

Mobilising institutional investors and the bond markets for renewable energy infrastructure

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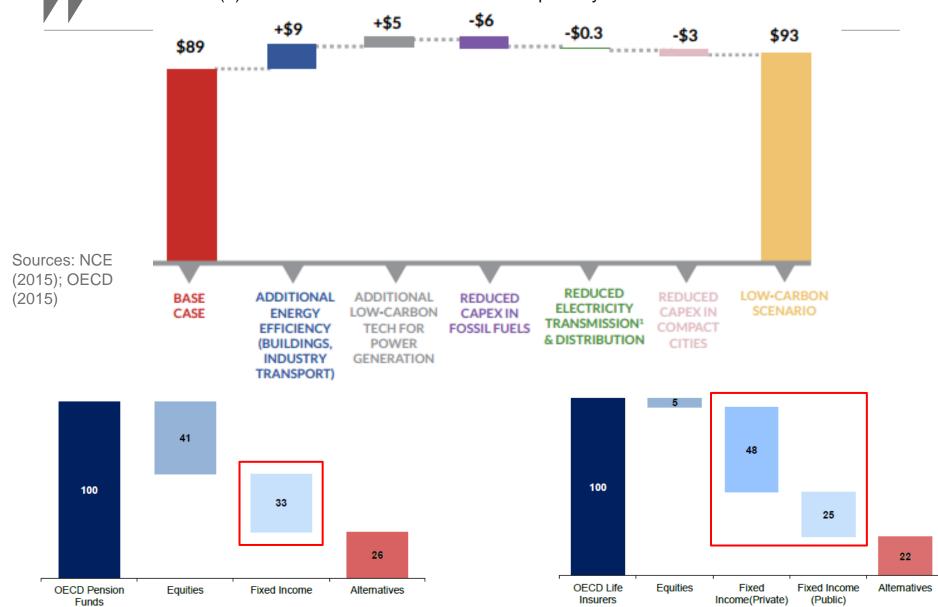


CONTEXT – ALIGNING THE TRILLIONS

(1) \$93 to investment needs in the next 15 years for a low carbon scenario

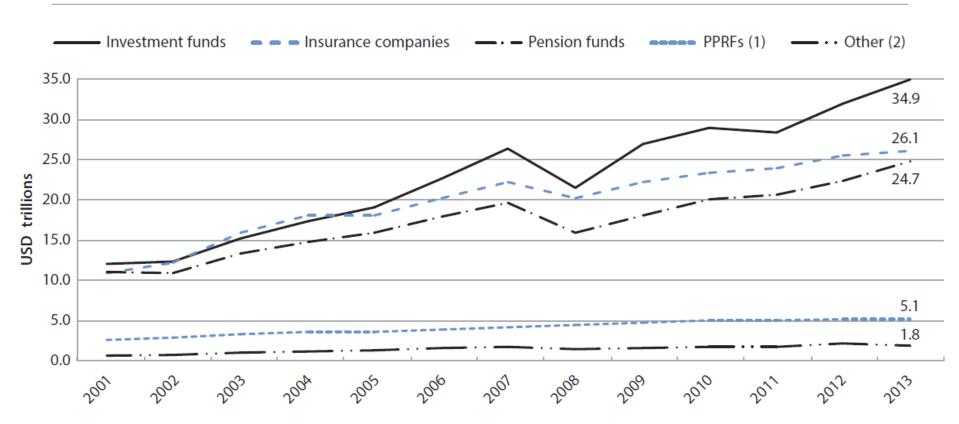
(2) \$120 to institutional investors are largest investors in the \$97 to debt capital securities markets (2) Asset allegation favours bands approximately for insurance

(3) Asset allocation favours bonds – especially for insurers





1% of large OECD pension fund assets invested directly in infrastructure



Source: OECD Global Pension Statistics, Global Insurance Statistics and Institutional Investors databases, and OECD staff estimates.

^{*} based on large OECD pension funds, covering \$10+tn

^{* *} BNEF estimates



What are the barriers to institutional investment in renewable energy infrastructure?

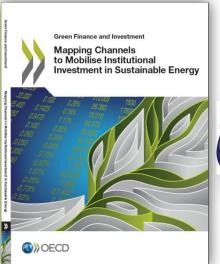
- Weak, uncertain or counterproductive environmental, energy and climate
 - policies
 - time consuming due diligence; higher transaction costs;
- Regulatory policies with unintended consequences
- A lack of suitable financial vehicles with attributes sought by institutional investors
- A shortage of objective information, skills and data to assess transactions and underlying risks



OECD policy recommendations for G20: Overcoming barriers and mobilising institutional investors for renewable energy infrastructure

Barriers to institutional investment

- Weak, uncertain or counterproductive environmental, energy and climate policies
- Regulatory policies with unintended consequences
- Lack of suitable financial vehicles with attributes sought by institutional investors
- Shortage of information. knowledge and data to assess portfolios and investments and underlying risks/returns





Establish pre-conditions for institutional investment

Ensure a stable "investment grade" policy environment - evaluate and fix unintended regulatory impacts

Address market failures (incl. lack of carbon pricing & remove fossil fuel subsidies)

Provide a national infrastructure road map & pipeline

Facilitate the development of liquid financing instruments (e.g. green bonds) and risk mitigants

Promote market transparency, disclosure, standardisation and improve data availability

Reduce the transaction costs of green investment

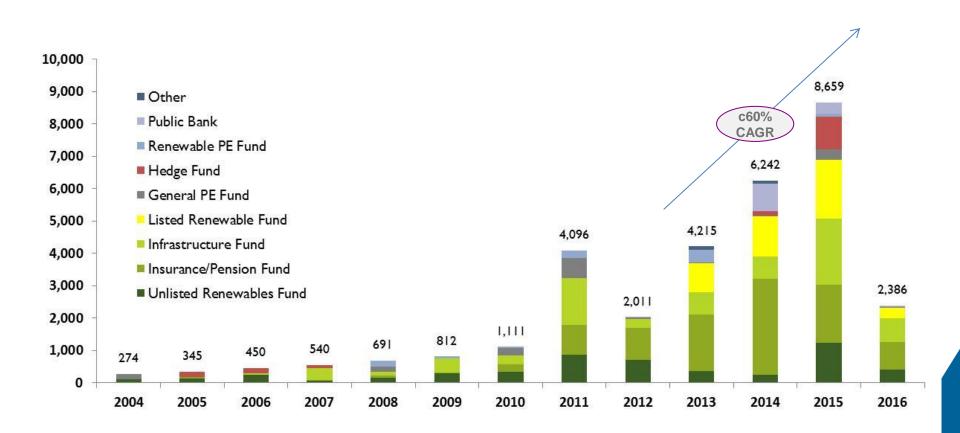
Establish a "green investment bank" or refocus existing public financial institutions

Source: OECD, 2015: http://dx.doi.org/10.1787/9789264224582-en



Rapid growth in institutional equity investment in European renewable energy infrastructure

INSTITUTIONAL EQUITY INVESTMENT IN EU RENEWABLE PROJECTS (€ MM.) BY INVESTOR TYPE



Source: OECD, 2016 forthcoming (based on HgCapital data):

