

# GUIDELINES FOR ESG INTEGRATION IN EQUITY ANALYSIS AND PRESENTATION IN ANALYST RESEARCH REPORTS

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## GUIDANCE FOR INTEGRATING ESG INFORMATION INTO EQUITY ANALYSIS AND RESEARCH REPORTS

November 2022



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# OPENING REMARK

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# OPENING REMARK

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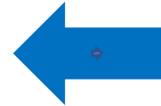
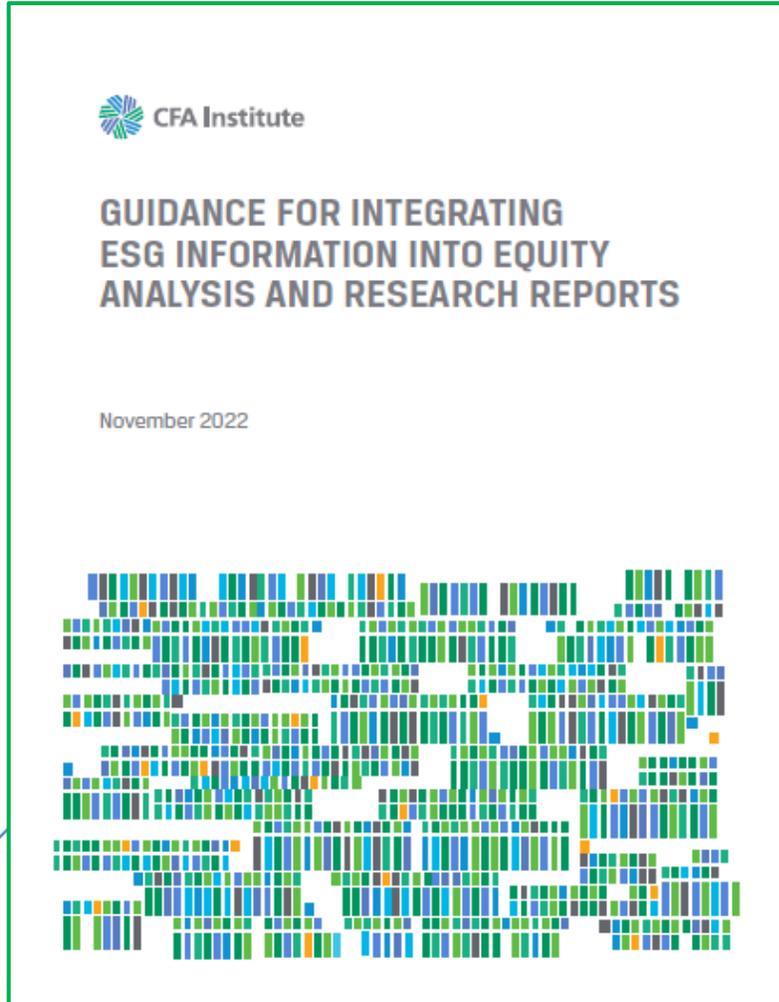




# Guidance for Integrating ESG Information into Equity Analysis and Research Reports

Deborah Kidd, CFA  
November 2022

# GUIDANCE FOR INTEGRATING ESG INFORMATION INTO EQUITY ANALYSIS AND RESEARCH REPORTS



## CFA Institute Resources

CFA Institute Positions on Environmental, Social, and Governance Integration

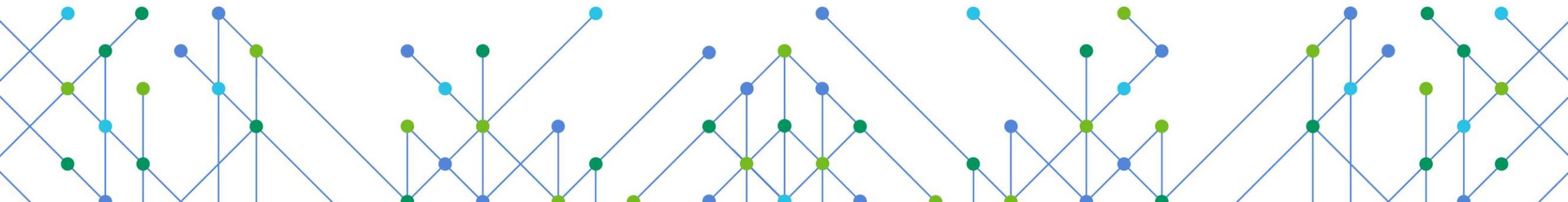
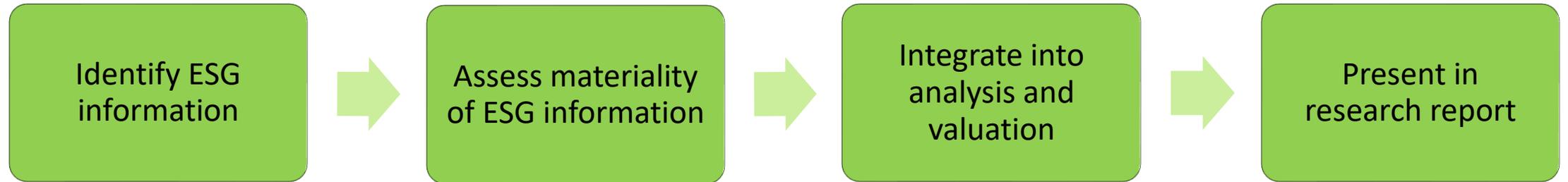
Guidance and Case Studies for ESG Integration: Equities and Fixed Income

CFA Institute Standards of Practice Handbook

Global ESG Disclosure Standards for Investment Products

+ others

# INTEGRATING ESG INFORMATION INTO EQUITY ANALYSIS AND RESEARCH REPORTS



# ESG INFORMATION

## Sources

- Company disclosures and publications
- Meetings and correspondence with company management
- Site visits
- ESG data providers
- Industry trade organizations
- Government records
- Non-profit organizations
- Media sources



## Quality

- Assumptions used
- Rigor of the analysis performed
- Date/timeliness of the research
- Evaluation of the objectivity and independence of the recommendations



