

## Transition Pathway Initiative (TPI) Annual State of Transition Report, 2019

In partnership with:









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## The State of Transition Welcome from Chair and Host

### **Emma Howard Boyd**

Chair of the Environment Agency & Chair of the EA Pension Fund Investment Committee

### **Clive Mather**

Chair of the Church of England Pensions Board

### Waqas Samad

Group Director of Information Services at London Stock Exchange Group



## **TPI State of Transition Report 2019**

Professor Simon Dietz, London School of Economics

# About the Transition Pathway Initiative



## **About TPI**

TPI is a global initiative led by Asset Owners and supported by Asset Managers

Established in 2017, investors supporting TPI jointly represent over \$14 trillion combined Assets Under Management and Advice

TPI assesses companies' progress on the transition to a lowcarbon economy, supporting efforts to address climate change;

- in line with the recommendations of TCFD
- providing data for the Climate Action 100+ initiative

All TPI data are open-access and online

We currently cover 274 companies in 14 sectors of the economy, accounting for c. 41% of emissions from public companies worldwide



## **TPI Partners**











## **TPI Supporters**



































































































## **Research Funding Partners**









We would like to thank our Research Funding Partners for their ongoing support to the TPI and their enabling the research behind this report and its publication



# An overview of the TPI Methodology and Tool



## Overview of the TPI Tool

#### TPI assesses companies on:

- 1. Management Quality, i.e. governance/management of emissions and transition risks/opportunities
- Carbon Performance, i.e. quantitative benchmarking of companies' emissions pathways against Paris Agreement

We select largest public companies by market cap and highest emitters in 14 sectors:

- 116 energy companies (coal mining, electricity utilities, and oil and gas)
- 102 in manufacturing and basic materials (incl. aluminium, cement, paper, steel, etc.)
- 41 in transportation (autos and airlines)
- 15 in consumer goods and services



#### TPI Tool

The TPI tool enables the assessment of companies' carbon management quality and carbon performance, within a selected sector.

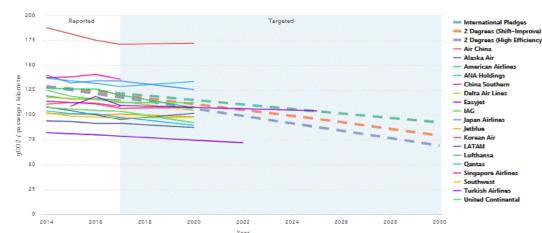
A tutorial to help you use the tool can be found here.

Download complete data set as an MS Excel file (updated May 2019)



#### Management Quality: Airlines





## **TPI Design Principles**

Company assessments based only on publicly available information

Outputs useful to Asset Owners and Asset Managers

Builds on existing initiatives and disclosure frameworks, such as TCFD

Pitched at a high level of aggregation; applies to firm as a whole



## **Management Quality**

Level 0

**Unaware** 

Level 1

**Awareness** 

Level 2

**Building capacity** 

Level 3

Integrating into operational decision making

Level 4

Strategic assessment

Based on ESG ratings data provided by FTSE Russell

Company explicitly recognises climate change as a relevant risk/opportunity for the business

Company has a policy (or equivalent) commitment to action on climate change

Company has set GHG emission reduction targets

Company has published info. on its operational GHG emissions

Company has nominated a board member/committee with explicit responsibility for oversight of the climate change policy

Company has set quantitative targets for reducing its GHG emissions

Company reports on its Scope 3 GHG emissions

Company has had its operational GHG emissions data verified

Company supports domestic & international efforts to mitigate climate change

Company has a process to manage climate-related risks

Company discloses materially important Scope 3 GHG emissions (coal, oil and gas) Company has set long-term quantitative targets (>5 years) for reducing its GHG emissions

Company has incorporated ESG issues into executive remuneration

Company has incorporated climate change risks and opportunities in its strategy

Company undertakes and discloses climate scenario planning

Company discloses an internal carbon price

Company does not recognise climate change as a significant issue for the business

