

REPLY VIRTUAL EVENT

ROUNDTABLE ON THE SUSTAINABLE FINANCE, CLIMATE AND ESG RISKS: CHALLENGES AND OPPORTUNITIES IN FINANCIAL SERVICES

November 24, 2020

Moderated by Chris Rossi of Avantage Reply





Imperial College London







AGENDA

- 1. Introduction 5 minutes
- 2. Speaker presentations 40 minutes
- 3. Q&A with speakers and the public



WHY ARE WE TALKING ABOUT SUSTAINABLE FINANCE?

The basics

The European Commission states that "Sustainable finance generally refers to the process of taking due account of environmental, social and governance (ESG) considerations when making investment decisions in the financial sector, leading to increased longer-term investments into sustainable economic activities and projects."

Public Policy and Markets Converge

Sustainable Development Goals (UN) compel policy makers to **rethink the orientation of economies to mitigate GHG emissions**, among other things.

Public policies promoting sustainability throughout the world focus a lot of attention on financial markets.

Many financial organizations are major proponents of sustainable finance anyway. Why?

The Market is a driving force.



The ordinary person is impacted

Sustainability is **increasingly important** to ordinary people.

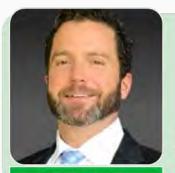
You play a role in sustainable finance as a member of society as sustainability becomes ingrained in economic policy. Economic prosperity is perhaps the largest driver of a prosperous society.

The bottom line: sustainable finance highlights the concept that we are all stakeholders.





A WARM WELCOME TO OUR PANELISTS!



Stephen Perich – Managing Director | Head of Energy, Americas, UBS

In his role at UBS, Stephen is in charge of the Energy Investment Business, including Mergers & Acquisitions and Capital Markets advisory for the Americas.

Previously, Stephen was head of DB's energy office in Houston, and worked in the Natural Resources Group during his first stint at UBS. He has more than 15 years of experience in the energy sector, having started his career at Enron Corp.



Michael Viehs – Head of ESG Integration, Federated Hermes

As head of ESG Integration for International Business investment strategies, Michael works to ensure that the investment teams and the stewardship team have incisive ESG and sustainability information at hand to make better investment and engagement decisions for their clients.

Michael is responsible for ESG research activities to weigh new opportunities through the incorporation of ESG information in investment decisions.



Charlie Donovan – Executive Director, Center for Climate Finance and Investment at Imperial College Business School

Charlie is a Professor of Practice in the Department of Finance. In his corporate career, Charlie was most recently Head of Structuring and Valuation for Global Power at BP plc. He was part of the strategy team that launched BP Alternative Energy.

Charlie began his career as an Energy Policy Analyst with the US Environmental Protection Agency during the Clinton Administration.



Elena Philipova – Global Head of ESG Proposition at Refinitiv and TEG member at the European Commission

In her role at Refinitiv, Elena leads the end-toend management of the ESG business, products and solutions, helping to provide financial markets data and infrastructure to more than 40,000 institutions.

Elena is a member of the EU Technical Expert Group on Sustainable Finance, working on key issues such as Taxonomy, EU Green Bond Standards, and ESG Disclosures.



Doug Baird – Head of Climate Stress Testing and Pension Risk, NatWest Group

Within Group Risk, Doug leads the development of the Group's climate scenario and stress testing capabilities, focusing on the Climate Biennial Exploratory Scenario for the Bank of England. He also heads up the Group Pension Risk team.

Previously Doug has led teams in both operational risk capital. Before joining NatWest Group, Doug worked for KPMG advising corporates on managing pension risk.

HERE WE GO!

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Roundtable on the Sustainable Economy, Climate and ESG Risks

Stephen Perich



"Energy Transition" is Now a Public Capital Markets Sector

Previous seed investments in the private capital markets are now maturing

 More than US\$1.5 trillion has been invested in ESG-committed funds over the past five years

Public markets now employing private market valuation metrics

- Revenue (instead of cash flow) multiples, often several years out, were previously used only in the VC and private equity contexts
- Today public market investors are increasingly comfortable with the explosive growth profiles shown by Energy Transition and ESGfocused technology companies

Equity and debt capital markets are hungry for more investment vehicles

- SPACs have led the way for the energy transition in the equity capital markets
- Share price performance and multiple expansion will lead to further investment and growth