# MATERIALITY

Sector/Industry

Company-specific

Location

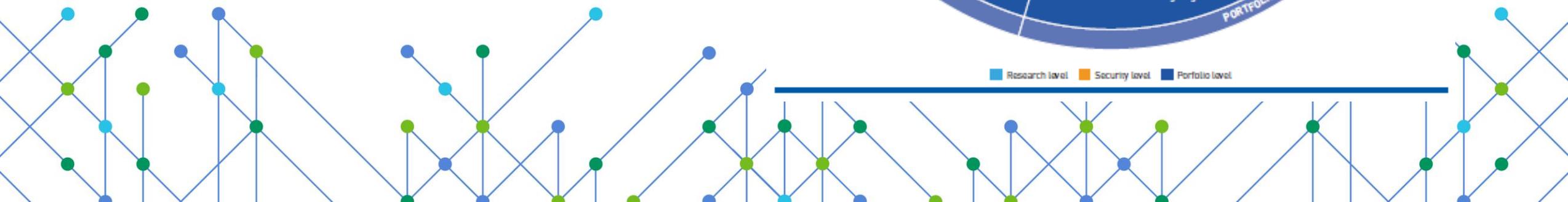
Governance

Climate Change

Investment Horizon



# CFA INSTITUTE/PRI ESG INTEGRATION FRAMEWORK



# INTEGRATING ESG INFORMATION



## Valuation Methodologies

- Forecasted Financials
- Forecasted Financial Ratios
- Valuation Multiples
- Valuation Model Variables
- Security sensitivity/Scenario Analysis

# CASE STUDIES ON INTEGRATING ESG INFORMATION

## Case Studies

- Adjusting Costs and Revenue
- Adjusting the P/E Multiple
- Using ESG Scores in Valuation Models
- ESG Scenario Analysis

# ESG IN A RESEARCH REPORT

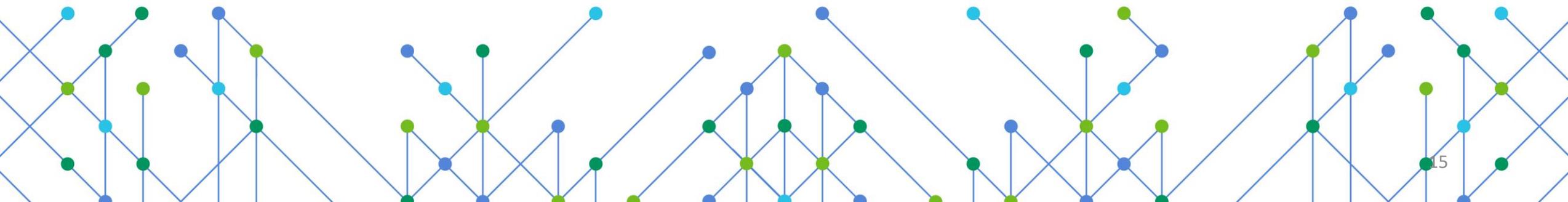
## Elements of a Research Report

- Analyst Opinion
- Disclosure of ESG Information in Analysis and Valuation
- Disclosure of ESG Risks
- Presentation of ESG Information and Analysis

CFA Institute *Standards of Practice Handbook, Eleventh Edition*, “Standard V: Investment Analysis, Recommendations, and Actions” provides guidance on best practices for equity analysis and research reports

CFA Institute Certificate in ESG Investing

CFA Institute and ACCA Climate Finance Course





**THANK YOU!**

# ESG Integration in Equity Analysis – Evolution and the Way Forward



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**Sivananth  
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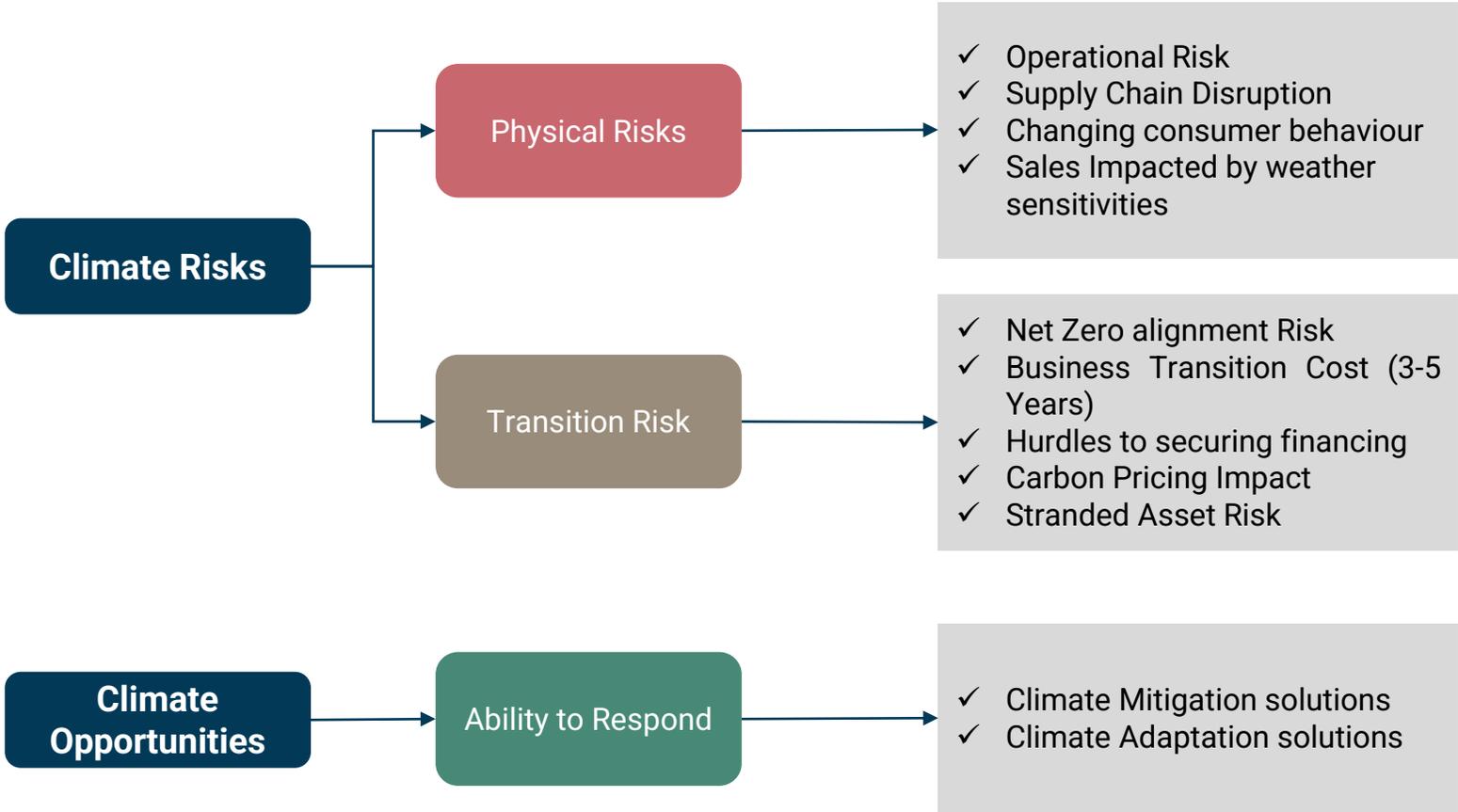