## **Carbon Performance**

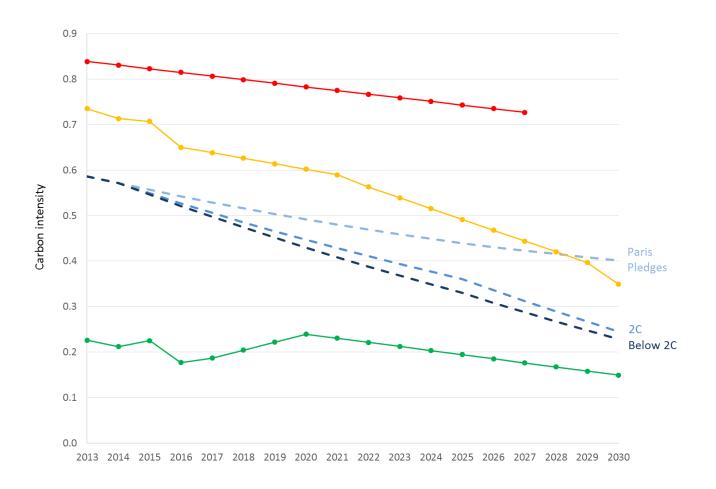
Tests the alignment of company targets with the Paris Agreement goals, using the same approach as Science-Based Targets\*

Three benchmark scenarios, which in most sectors are:

- Paris Pledges, consistent with emissions reductions pledged by countries as part of the Paris Agreement (i.e. NDCs)
- 2. 2 Degrees
- 3. Below 2 Degrees

Benchmarking is sector-specific and based on emissions intensity (e.g. tonnes of CO2 per MWh electricity generated)

\*We use the Sectoral Decarbonization approach (SDA), which was created by CDP, WWF, WRI in 2015



Company A is not aligned with any Paris benchmark

Company B is eventually aligned with the Paris Pledges, but neither 2C nor Below 2C

Company C is aligned with all Paris benchmarks, including Below 2C

## The State of Transition 2019

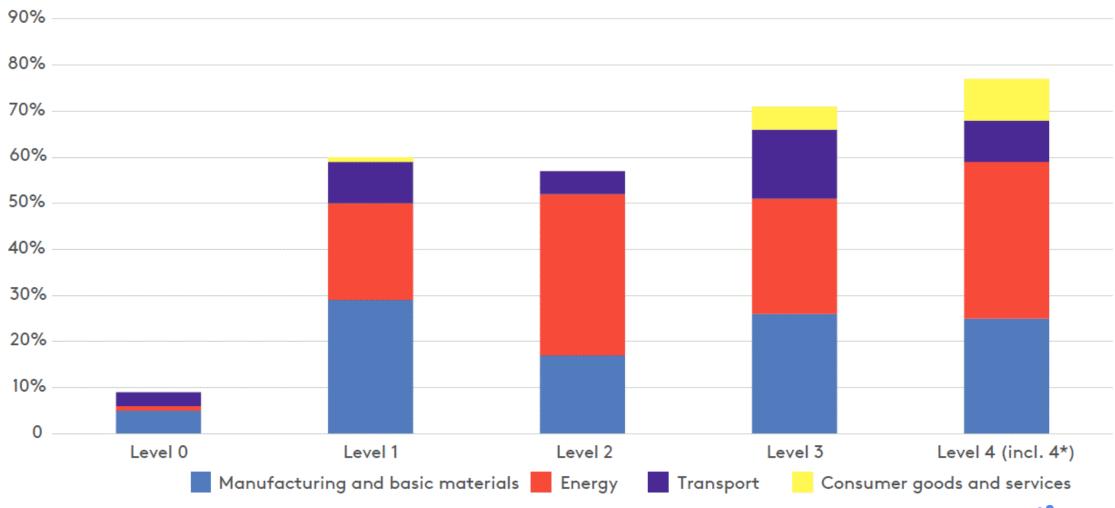


## **Management Quality level**

Level 2 Level 3 Level 0 Level 1 Level 4 **Building capacity** Unaware Integrated into Awareness Strategic assessment operational 77 companies: 28% decision-making 25 Manufacturing and basic materials 34 Energy (including eight 4\*) **71** companies: 26% 25 Energy **57** companies: 21% 17 Manufacturing and basic materials 35 Energy 5 Transport **60** companies: 22% O Consumer goods and services 29 Manufacturing and basic materials 21 Energy 9 Transport 9 companies: 3% 1 Consumer goods and services 5 Manufacturing and basic materials 1 Energy **3** Transport 0 Consumer goods and services