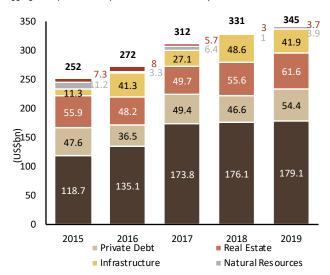


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Significant ESG Private Investment Seeking Public Markets Access

Increasing ESG-Focused Private Capital Will Be Seeking Exits

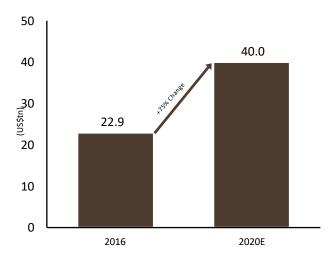
Aggregate Capital Raised by ESG Committed Funds by Asset Class



- US\$1.5 trillion invested in ESG-committed funds over past five years
- ESG-oriented private investments now ripe for exit

ESG-Focused Public Markets Capital Growth and Demand Accelerating

ESG Focused Public Funds

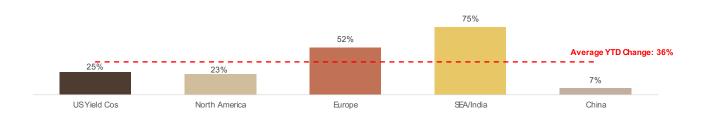


- · Demand for ESG-oriented public companies increasing
- Opportunity to connect private investments to public markets

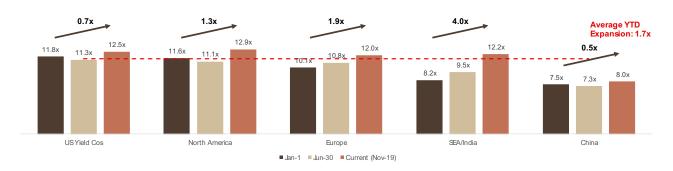


Renewables Valuations Have Increased Substantially in 2020

Renewable Utilities Stock Price Performance in 2020



Renewable Utilities Multiple Expansion in 2020 (TEV / 2021E EBITDA)





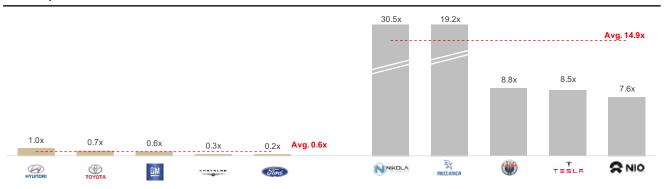
Source: Factset as of Nov 19, 2020

Yieldos: Brookfield Renewable Partners, NexEra Energy Partners, Clearway Energy In, Atlantica Sustainable Infrastructure; North America: Ormat Technologies, TransAlta Renewables, Innergex Renewable Energy, Boralex Inc; Europe: Orsted, RWE, EDP Renewables, Acciona, Neonode, ERG SpA, Scatec, Capgemini, Solaria lenergia y Medio Ambiente, Voltalia, Fisker, Albioma, Terna Energy, Audax Renewables, SPK, EnergieKontor, Grenergy Renewables, 7C Solarparken; India/SEA: Azure, Energy Absolute, Adani Green Energy, FGEN, CKP, BCPG, NHPC Limited, Gunkul Engineering, SPCG Public Co, TPC Power Holding Co; China: China Yangtze Power, Huaneng Lancang River Hydropower, China Everbright Environment Group, China Longyuan Power Group, Huadian Fuxin Energy Corp., Beijing Jingeng Clean Energy Co, China Suntien Green Energy Corp. Concord New Energy Group, China Datang Corp Renewable Power China

Revenue Multiples are the New Cash Flow Multiples

Electric vehicles trade at significant premiums vs. traditional auto manufacturers

Current EV / 2022E Sales



Current EV / 2023E Sales





SPACs Leading the Way In the Energy Transition Public Markets

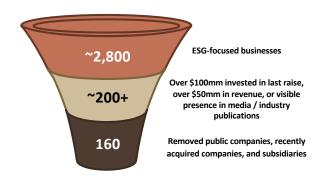
Clean Mobility Price Performance Since De-SPAC1