# ESG INTEGRATION IN EQUITY ANALYSIS

Hardik Shah, CFA

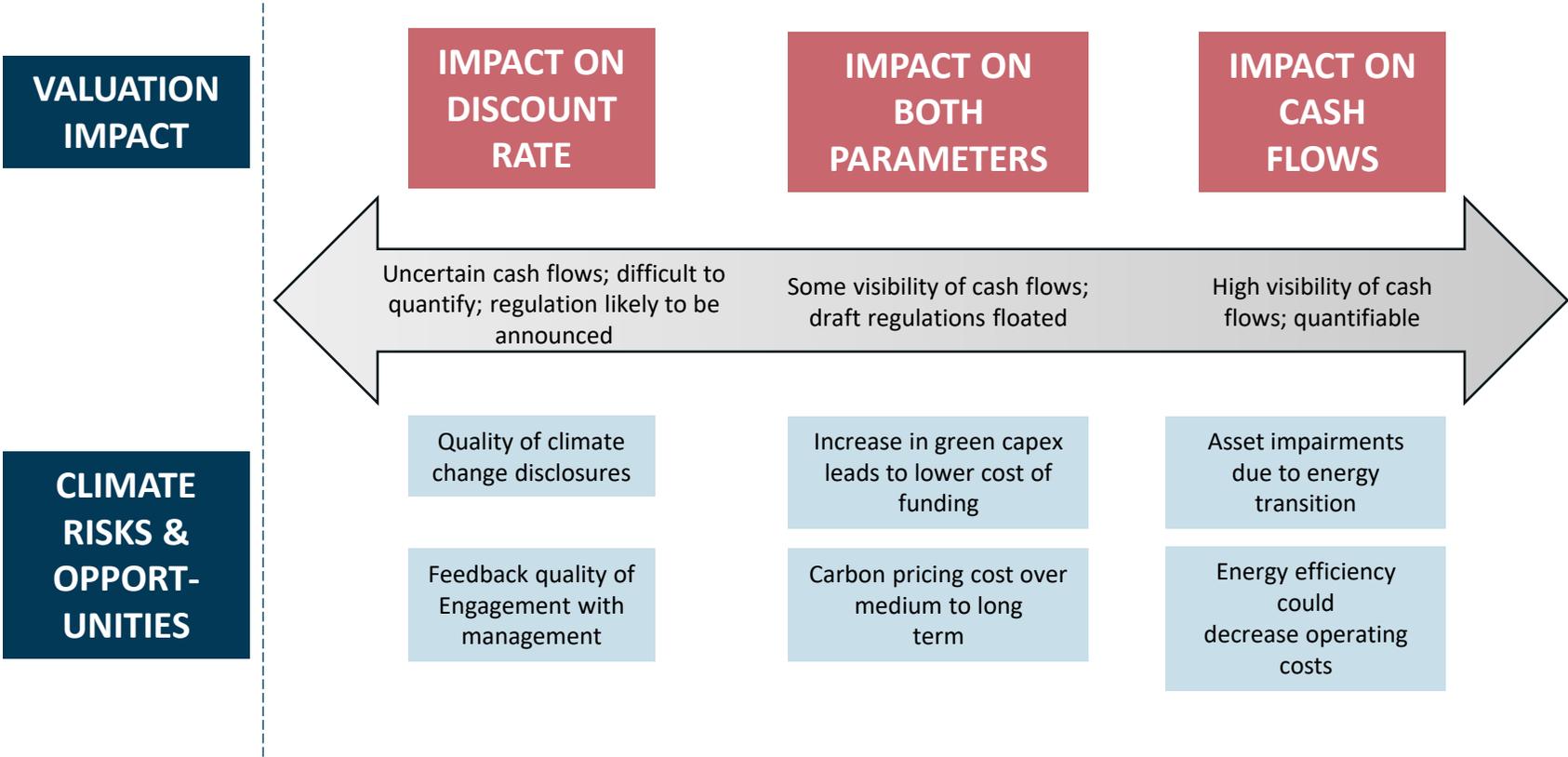
24<sup>th</sup> November 2022

# EVALUATING IMPACT ON INTRINSIC VALUE OF STOCK



# INCORPORATING SUSTAINABILITY IN VALUATIONS

*Adjusting discount rate and cash flows*



# CASE STUDY-INDIAN STEEL COMPANY

*SteelCo is India-based steel manufacturing company*

Consolidated Balance Sheet (in ₹ crore)

Assets	FY21
Cash and cash equivalents	5,532.08
Property, plant and equipment	1,19,003.50
Inventories	33,276.38
Trade receivables	9,539.84
<b>Equity and liabilities</b>	
<b>Equity</b>	
Equity share capital	1,197.61
Hybrid perpetual securities	775
Other equity	72,266.16
<b>Liabilities</b>	
Trade payables	25,482.83
Tax liabilities	4,424.44
Provisions	4,691.92

**Operational Risk-** SteelCo's does not operate in locations prone to asset damage or business interruption so very low impact estimated

**Supply Chain Risk-**

- Australia-the biggest exporter of iron ore, which is one of the major raw materials for steel production, currently is in the list of top 20 countries vulnerable to extreme weather related events
- Since, company is dependent on import of raw materials like iron ore and coal from its captive mines+ other geographies, we assume it will be moderately affected in case of any supply chain disruptions

Note: 1 crore = 10 million

# CASE STUDY-INDIAN STEEL COMPANY (CONTD)

After our assessment we found that, SteelCo has Low-Medium impact from physical risk while transition risks gain prominence in its case.

Consolidated Statement of Profit and Loss (in ₹ crore)

	FY21
<b>Revenue</b>	
Revenue from operations	156294.18
Other income	895.6
Total income	157189.78
<b>Expenses</b>	
Cost of materials consumed	46187.96
Profit/(loss) before tax	13843.69
Tax expense	5653.9
Profit/(loss) for the year	8189.79
Net Income	7490.2
EBITDA	30504.2

### Transition Risk- Market Risk

- As the world moves toward low-carbon future, demand is expected to shift towards green steel/less carbon intensive steel
- SteelCo is gradually moving towards green steel production, so impact likely to be less

### Physical Risk-Supply Chain Risk-

As stated previously, cost of raw materials is likely to increase due to supply-chain disruptions

### Transition Risk- Carbon Tax-Impact

from Carbon Pricing could be significant. Discussed in the next slide

Note: 1 crore = 10 million

# CASE STUDY-INDIAN STEEL COMPANY (CONTD)

*For SteelCo, transition risk costs are most significant in our assessment*

Consolidated Balance Sheet (in ₹ crore)