## **Management Quality level by sector cluster**





## 4\* companies

Some companies satisfy all Management Quality criteria

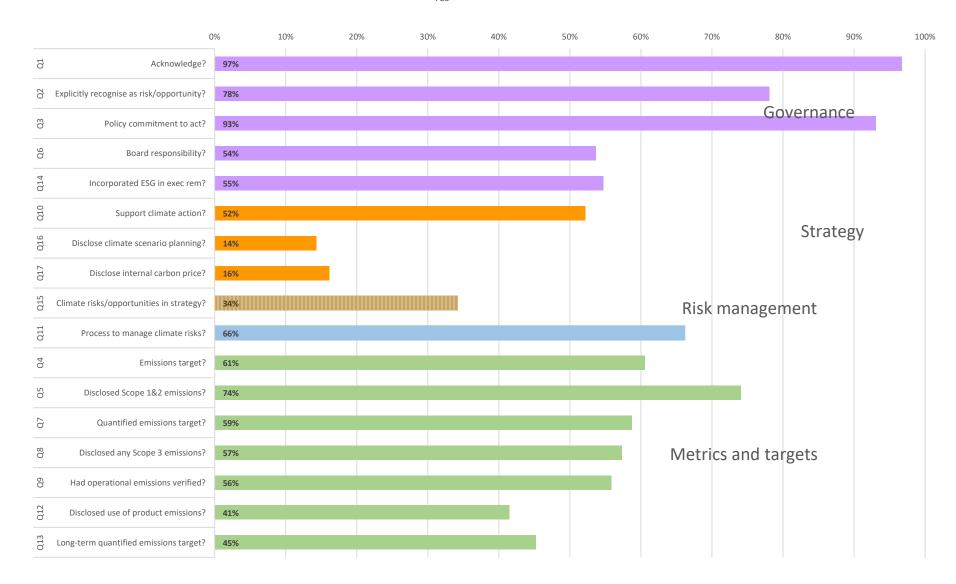
These companies do all the basics, and:

- Have quantitative, long-term targets
- Incorporate ESG into executive remuneration
- Incorporate climate change risks/opportunities in company strategy
- Undertake and disclose climate scenario planning
- Disclose an internal carbon price

4* Company	Sector
AGL Energy	Electricity
Anglo American	Coal mining (general mining)
BHP Billiton	Coal mining (general mining)
Centrica	Oil and gas distribution
Equinor	Oil and gas
Gas Natural	Oil and gas distribution
National Grid	Electricity
Repsol	Oil and gas

## Management Quality, indicator by indicator against TCFD recommendations







### Management Quality level

## Trends in Management Quality

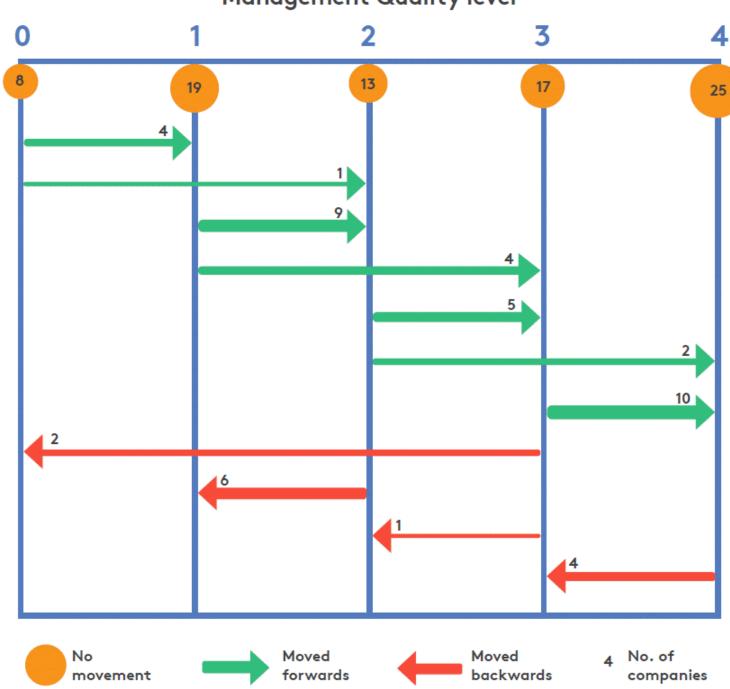
We have trend data on 130 companies, showing changes between '17 and '18

- 82 companies stayed on the same level
- 35 companies moved up ≥1 level
- 13 companies moved down ≥1 level

Most common move is from L1 to L2-3

 Mostly (70%) this was achieved by explicit recognition of climate change as a relevant business risk/opportunity

Oil and gas producers were particularly apt to make progress, from L1 to L2-3, and L2 to L3-4