Growing Opportunity Set

- ✓ Energy transition sponsors actively looking to invest in energy transition via SPACs: 15 SPACs currently looking for targets
- ✓ Top sponsors actively investing in the sector; ~\$11 billion invested in 2020, 2x of 2019
- ✓ Energy private equity has raised energy transition funds; Apollo, NGP, Quantum
- ✓ International capital seeking opportunities in the US; \$2-5bn of cross border M&A in the last 3 months
- ✓ 500+ private companies active in the space looking for either monetization and / or funding capital

Selected Private Landscape





IRENA 2020 Global renewables outlook, Energy Finance Brief, FactSet as of Nov 19, 2020

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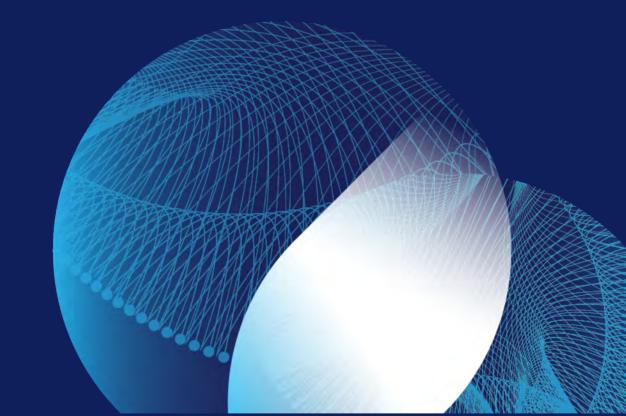
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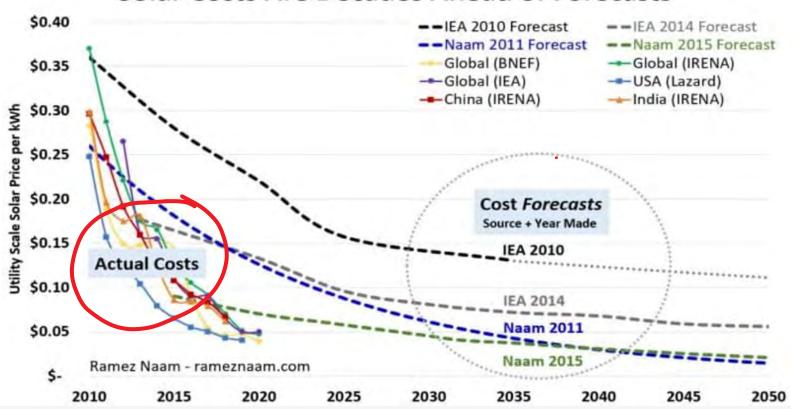
Imperial means
Intelligent Business



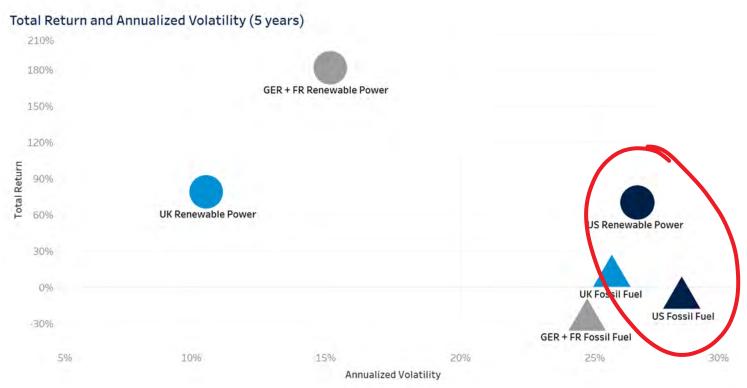
Dr Charles Donovan Executive Director

We are in the midst of a "Clean Tech Miracle"

Solar Costs Are Decades Ahead of Forecasts

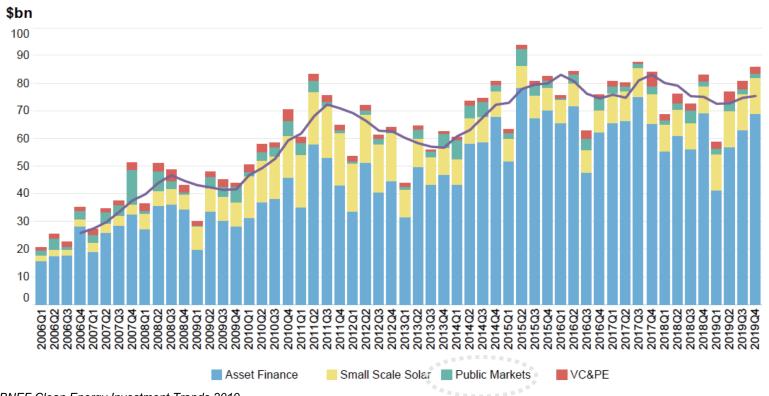


Historically, Higher Financial Returns (in Listed Equity Markets) for Renewable Power than for Fossil Fuels