Assets	FY21
Cash and cash equivalents	5,532.08
Account Receivable	9539.8
Inventories	33276.38
Property, plant and equipment	119003.5
Equity and liabilities	
Account Payables	25967.4
Accrued Taxes	4424.4
Interests and Dividends Payable	-
Total Equity	77508.4

**Stranded Assets**-The increased capex will help in reducing carbon emissions which reduces any possibility of significant impairments

**Hurdles to securing financing**-Being in a GHG intensive sector, the company may face challenges to secure long-term financing as the world transitions away from such business activities

Consolidated Statement of Cash Flow (in ₹ crore)

Free Cash Flow	30945.5
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**Transition Cost**-Cost increase in transitioning business to low-carbon will be high as the company will have to upgrade their equipment and processes

Note: 1 crore = 10 million

# IMPACT OF TRANSITION COSTS TO STEELCO

Transition Cost INR Million	FY24	
	Business As Usual Scenario	Including Transition Cost
Revenue	19720444	19720444
EBITDA	345844	328648
Depreciation	106521	107871
Interest	42068	43643
PBT	205587	185466
PAT	149569	129448
Gross Block	2502701	2532701
Gross Debt	562651	583651
ROE	0.12	0.105
ROCE	0.1	0.09

+4%

-13%

-12.5%

## Notes:

- ✓ Carbon tax calculated based on IMF's recommended carbon price and assumed to be non-tax deductible
- ✓ The carbon tax assumed to impact EBITDA and it will flow down to the bottom line
- ✓ Company will be required to incur capex to reduce carbon footprint. No guidance given by the company for the amount and timeline of the capex; hence assumed capex of USD2bn over a period of 10 years (taking cue from capex guidance/actuals from peers), which will be funded by 70:30 debt : equity ratio
- ✓ The proportionate impact of capex included in gross block and gross debt; which will lead to higher interest and depreciation cost

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# Credit Suisse ESG Securities Research

## ESG Integration in Equity Analysis

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+ 61 2 8205 4448

24<sup>th</sup> November 2022

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# Our Approach

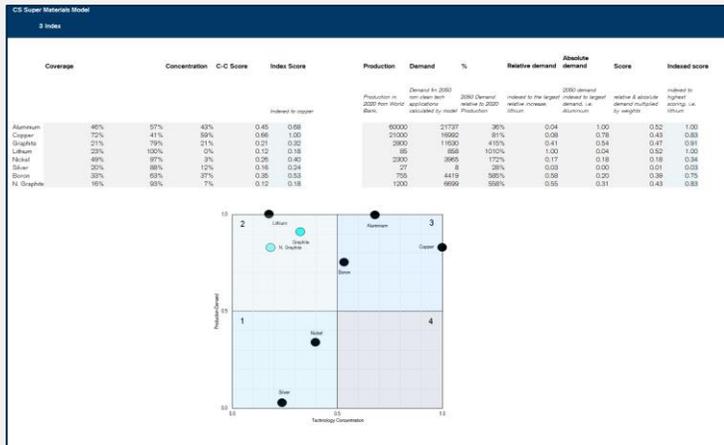
A lens to understand  
industry structural change



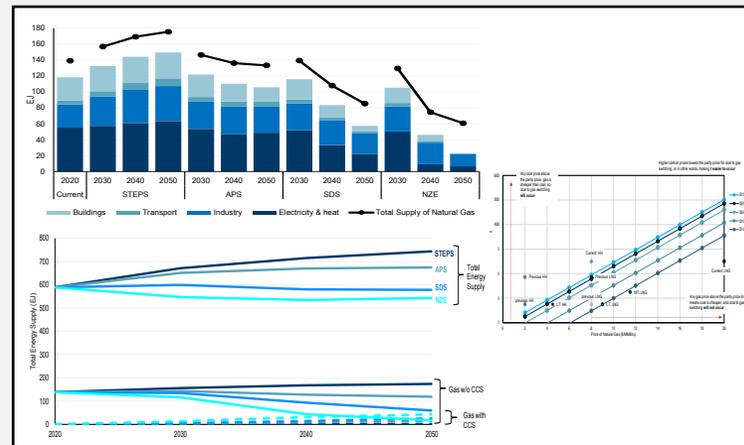
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# Proprietary Transition Scenario Analyses