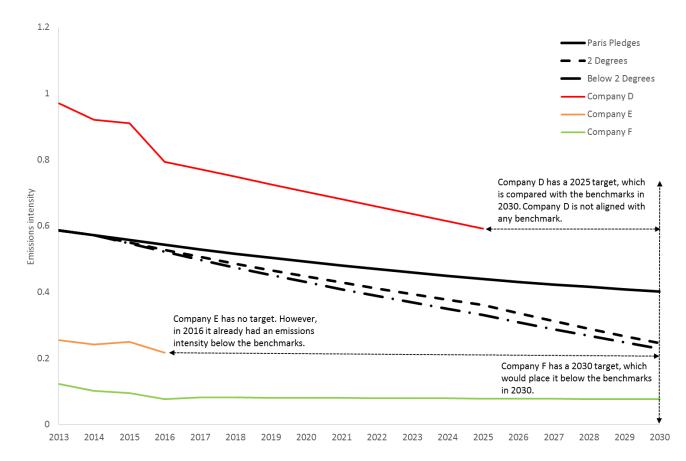
## How TPI's Carbon Performance data are reduced to a single indicator of alignment with Paris

We compare a company's emissions intensity in the last year for which we have data with the benchmarks in 2030.

#### For example:

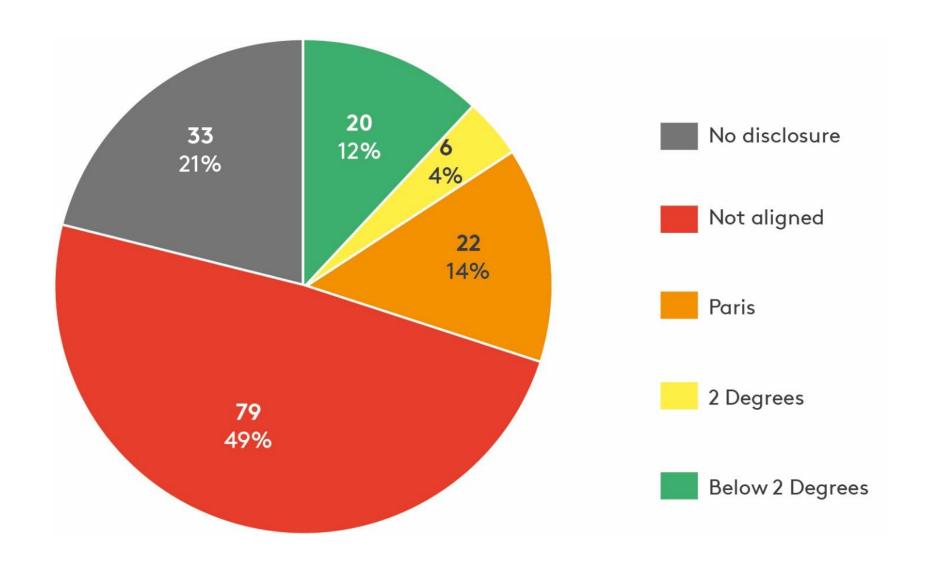
- Company with a 2030 emissions reduction target

   the company's expected 2030 emissions intensity is compared with the benchmark emissions intensities in 2030 (straightforward 2030 comparison);
- Company with no emissions reduction target —
  the company's historical emissions intensity is
  compared with the benchmark emissions
  intensities in 2030 (comparison of where the
  company is now with where it would need to be
  in 2030).