Source: Imperial & IEA

Yet Public Markets Are Making A Weak Contribution Towards New Investments in Clean Energy (Chart 2006 – 2019)



Source: BNEF Clean Energy Investment Trends 2019

To Drive Capital Flows, We Need Better Information About the Factors Driving Investment Returns

Style Factors













Volatility



Quality

Drivers of Financial Return (2/3)

Macro Factors







Interest Rates



Inflation

Drivers of Financial Return (3/3)

Emerging Climate-Related Factors







Carbon



Commodity Prices

Summary

1) Technology is not the bottleneck

2) Capital markets need to evolve, now

3) Choices today lock-in the energy system of the future

To access the joint Imperial/IEA report

http://imprl.biz/energyinvesting

For more resources on teaching and research

http://imprl.biz/WhatIsClimateRisk

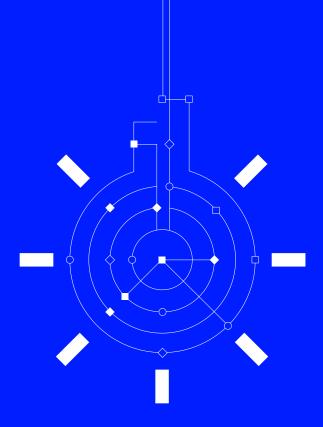
Imperial College | Centre for Climate Business School | Finance & Investment



Sustainable Finance Regulation

Elena Phillipova
Global Head ESG, Refinitiv

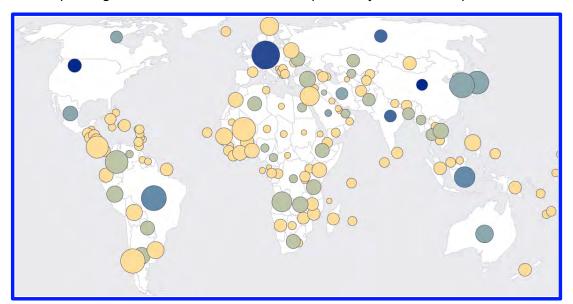
Technical Expert Group (TEG), European Commission





Sustainable Finance Regulation is Growing Rapidly

The impending climate crisis, which will have a potentially disastrous impact on our economies and requires urgent policy action (IPCC 2018),



The **size** of the circle represents the number of climate laws and policies. The larger the circle, the higher the number of climate laws and policies

The **colour** of the circle represents Carbon dioxide emissions from the use of fossil fuel and the manufacture of cement, land-use change, and forestry (MtCO2e). The darker the circle, the higher the emissions.

25 countries and over 1,250 local governments have officially declared the existence of a climate emergency.

There are over 1,800 climate laws and policies globally

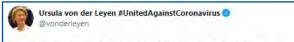
A climate emergency declaration is often accompanied by new or revised climate-related policies, regulations and measures to reduce greenhouse gas emissions.

Expect: Converging standards and ESG Innovation Investors continue to identify inconsistent information as one of the primary hurdles for investing in ESG, and as a result, regulators are trying to provide a platform to facilitate the production of better and more comparable data.

The EU Sustainable Finance Action Plan is in the process of introducing measures that seek to improve the consistency of information — whether through a green taxonomy or disclosure regulation — further technical guidance will be produced in 2020.



The EU Green Deal as Motor for Recovery



As we start to rebuild our economies after the coronavirus, we need to invest in smartly. Our compass will remain the #EUGreenDeal, which can transform our economies and societies to confront climate change. For the future of our planet and our children.

#GreenRecovery

There is no trade-off between incentivizing a speedy economic recovery and supporting the sustainability transition, especially given that our 2050 deadline for climate-neutrality cannot be postponed. On the contrary, the sustainability transition is a source of economic and job opportunities.

Sustainable Finance and the Renewed Strategy will play a key role in the EU recovery

A more sustainable financial system means economies and societies will be more resilient toward climate and environmental risks

The EU sustainable finance taxonomy will guide investment in Europe's recovery to ensure they are in line with our long-term ambitions.