## 1. Climate Transition Super Materials



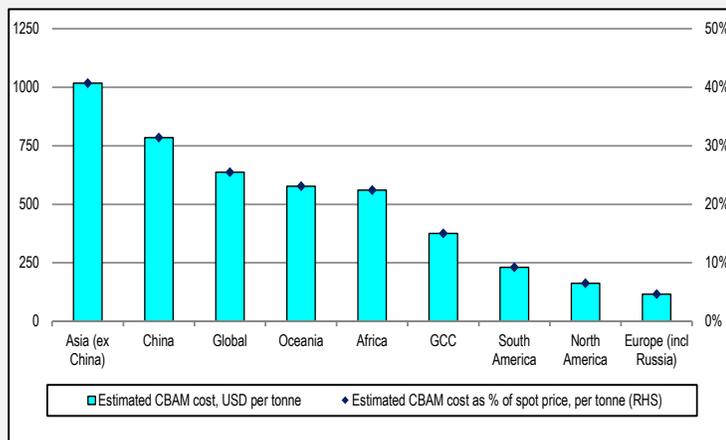
## 2. Natural Gas Transition



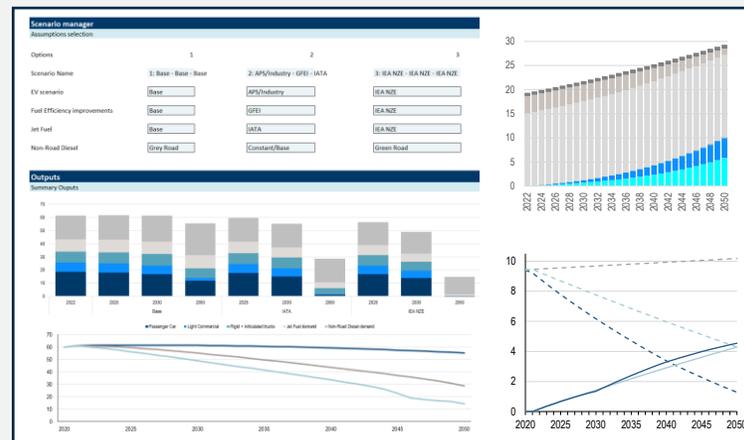
## 3. Carbon Transition Risk Toolkit



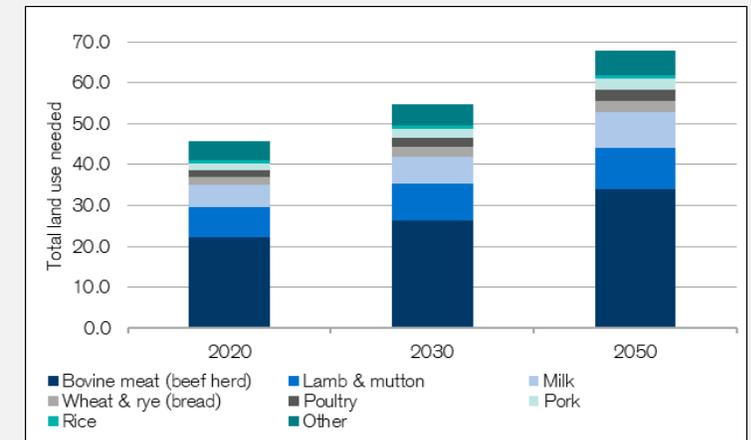
## 4. Carbon Policy, Markets & Pricing



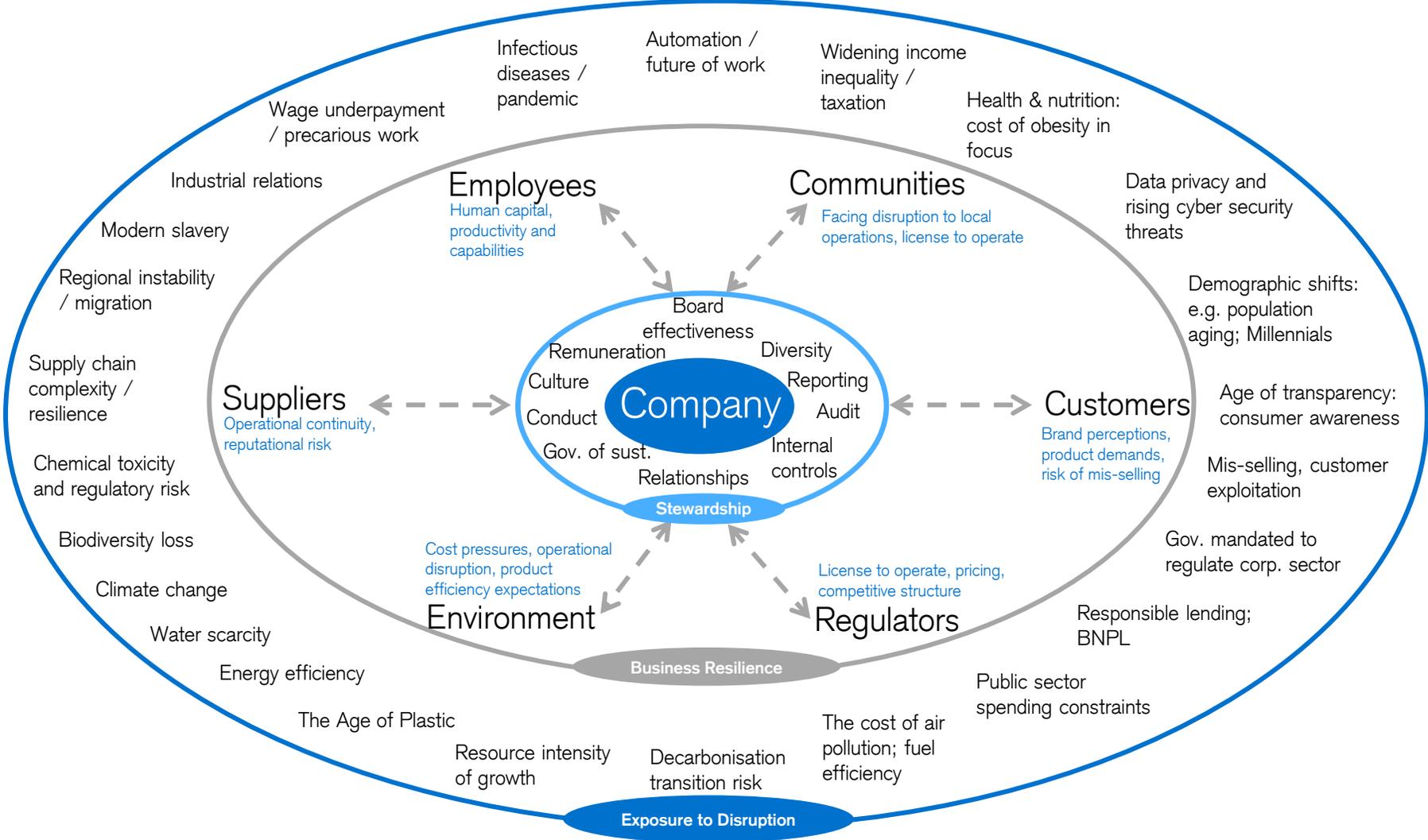
## 5. Mobility transition



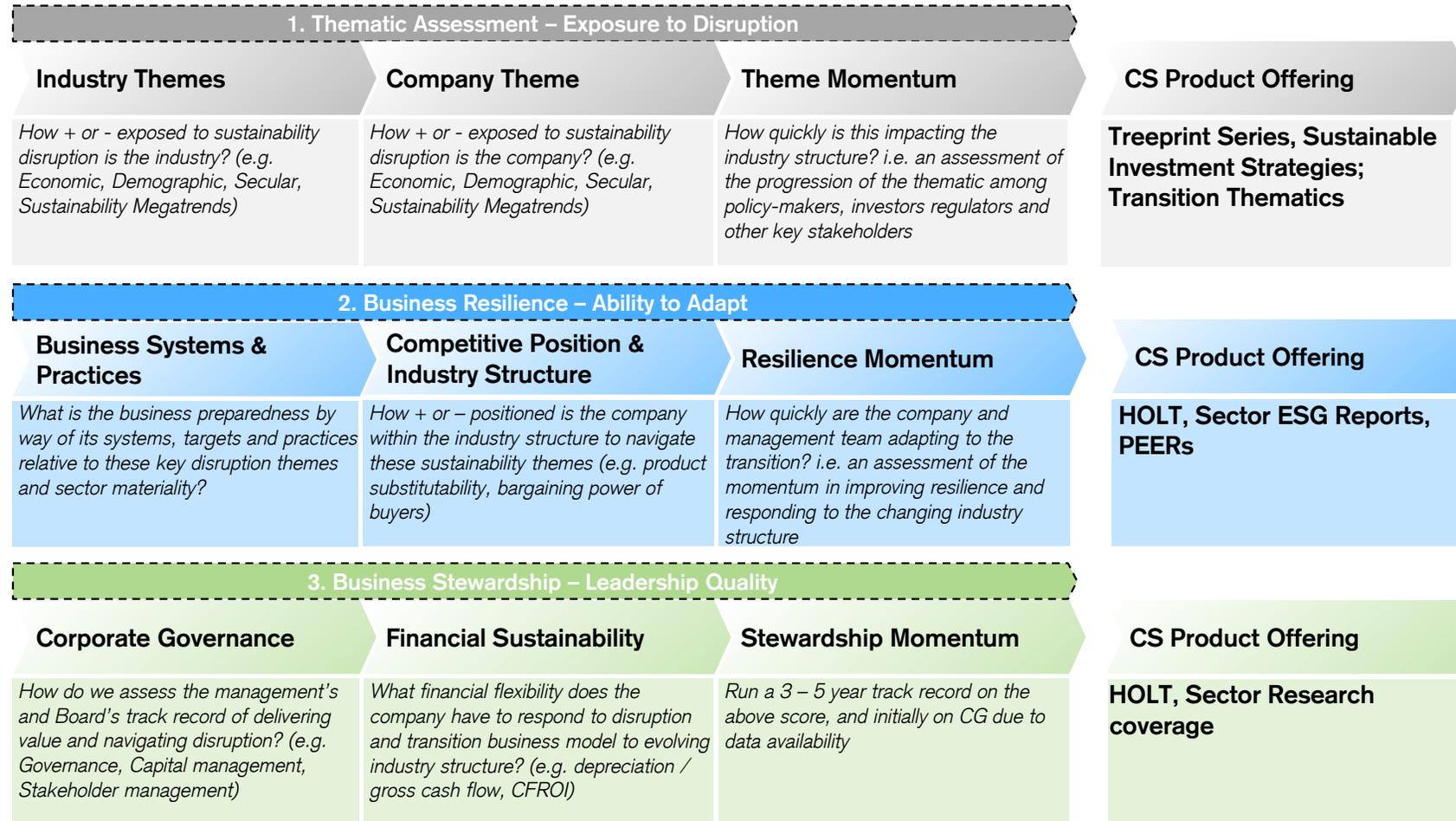
## 6. Food Transition



# Sustainable competitive advantage: Place the company at the centre of its changing organisational environment



# How to conceptualise Sustainable Competitive Advantage



# Driving fuel demand 'Down Under'

Australia ESG -  
modelling the mobility  
transition



# CS Mobility Transition Scenarios

We combine mobility policy variables in three distinct scenario pathways

To understand what the lower and upper limits of future fuel demand could look like in Australia, we combine the three independent variables to create three distinct scenarios.

**The Grey road** combines the lowest estimates of each variable or, in other words, the lowest improvement in fuel efficiency, the lowest penetration of EVs and no use of SAF, but includes the highest growth rate assumption for non-road diesel demand at 1% per year. It aligns to a >3° warming scenario globally.