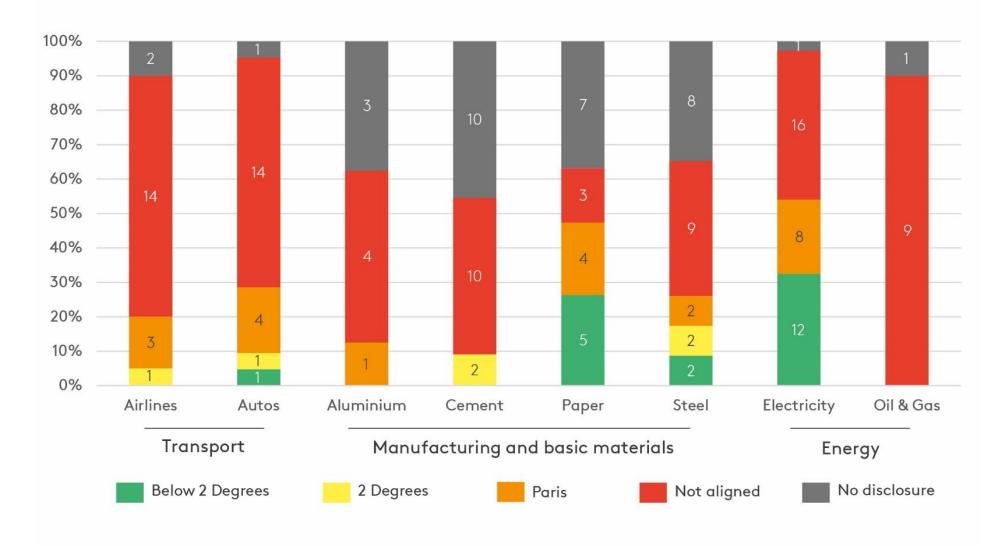


## **Alignment with the Paris Agreement benchmarks**





## Alignment with the Paris Agreement benchmarks by sector



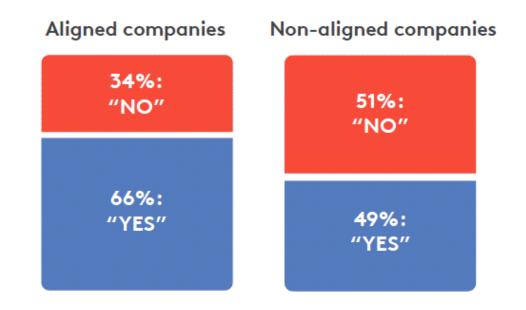


## Does Management Quality predict Carbon Performance?

Management Quality is about inputs; Carbon Performance is about outputs

We find that Management Quality and Carbon Performance are positively associated

This association holds in each of the four TCFD areas, but particularly in strategy





## **Summary of results**

Most companies have built basic capacity to manage the low-carbon transition

Too many big emitters are yet to integrate climate change into their operations, let alone take a strategic approach

Significant disclosure gaps remain on corporate emissions

Few companies are aligned with the Paris goals, but the leaders show what is possible

Management Quality and Carbon Performance are correlated, but investors need to engage directly on emissions targets





## Reflections

### **Nathan Fabian**

Chief Responsible Investment Officer Principles for Responsible Investment (PRI)

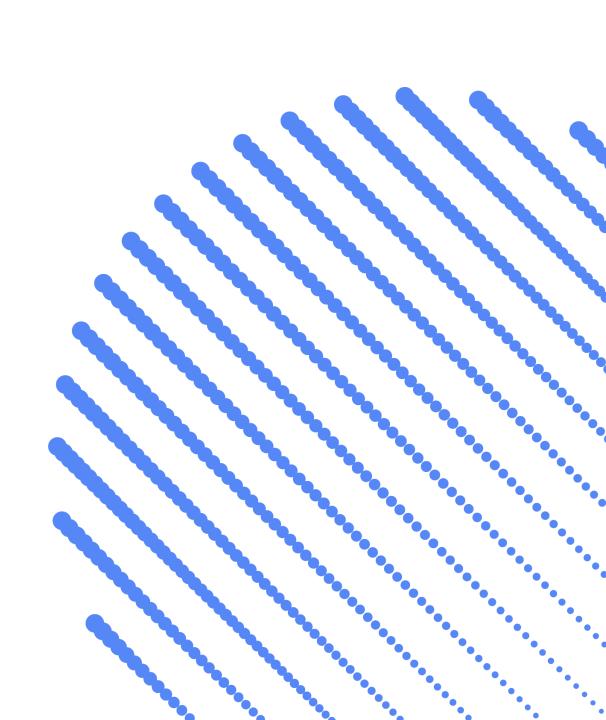


## **Transition Pathway Initiative (TPI) 2020-2025**

Adam C.T. Matthews & Faith Ward

Co-Chairs, Transition Pathway Initiative (TPI)





## **Supporters and users**

- 50 investors with close to \$15 trillion\* combined
   Assets Under Management and Advice publicly support
   TPI
- 320 investors with over \$33 trillion\* combined AUM
  use TPI data in the CA100+ initiative aimed at ensuring
  the world's largest corporate greenhouse gas emitters
  take necessary action on climate change