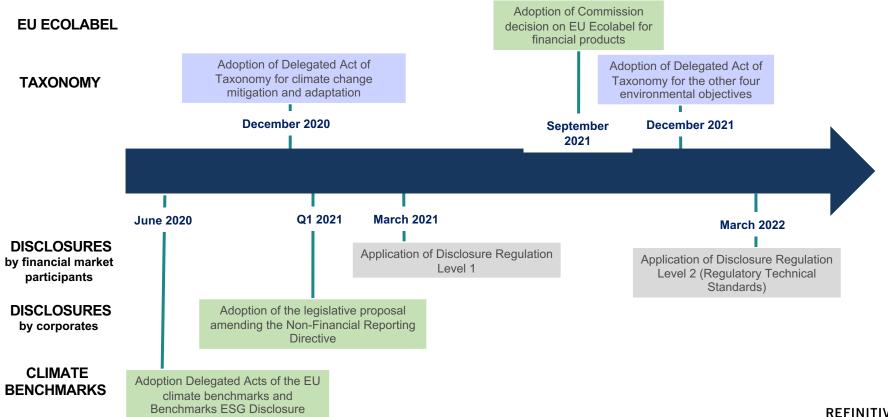
EU Action Plan on Financing Sustainable Growth

The Action Plan 2018 stretches across the whole investment chain Explore how credit rating agencies could Develop an EU classification system for **Taxonomy** more explicitly integrate sustainability into environmentally sustainable economic Sustainability in **TEG** activities their assessments. Study on sustainability research and ratings ratings and research and exploring possible measures to encourage their uptake. Develop EU standards (such as EU Green Bond Standard) and labels for sustainable Standards and labels Disclosures by Enhance transparency to end-investors on financial products (via Ecolabel) to protect financial market how financial market participants consider integrity and trust of sustainable finance **TEG** participants sustainability market Explore the feasibility of reflecting Exploring measures to improve the Sustainability in Fostering investment sustainability in prudential rules (where efficiency and impact of instruments aiming prudential requirements justified from a risk perspective) in sustainable projects at investment support. Mapping on investment gaps and financing. Strengthening TEG Enhance climate and sustainability-related sustainability Incorporating Amend MiFID II and IDD delegated acts to information provided by corporations disclosures by corporates sustainability in ensure that sustainability preferences are financial advice considered in the suitability assessment. Collect evidence of undue short-term Fostering sustainable pressures from capital markets on corporate governance & corporations and consider steps for Developing promoting long-termism promoting corporate governance that is sustainability Develop climate benchmarks and ESG more conducive to sustainable investments. benchmarks disclosures for benchmarks



TEG

Timeline of Key Actions of the Plan



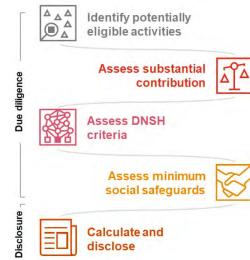
EU Taxonomy Regulation

Develop an EU classification system for environmentally sustainable economic activities

The EU Taxonomy, the foundational piece from the Action plan on financing sustainable growth, is a classification tool to help investors and companies consistently determine whether an economic activity is environmentally sustainable or not. It provides specific, quantitative thresholds on environmental performance for economic activities to be considered compliant with the EU Taxonomy.



EU Taxonomy Delegated Acts for climate change mitigation and adaptation Dec 2020 Dec Companies in scope of NFRD must disclose % of revenues generated from 2021 EU Taxonomy eligible activities for climate change mitigation and adaptation Financial market participants must disclose to what extend they invest in EU Taxonomy eligible activities for climate change mitigation and adaptation Delegated Acts for the remaining 4 environmental objectives Dec Companies in scope of NFRD must disclose % of revenues generated from 2022 EU Taxonomy eligible activities for the remaining 4 environmental objectives Financial market participants must disclose to what extend they invest in EU Taxonomy eligible activities for the remaining 4 environmental objectives

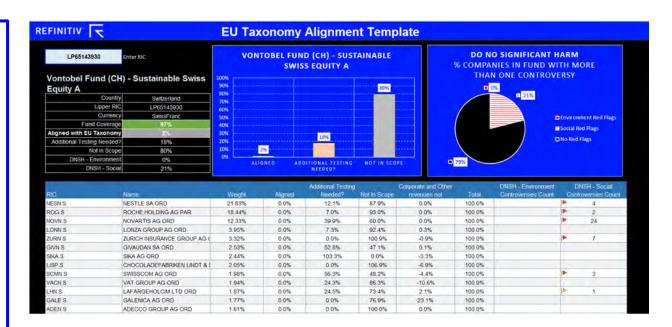




EU Taxonomy – Refinitiv's Solution

Refinitiv is working on creating EU Taxonomy aligned products to help users fulfill their compliance obligation and evaluate their portfolio against the Taxonomy before the regulation is in force.