**The CS (Base) Road** incorporates announced policies to 2030, including the Global Fuel Economy Initiative 2021 target, IATA targets for SAF and holds non-road diesel demand constant. For EV penetration rates we aggregate the State and Territory EV 2030 targets. Subsequently, the IEA SDS is applied post-2030, aligning to a 2° warming outcome and net zero only by 2070 scenario.

**The Green Road** combines the highest estimates of each variable, amalgamating the assumptions used from the IEA NZE scenario for fuel efficiency, EV penetration and SAF, which aligns to a 1.5°C warming and net zero by 2050. CS NEV sale penetration forecast estimates 50% EV penetration by 2030, which is very close to the NZE scenario, however in this case we test the NZE's upper bound. We assume non-road diesel demand declines at 1% per year.

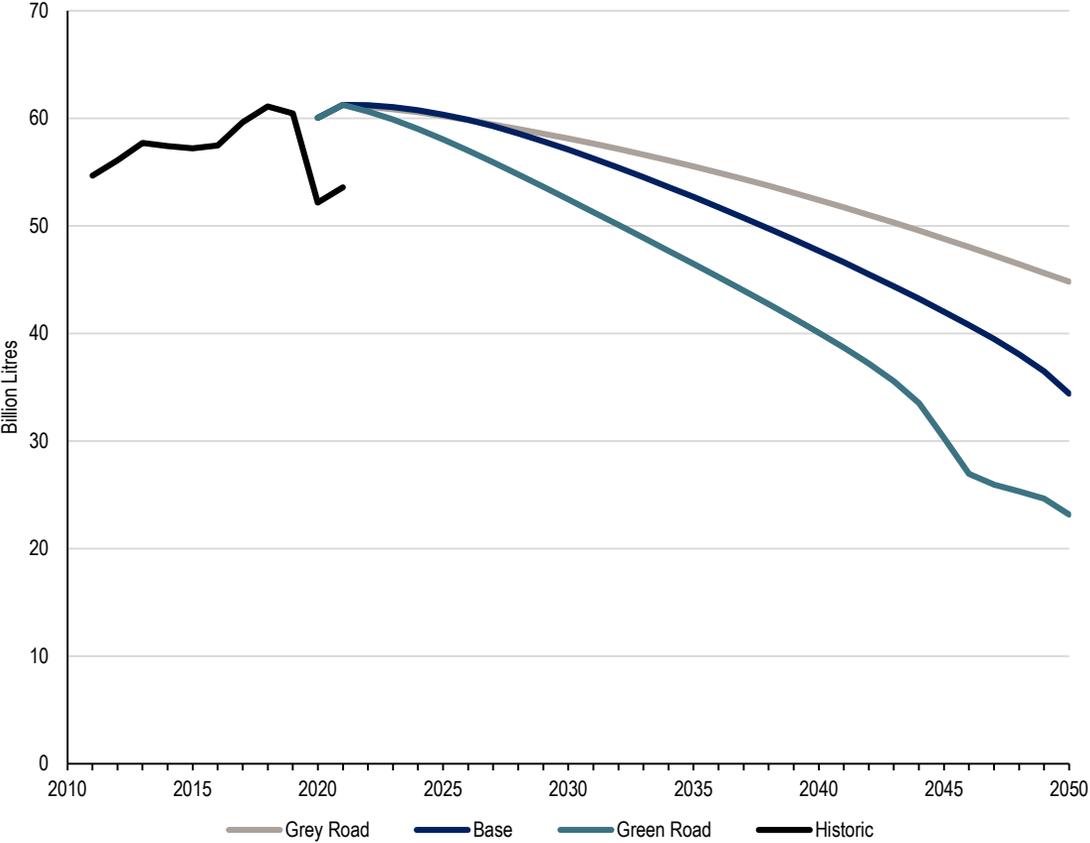
Scenarios			
Variables	Grey Road	Base	Green Road
Fuel efficiency	1% improvement per year	Industry target of 50% improvement by 2030 and 3% p.a. to 2050	IEA NZE
EV penetration	EV uptake increases, but does not reach majority by 2050	Aus State and Territory target equivalent by 2030 and IEA SDS post 2030	IEA NZE, faster adoption to 2030, reaches 90% of sales in 2050
Sustainable aviation fuel	Jet fuel demand grows at 1.5% p.a. but no SAF	Using IATA target of 50% SAF by 2050 and IEA SDS fuel intensity decrease 3% p.a.	IEA NZE, SAF dominates fuel by 2050 and travel declines by 40% by 2050
Non-road diesel	1% increase in demand per year	0% increase in demand per year	1% decrease in demand per year