<sup>\*</sup> as of July 9, 2019

## **TPI Supporters**





























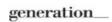




































































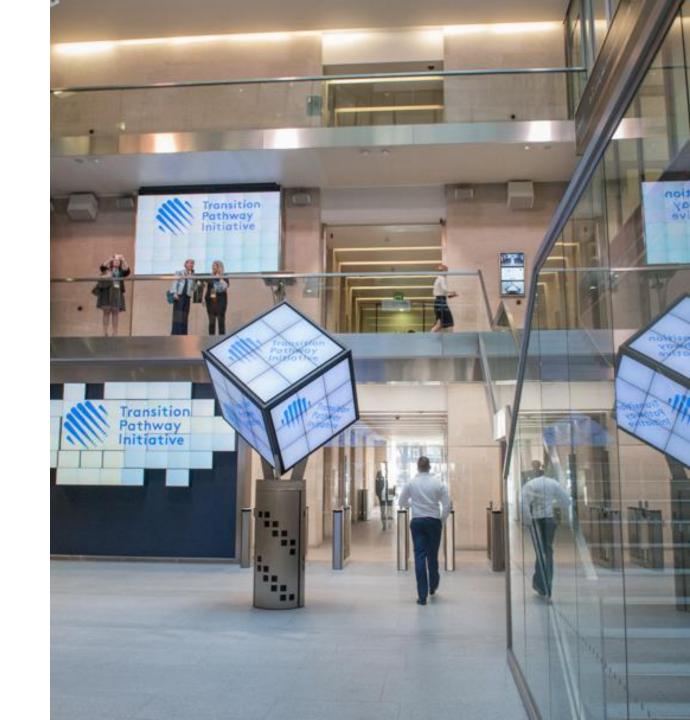


## **How investors are using TPI**

TPI is deliberately non-prescriptive in how people can use it

Funds have highlighted various ways in which they are using it, including:

- Understanding transition risk
- Informing investment decision-making
- Supporting below 2 degree alignment of pension funds
- Informing construction of an index
- Reporting tool for Managers to Asset Owners
- Guiding voting
- Targeting and tracking engagement



## Key achievements to-date



## **TPI sectoral coverage (June 2019)**

Sector	Number of companies currently assessed for Management Quality	Number of companies currently assessed for Carbon performance
Oil and gas	45	10
<b>Electricity utilities</b>	46	36
Coal mining	19	0
Automobiles	21	19
Airlines	20	18
Cement	22	12
Steel	23	15
Aluminium	12	5
Paper	19	12
Oil and gas distribution	6	-
Services	7	-
Consumer goods	9	-
Other basic materials	9	-
Other industrials	18	-
Total*	274	127

<sup>\*</sup>Companies assessed in multiple sectors are counted once

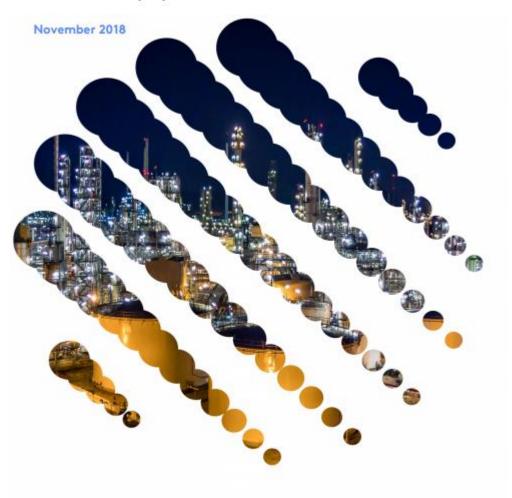


## **Key TPI achievements to-date**

- TPI has developed new, academically robust methodologies to enable investors to assess the carbon performance of companies in carbon intense sectors like oil and gas, steel, aviation and transport
- For oil and gas, automobiles and aviation, this is the first time that decision-useful tools and methodologies have been developed to enable investors to assess and understand these companies' and sectors' most significant emissions (e.g. downstream emissions from the oil and gas sector, vehiclerelated emissions from the automobile sector)
- Facilitating discussions with the mining sector to create a methodology by which to assess them

#### Carbon Performance Assessment in Oil and Gas:

#### Discussion paper



Simon Dietz, Carlota Garcia-Manas Dan Gardiner, William Irwin, Adam Matthews, Michal Nachmany, Rory Sullivan, Faith Ward



## **Key TPI achievements to-date**

- TPI selected as the data provider for Climate Action 100+ (CA100+) to assess companies public disclosures
- Royal Dutch Shell joint statement with CA100+ referenced TPI assessments and ensuring data provision
- Following TPI's first assessment, Tesla published their first Sustainability report
- **Aviation** sector now engaging with TPI and investors around off-sets
- TPI Awarded Finance For The Future Award









WINNER



#### Shell yields to investors by setting target on carbon footprint

Cutting emissions to be linked to executive pay in industry first



Hyperdrive **Tesla's First Impact Report Puts Hard** 

Number on CO2 Emissions

The electric-car maker offered fewer specifics on diversity and water use.

