein	20-30%
UK	20-30%
China (various regions)	30-40%
France	30-40%
Finland	30-40%
Switzerland	30-40%
Denmark	40-50%
EU	40-50%
Ireland	40-50%
Sweden	40-50%
New Zealand	50%
Canada (various regions)	40-70%
Norway	60-70%
USA (various states)	60-90%



Role of Central Banks

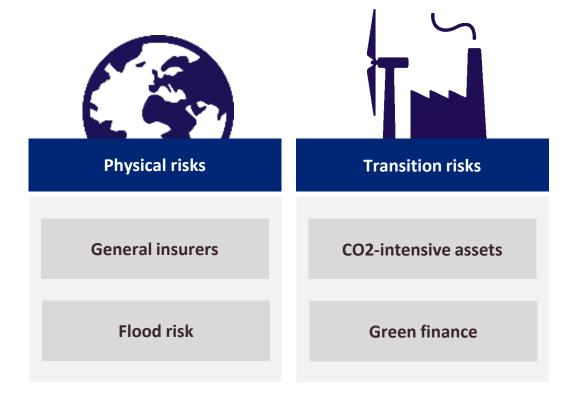
- Direct impact of incorporating ESG in CB reserves management is limited;
- But it is important signal to financial sector ("practice what you preach");
- DNB signed PRI and published Charter on ESG in reserve management

Growing number of investors committed to PRI





Role of supervisors



Supervisors' and central banks' call for action

Central banks and supervisors



Integrating climate-related risks into financial stability monitoring and micro-supervision.

Policy makers



Achieving robust and internationally consistent climate- and environment-related disclosure.

2.

Integrating sustainability factors into own-portfolio management.

6.



Supporting the development of a taxonomy of economic activities.

3.



Bridging the data gaps.

4.



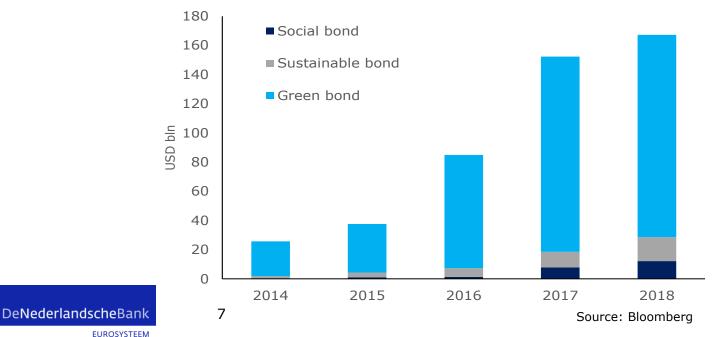
Building awareness and intellectual capacity and encouraging technical assistance and knowledge sharing.



Role of financial markets

Rapid growth of green, sustainable and social bond markets...

- Green bond market rapidly growing
- Social and sustainability bond supply is up 95% YoY so far in 2019



Role of financial markets

...but the market needs to be further stimulated and regulated

- €180 billion per year: estimated additional annual investment needed in the EU to meet its climate targets for 2030
- Clarity on what is "green / sustainable"
 - EU Taxonomy
 - EU Green bond standard
 - EU Benchmark for low-carbon investment strategies
 - Climate-related disclosures
 - ESG scores by rating agencies
 - Information in issuers' prospectus