Source: Credit Suisse

# Scenarios

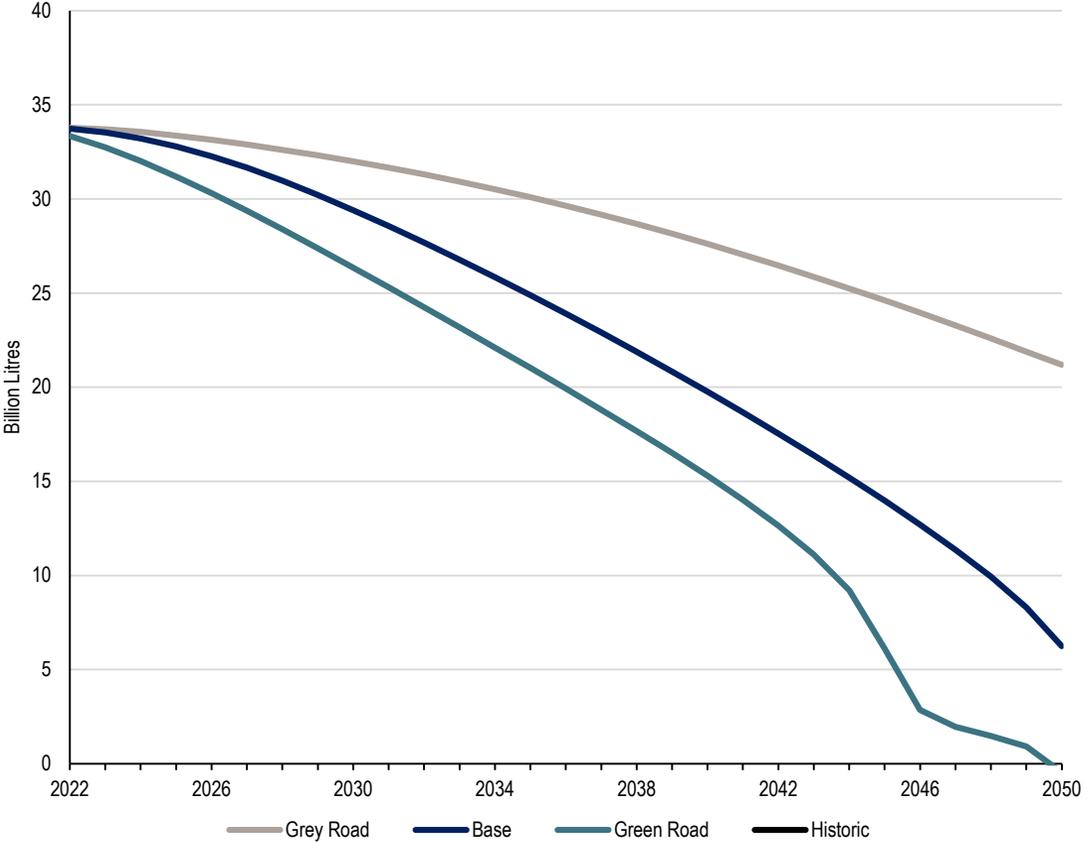
## Outputs – Fuel Demand Trajectories

Figure: Total Fuel Demand under CS scenarios



Source: Credit Suisse

Figure: Motor Fuel Demand under CS scenarios



Source: Credit Suisse

# Fuel Retailers

## The emergence of EVs has significant implications for fuel retailing

- The emergence of EVs has significant implications for fuel retailing, with a likely hollowing out of metropolitan fuel stations and dispersal of the industry profit pool to other commercial and home service locations.
- We estimate that the current profit pool for fuel retailing in Australia is **A\$5.5bn**, which includes the sale of non-fuel convenience products. On average, the retail refuelling industry currently receives ~A\$2.30 of gross profit per every 100km of road transport, which is predominantly generated from fuel revenue.
- **The commercial proposition:** ALD proposes a premium pricing model of A\$0.60/kWh for fast charging at convenience locations. That price compares with retail prices for at-home-charging of circa A\$0.25/kWh currently.
- **On a unit basis, gross profit is greater for electric charging than fuel...:** Assuming the cost of electricity for fuel retailer at A\$0.225/kWh and A\$0.60/kWh for fast convenience based recharging, gross profit is relatively attractive at A\$6 per 100km travelled compared to A\$1.87 per 100km for fuel.
- ... However the share of fast recharging under such a pricing model is likely to be low. Evidence in more developed markets suggests that a relatively small share of the charging task would go to premium priced intra-day charging.
- The charts show the change in the retail fuel gross profit pool under our core scenarios at three different levels of Convenience share of the recharging task. For example, applying CS's Base Road scenario and assuming a 10% Convenience share, the fuel retail industry would lose ~10% of the current gross profit pool. The gross profit in other areas of the economy (e.g. home charging) would increase.

Figure: Gross profit impact under each scenario (A\$m)

