

S&P Global Sustainable1 Investor Client Council

Agenda & Subject Briefings



H1, 2024 13:30-17:30 Local Time

S&P Global

S&P Global Sustainable1 Investor Client Council

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Introduction and Welcome

Dear Council Members,

Welcome back to a new year of the Investor Client Council. As we commence the second year of our cycle, I want to emphasize the continued importance of the Council to our stakeholders and to the sustainability market. Despite the ups and downs for ESG and sustainability, we continue to believe that together we can make our word better and work towards a greener and more sustainable future.

If you are joining us for the first time – welcome! A welcome packet is available to you on our website and we are thrilled to be including new faces and more value to our discussion.

The transition continues to be not only a hot topic but a critical one for achieving our net zero goals and beyond. The shift towards renewable energy sources, coupled with the electrification of transportation holds the key to achieving a sustainable future. We are excited to be welcoming members of our sister divisions, S&P Global Commodity Insights and S&P Global Mobility to discuss the collaborative efforts these sectors promise to reduce carbon and also foster economic growth and social resilience through the climate transition.

Our initiative now also welcomes presentations from our members to help foster a community of collaboration and growth. We are excited to continue along this journey with you and look forward to working together to accelerate this transition, ensuring a greener and cleaner planet for generations to come.

Should you have any questions, comments, or concerns, please kindly reach out to our Council Secretary, Rebecca Taylor at rebecca.taylor1@spglobal.com or Myrna Ghanem at myrna.ghanem@spglobal.com. We hope you will find your membership of the Investor Council a rewarding and valuable experience — as we work together towards a more sustainable future.

Thank you again for your participation and a very warm welcome back to our expert community.

Sincerely,

Mona Naqvi

Chair of the Investor Client Council

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S&P Global Sustainable 1 Investor Client Council

S&P Global Sustainable 1 Investor Client Council 2024 Council Meeting Guidelines

The S&P Global Sustainable 1 Investor Council ("Investor Council") is a community of renowned industry experts, who meet regularly to discuss business challenges and opportunities arising from sustainability issues. Its members provide S&P Global with invaluable insights and expertise inform best practices and deepen our firm's understanding to better serve the evolving needs of the market through the creation of relevant products and services.

The below Guidelines are established to ensure all members are engaged in conversations that are legally appropriate while promoting the sharing of insights and expertise relevant to the success of the Investor Council.

Each member of the Investor Council shall hold all information shared with and in connection with the Investor Council in strict confidence. Each member of the Investor Council shall <u>only</u> share such information with any persons or entities who are members of the Investor Council and shall <u>only</u> share such information with any persons or entities who have executed the appropriate Investor Council NDA with S&P Global.

S&P Global Sustainable1 produces a company's S&P Global ESG Score in accordance with its published methodology. S&P Global is committed to the independence and objectivity of its products and services and has policies in place to help maintain an appropriate separation between its different business units, including S&P Global Sustainable1 which develops S&P Global ESG Scores. For the avoidance of doubt, the Investor Council shall

involved and shall not influence or attempt to influence S&P Global Sustainable1's methodologies, policies, or practices in connection with the S&P Global ESG Score and its related operations. Further, all parties involved with the Investor Council understand that any business relationships any Investor Council member has with S&P Global, and vice-versa, are separate and distinct from the Investor Council.

By participating in the Investor Council, each member of the Investor Council understands and agrees to these Guidelines.

or

Please contact S&P Global Sustainable1 Legal via Mona Naqvi (mona.naqvi@spglobal.com), Rebecca Taylor rebecca.taylor1@spglobal.com), Rebecca Taylor

Myrna Ghanem (myrna.ghanem@spglobal.com),

the Investor Council Admin (InvestorClientCouncilAdmin@spglobal.com)

if you have any questions about the application of this guidance.



Permitted	Not Permitted
Discuss public or non-commercial matters: market trends; perspectives on ESG regulation; industry studies best practices high-level product development evolution thought processes and concepts S&P Product launches or expansions, including standardized models and analytics, to the extent presented by S&P Global Sustainable in connection with the Investor Council	Discuss non-public: Pricing/commercial policy Marketing efforts Specific or granular cost information Particular customers or vendors No discussion on specificities of scores or methodologies except to the extent already publicly disclosed
Set an agenda for each meeting and review with Legal if any questions.	Discuss specifics of how market trends affect each company or examples of customers Discuss product pipeline ideas, methodology changes, specific business strategies, specific intended developments, trade secrets, or know-how
Raise any concerns about discussion topics at a meeting. If discussions continue, leave the meeting and ensure that your departure is recorded in writing. Report any concerns to Legal. Remember all written communications (including emails and notebooks) may be disclosable to a regulatory or legal authority (including without limitation a competition authority).	Allow any departures or deviations from the stated agenda. Allow analytical employees to attend without appropriate legal and compliance review and approval Apply different standards of behaviour to information sharing in a less formal or social setting.
Ensure the legitimate professional objective behind discussions is clear in any written communications. Ensure discussions are accurately recorded.	Use language which could be misinterpreted. Use language that is factually incorrect

Agenda and Subject Briefs

Please see below for access to the document.