By Emily Chasan



Anjli Raval, Leslie Hook and Attracta Mooney in London DECEMBER 3, 2018

□ 108

Royal Dutch Shell will set carbon emissions targets next year and link these to executive pay, reversing its chief executive's opposition and following intense pressure from shareholders who want fossil fuel companies to take greater responsibility for their contribution to global warming.





## **Extensive media coverage**



Technology

## Shell, Total Are Anomaly, Allowing Investors to Track Carbon

By Mathew Carr and Kelly Gilblom

7 November 2018, 15:00 CET Updated on 7 November 2018, 17:05 CET

- ► Funds can use new data to favor companies in transition
- ► Church pension mulling switch for \$855 million of holdings



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#### Stora Enso ponownie wśród ekoliderów

Anna Dudkiewicz 19.02.2019 09:10

Stora Enso została uwzględniona w raporcie Supplier Climate A List, obejmującym światowych liderów w walce ze zmianami klimatycznymi. Jest on co roku kworzony przez CDP – organizację non-profit zajmującą się problematyką zrównoważonego rozwoju w wymiarze globalnym i wspierającą przedsięwzięcia z nią związane. W ubiegłym roku spłynęło do niej ponad 7 tys. informacji od zaangażowanych firm. Dotarły one do ponad 650 inwestorów reprezentujących aktywa o wartości przekraczającej 87 bln USD.

Stora Enso przystąpiła również do umowy kredytowej Revolving Credit Facility (RCF), której warunki po części są uzależnione od redukcji przez firmę emitowanych przez nią gazów cieplarnianych. Postępy skandynawskiego

koncernu w tym obszarze są publikowane w dorocznym raporcie finansowym spółki. Stora Enso wydała także specjalne wytyczne dla swoich dostawców (Green Bond Framework) względem emitowanych przez nich ilości dwutlenku węgla do atmosfery. Stora Enso znalazła się także w czołówce zestawienia Transition Pathway Initiative (TPI), uwzględniającego podejmowane przez firmy wysilki w zakresie jakości zarządzania emisją gazów cieplamianych oraz polityką związaną z redukcją tzw. śladu węglowego. Celem TPI jest monitorowanie obecnych i przyszłych działań proekologicznych, podejmowanych przez przedsiębiorstwa w kontekście ich zgodności z międzynarodowymi i krajowymi wytycznymi, będącymi częścią tzw. Porozumienia Paryskiego.



Airlines stall in tackling climate change - investor group

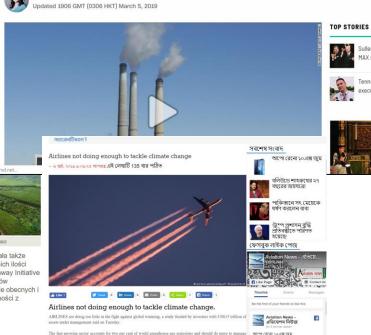
Alister Doyle, Environment Correspondent

BUSINESS NEWS MARCH 5, 2019 / 9:12 AM / 4 MONTHS AGO

|-|-

OSLO (Reuters) - Airlines are doing too little in the fight against global warming, a study funded by investors with \$13 trillion (9.9 trillion pounds) of assets under management said on Tuesday.

The best and worst airlines for tackling climate change of signing and signing and signing are signing as a signing and signing are signing as a signing and signing are signing as a signing are signing are signing are sig



risks of climate change, the Transition Pathway Initiative (TPI) said in a review of 20 of the world's biggest liste

By Ivana Kottasová, CNN Business



Sport Weather

Science & Environment

## Climate change: Which airline is best for carbon emissions?

By Roger Harrabin BBC environment analyst

⊙ 7 March 2019 **f** ⊙ **y** ☑ **<** Share



## **Extensive media coverage (across 27 countries\*)**

Africa An	Americas	Asia Pacific	Europe	Middle East
South Africa Me	Mexico Peru United States	Australia Bangladesh India Japan Malaysia Singapore South Korea Taiwan	Cyprus Czech Republic France Germany Italy Norway Poland Portugal Spain Sweden United Kingdom	Qatar Saudi Arabia



