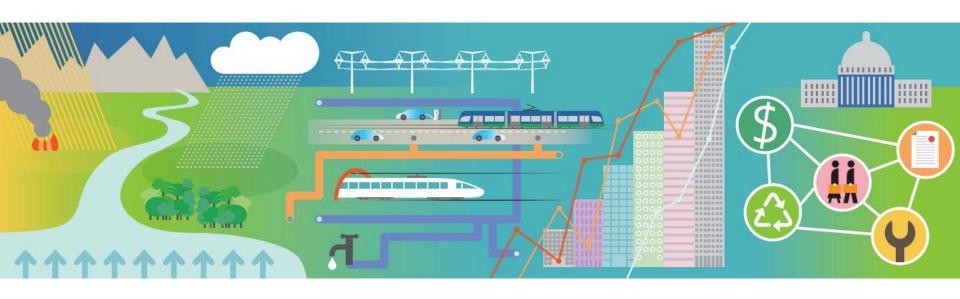
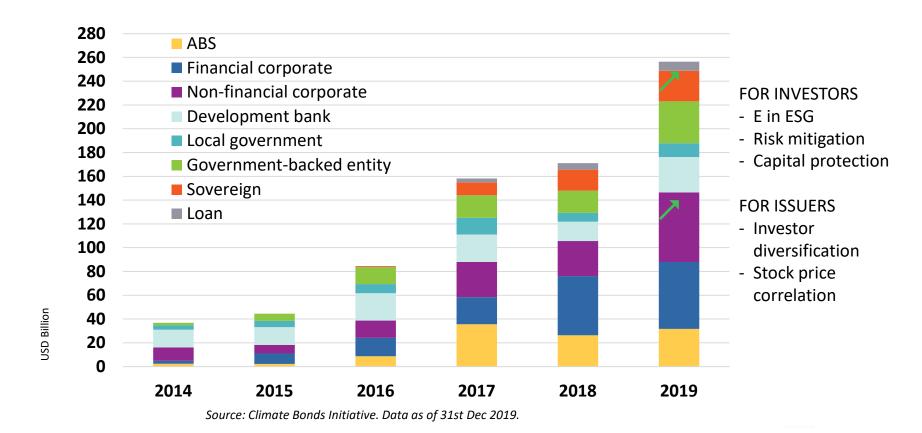
# **Green bonds & property**



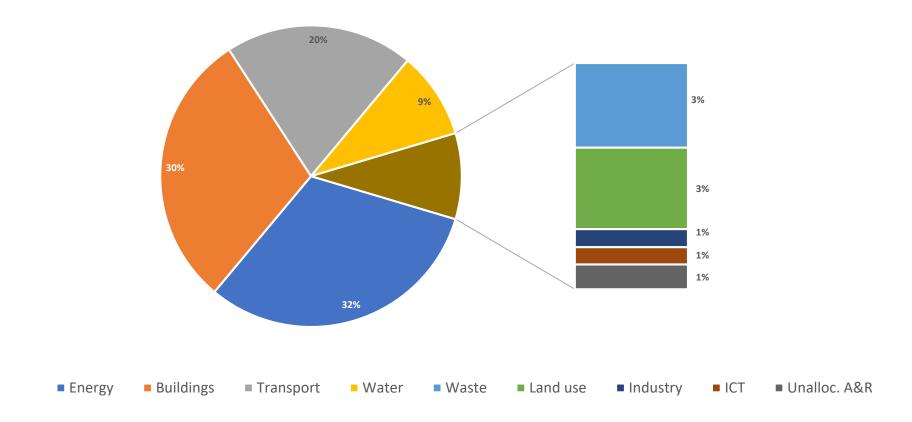
Sean Kidney



# **Green bonds growth**



# Green property bonds made up 30% of last year's total



# **Examples**

Corporate CDL - \$440m

Vasakronan - \$3.4bn

Japan REIT - \$250m

Bank Barclays - \$500m

LBBW - \$4.3bn

Barclays - \$500m

ABN AMRO - \$3bn

ABS Obvion - \$2.6bn

Fannie Mae - \$21bn

BerlinHyp - \$4.5bn

Government Canton of Geneva - \$1.27bn

NY State Housing - \$1.8bn

Republic of Lithuania - \$7.7m



# **EU Taxonomy - common language**

Science-based
Leverage existing labels
Dynamic

# Substantially contribute to at least one of the six environmental objectives as defined in the proposed Regulation Do no significant harm to any of the other five environmental objecties as defined in the proposed Regulation Comply with minimum safeguards