- Refinitiv EU Taxonomy template in Eikon Excel
- EU Taxonomy App on Workspace and integration into Portfolio Analytics as well as reporting capability for compliance purposes in 2021
- EU Taxonomy Bulk Datafeed planned for 2021 (targetted release Q3)
- Regulatory Compliance reporting services on-demand (2021)





FEDERATED HERMES

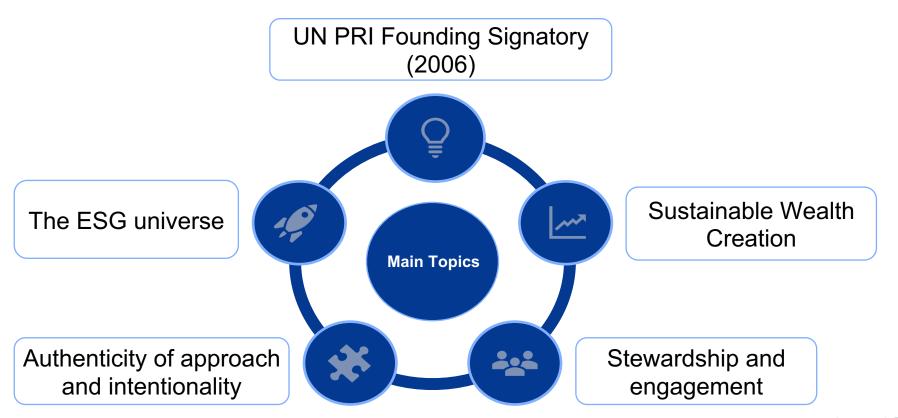
Key points for discussion in Sustainable Finance

Dr Michael Viehs
Director, Head of ESG Integration
Federated Hermes International



FEDERATED HERMES

Key points for discussion in Sustainable Finance







Climate Risk Stress Testing

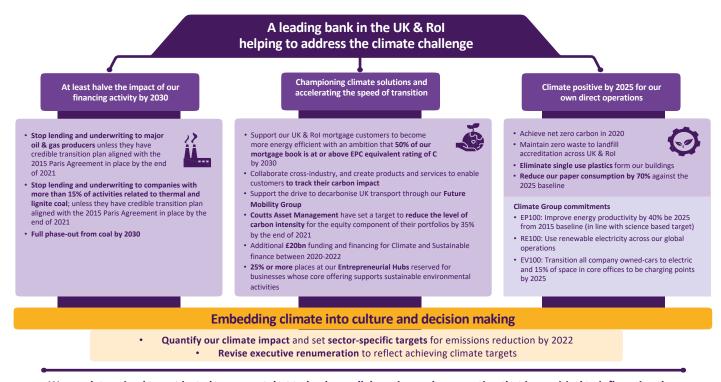
Doug Baird Head Climate Stress Testing and Pension Risk, NatWest Group November 2020

Information classification: Public 32

NWG Climate Ambition

- central to our purpose as an organsiation





We are determined to not just play our part, but to lead on collaboration and cooperation that is so critical to influencing the transition to a low carbon economy

Information Classification – Public

Climate Risk Stress Testing

- regulatory backdrop driving rapid change



PRA SS 3/19

Governance - Embed the consideration of the financial risks from climate change in governance arrangements.

Disclosure - develop an approach to disclosure on the financial risks from climate change.

Risk Management - incorporate the financial risks from climate change into existing financial risk management practice.