## **Future plans**



## Impact on companies: shaping the debate

#### TPI Aims to:

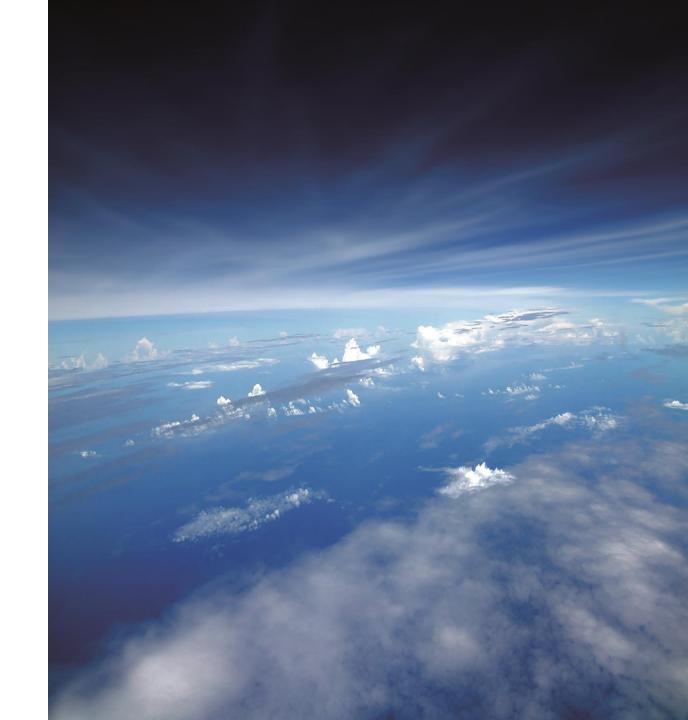
- be 'THE' high level assessment tool used by Asset
   Owners globally and the wider market to understand
   transition risk and to support the transition to a below
   2-degree aligned world
- be the key TCFD aligned tracking tool of company public disclosure for investors undertaking engagement on climate change, either through the CA100+ or other initiatives
- enable assessments of portfolios with listed assets and evaluation of Fund Managers holdings
- be a 'go-to' reference for considered commentary and annual assessment of the progress of transition within sectors/individual companies



## Key asks from investors informing TPI's 2020-2025 strategic plan

- An increase in the number of companies and sectors covered
- More geographical coverage to include companies in high impact sectors who have a small presence internationally but a big presence in the domestic setting
- An expansion of the asset classes we cover to include

  Sovereign and Corporate Bonds



## TPI will achieve this through

- Increasing the number of equity issuers assessed both in terms of geography and sectors
- Continued active outreach to the investor community globally
- Expanding the assessment to also cover corporate bond issuers
- Developing a **TPI methodology to assess Sovereign bonds**

This will increase emissions coverage of listed companies from 40% to 80% of carbon emissions and give investors global tools to assess the carbon performance of both equities and fixed income portfolios

- Establishing new voluntary roles: **TPI Ambassadors** and **TPI Regional Vice-Chairs**
- Dedicated communications capacity



## Further enhancing TPI's methodology as the free-to-use tool to assess public disclosure

- Maintenance and further enhancing TPI standards/methodology for the 14 sectors already analysed as well seeking further academic publications
- Development of a methodology for assessing carbon performance for new sectors bringing the total number of assessed carbon intensive sectors to approx. 20
- Deepening TPI analysis to bridge Management Quality & Performance
- Integration/approach developed to include physical risk assessments within TPI's analysis

- Development of a methodology for assessing Sovereign Bonds
- Deepening analysis of corporate climate lobbying
- Maintenance and enhancement to remain the main data
   partner for assessment of company public disclosure on climate
   change for the CA100+ \$33 trillion AUM engagement initiative.

Sectors are not homogeneous and TPI may – for reasons of cost, technical complexity or utility – not develop carbon performance methodologies for all companies within a sector or for all subsectors within a sector.



## Assess the trends and state of the transition

- Deliver an annual high-level event which will
- assess the state of transition to a low carbon economy
- be a forum to review what is and is not working
- enable the sharing of best practice
- help re-frame the debate within key sectors and across sectors.



## TPI data releases until end of 2019

Sectors	Number of companies	Publication date
CA100+	159	CA100+ will be publishing updated TPI data in September
Energy – electricity utilities, oil and gas, coal mining.	64	September
Transportation autos, airlines, shipping (new sector)	60-70	End October
Carbon intensive manufacturing – cement, steel, aluminium, paper, chemicals (new sector)	90-100	End November



## Thank you

transitionpathwayinitiative.org



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