Climate mitigation & adaptation Circular economy Protection of marine resources Pollution prevention Biodiversity restoration

- 1. Investors, corporations, banks
- 2. Corporates
- 3. EU Member States



# **Different layers of Taxonomy**

### Already low carbon

Very low, zero or net negative emissions Compatible with net zero CO2 economy by 2050 Likely to be stable and long term

- Renewable energy
- Zero emissions transport
- Afforestation

### **Enabling** emission reductions

...in the first two types of activities

Consistent with those activities being enabled

- Manufacture of wind turbines
- Installing efficient boilers in buildings

### Contributing to transition

...to a net zero emissions economy in 2050

Likely to be revised regularly and tightened over time

Building renovation

- Electricity generation <100gCO2/kWh</li>
- Cars <50g CO2/km</li>

### Adaptation & resilience

Adapting to survive climate change or supporting adaptation

- Infrastructure hardening
- Resilience measures
- Climate risk advisory services



# **Proposed rules**



**Electricity: 100gms Coe/KWh** 

Solar, wind, geothermal, hydro Gas only if with CCS



Storage, transmission





**Transport** Zero tailpipe & very low emissions: electric, hydrogen





Energy efficiency, adaptation



**Buildings** 

Top 15%, or 30% improvements Supply chain / SMEs



IC1



Landuse

Maintaining carbon
Improving carbon
Best practice farming



Manufacturing
Transitions
Components

Aluminium
Steel
Concrete
Plastics



### **Thresholds**

### 1. Ownership or acquisition: Energy performance is in top 15% of similar stock

Applies only to buildings built before 2021

- 1. Large non-residential buildings have to also have dedicated energy management systems
- 2. Proxies: EPCs
- 3. CBI emission thresholds
- 4. LEED, BREEAM, etc.



### 2. Renovations: Delivers 30% energy savings

Or, the renovation complies with the relevant 'major renovation' requirements EPBD

### 3. Newbuild: Near-Zero-Energy-Building (NZEB), less 20%

The net primary energy demand of new construction must be at least 20% lower than the primary energy demand resulting from the relevant NZEB requirements that are mandatory in Europe from 2021



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### **Examples**

Adding insulation; replacing windows or doors with new energy efficient ones.

Installing of low-flow kitchen in top two categories of the EU Water Label scheme.

Installing efficient LED lighting, zoned thermostats, smart thermostat systems and sensoring equipment.

Building Management Systems and Energy Management Systems.

Charging stations for electric vehicles.

Smart meters for gas and electricity.

Solar PV, solar hot water, wind turbines, electric energy storage units

Installation and upgrade of heat pumps

Installation and replacement of HVAC and domestic hot water systems.

Replacement of old pumps with efficient circulating pumps

Technical consultations linked to individual measures; energy audits; building performance assessments.

Energy Management Services, energy performance contracts, or energy Services provided by ESCOs



# Do No Significant Harm (DNSH) requirements

	Ownership	Renovations	Newbuild
*Min. 80% of non-hazardous C&D waste diverted from landfill*		<b>~</b>	<b>~</b>
*No asbestos		<b>✓</b>	<b>V</b>
*Site has to be checked to make sure it isn't contaminated. If it is, an assessment is needed that meets national methodology	<b>~</b>		<b>~</b>
*Non-road mobile machinery used in construction process (covered by regulatory requirements in EU)			<b>~</b>
*No building in protected natural areas or land of recognised high biodiversity value	<b>~</b>		<b>~</b>
Top 2 classes of EU Water label for new water appliances		<b>~</b>	<b>~</b>
Timber products: at least 80% certified FSC or PEFC		<b>~</b>	<b>V</b>
(Reducing material physical climate risks)	<b>~</b>	<b>~</b>	<b>~</b>

### **Next**

Making it simple: building labelling & EPCs

Jobs: recovery investment in energy efficiency

**Incentives** 

Scale: municipal Opt-out schemes

**EuroPACE** 



https://ec.europa.eu/info/publications/sustainable-finance-teg-taxonomy\_en