Scenario Analysis - use (long term) scenario analysis to inform strategy setting and risk assessment and identification

Task Force for Financial Related Climate Disclosure

Core Elements of Recommended Climate-Related Financial Disclosures



Governance

The organization's governance around climate-related risks and opportunities

Strategy

The actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning

Risk Management

The processes used by the organization to identify, assess, and manage climate-related risks

Metrics and Targets

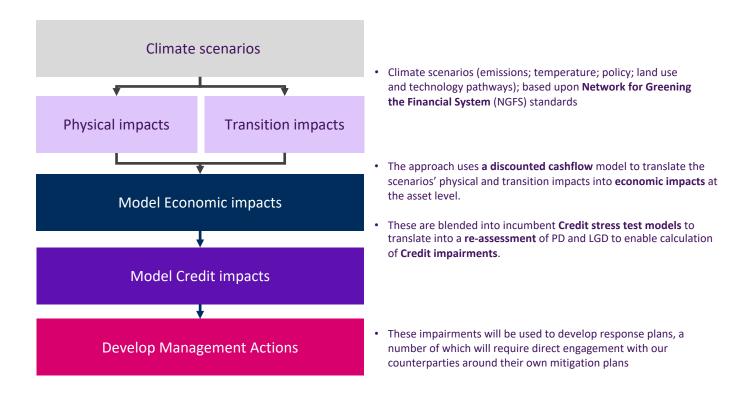
The metrics and targets used to assess and manage relevant climate-related risks and opportunities

Information Classification – Public

Climate Risk Stress Testing

- Modelling climate risks is an essential part of managing them





Information classification: Public 35

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THANK YOU!

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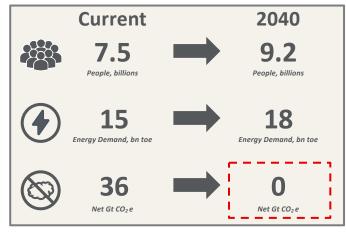
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ANNEX: ADDTIONAL MATERIAL

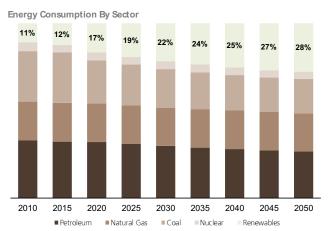


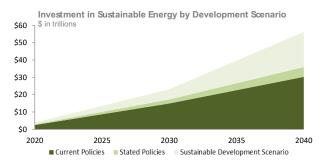
The Energy Transition Requires Substantial Investment to Succeed

Increasing global population and energy needs coupled with extensive recognition and support to address climate change sets the stage for unprecedented investment into the energy transition sector











Energy Transition Sub-Sectors

Clean Fuel **Energy Storage and** Environmental Carbon Capture, Renewables Transportation Efficiency **Utilization and Storage** Infrastructure \$426 \$233 \$269 \$86 \$100 With rapid population growth and CCUS remains expensive and a lot Renewable energy, microgrids, Wind and solar are expected to Sales of battery electric and plugurbanization, water infrastructure of the technology is proprietary contribute the largest absolute in hybrid electric cars tipped over utility scale batteries, and the requires substantial investment, Minimum carbon price of the two-million-vehicle mark for gains in global power generation, advent of EVs will require a and waste generation is expected \$90/tonne is needed for most accounting for >50% of net adds the first time in 2019 massive upgrade to the electrical to increase over 50% by 2050 applications to be economically Wind and solar market share to Public and private infrastructure Companies who monetize waste grow 2x to 10% and 7% by 2030 build out for EV charging while Battery storage installations by-products and focus on water If the world is to get onto a 2becoming more prevalent in decreasing charge times Renewable facilities beginning to management / remediation can degree pathway by 2050, we conjunction with solar / wind compete with base load power Shift to mobility as a service as a attract investors focused on development could need up to 100x the through the combination of solar result of movement away from resource-efficient technologies capacity of what we have today (day), wind (night), and storage private vehicle ownership · Utilities increase spending on Continued privatization of This will require an exponential software tools for their grid Solar and wind being cost · Growing demand for advanced municipal waste management growth in investment supported infrastructure - i.e. digital competitive, if not cheaper, than driver assistance systems (ADAS); should provide opportunities to by policy support and high carbon twinning coal gas in most countries North America is the leading grow through acquisitions market · Use of AI and development of Government and societal metering technology to improve pressures to reduce emissions is energy consumption predictions setting the stage for robust and conservation growth in the recycling and air emissions control markets **ADES CHANG** Uber **SIEMENS** REPUBLIC SERVICES SUNTUN Bloomenergy. Green Plains xvlem NEXT**era** ENERGY **SUNPOWER®**