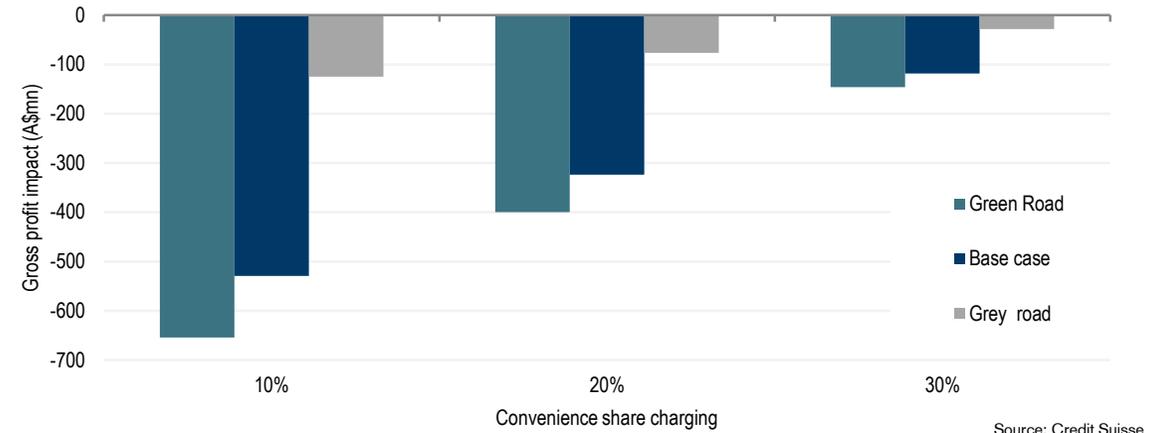
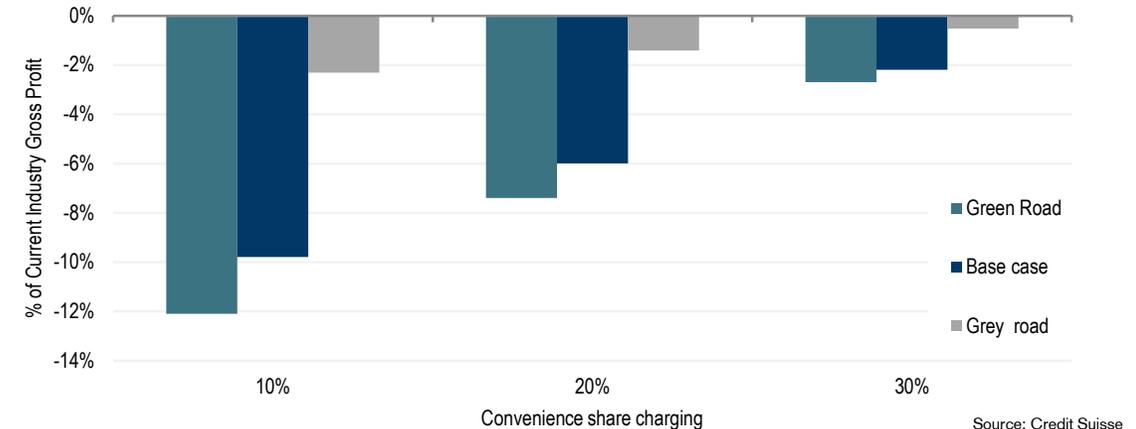


Figure: Gross profit impact under each scenario (%)



# Transport Emissions

## No scenarios meet the Government's new 43% by 2030 target...

Transport emissions in Australia have increased 10% since 2013 and equalled 119 MtCO2 in 2021.

**Grey road:** mobility policies have limited impact on emissions to 2030, decreasing only slightly from 99 MtCO2 to 96 MtCO2 by 2030, and to 72 MtCO2 by 2050, only a 26% reduction.

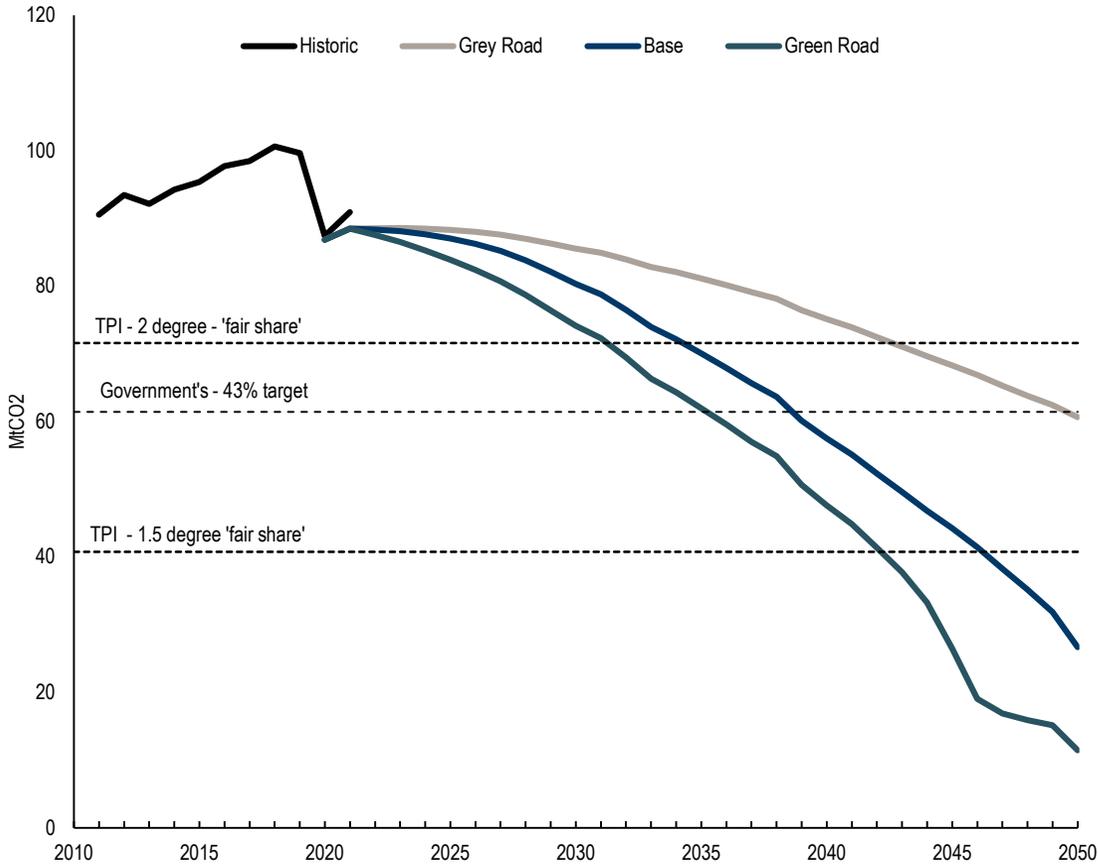
**CS base road:** emissions decrease to 87 MtCO2 by 2030, a 12% decrease, and then fall steeply by 76% to 24 MtCO2 by 2050.

**Green road:** emissions decline by 33% by 2030 and fall to 3 MtCO2, nearly reaching net zero by 2050.

### How do the emissions pathways of these scenarios compare to targets?

- **Aus 43% target:** If we assume each sector contributes their fair share, transport emissions would need to decline to 61MtCO2. None of the three scenarios reach the 43% emissions target. The Green Road scenario gets the closest, with emissions declining 21% by 2030.
- **Transition Pathway Initiative (TPI) pathways** have emissions pathways for both the autos and airline sectors. We calculate a weighted average of the two sectoral estimates based on the proportion of fuel consumption between Aviation and Autos in Australia to illustrate the transport sector's "fair share" of emissions reduction in Australia according to TPI.

Figure: Transport emissions under fuel demand scenarios



Source: NGGI, TPI, Credit Suisse

## Disclosure Appendix

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I, Phineas Glover, certify that (1) the views expressed in this report accurately reflect my personal views about all of the subject companies and securities and (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.

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**Outperform (O)** : The stock's total return is expected to outperform the relevant benchmark\* over the next 12 months.

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# ESG Integration in Equities Analysis – Sharing on Thailand's Perspective (Thai Language)



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