S&P Global Sustainable1

Investor Client Council

SESSION AGENDA

13.30 - 14.00: Registration & Refreshments

14.00 - 14.10: Welcoming Remarks

14.10 - 14.20: Purpose & Objectives

Mona Naqvi, Chair of the Investor Client Council

14.20 - 14.40: Keynote

14.40 - 15.45: Decarbonization and Pathways to Net Zero (See Attached Briefing)

Exploring how the Energy Trilemma and a shift towards Energy Pragmatism is shaping investment in the Energy Transition.

- Examining the trade-off between energy sustainability, security, and affordability
- S&P Global Commodity Insights' approach to supporting the Energy Transition

15.45 - 16.00: Break

16.00 - 17.00: Automotive - Electrification is Getting Complicated (See Attached Briefing)

Decarbonizing the automotive sector is a complex undertaking, and one looking increasingly fraught.

- Why the industry's transition to electric vehicles is looking increasingly challenging
- Exploring implications for investors' carbon footprints, risk management, and capital allocation
- S&P Global's approaches to whole-lifecycle automotive emissions analysis

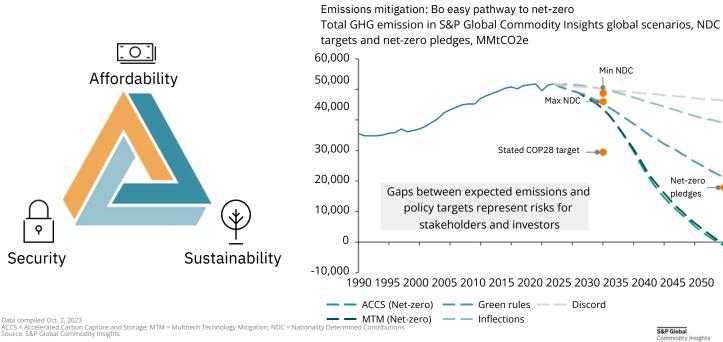
17.00 - 17.20: Keynote

17.20 - 17.30: Concluding Remarks

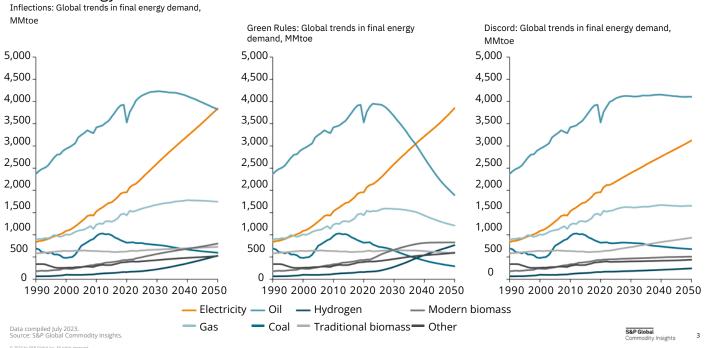
Mona Naqvi, Chair of the Investor Client Council

17.30 - 20.30: Networking Reception, Drinks & Food

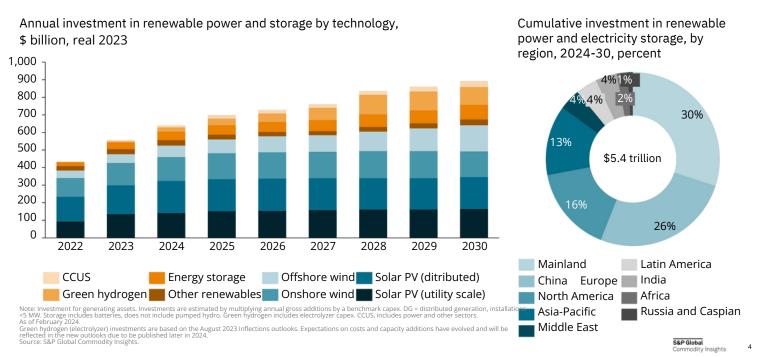
Balancing priorities of the Energy Trilemma in multidimensional path to net-zero - to achieve Net Zero the world must reinvent its energy systems at a scale never attempted in history



The future of final energy use is electricity, which by 2050 will account for a 27% to 40% share of total energy

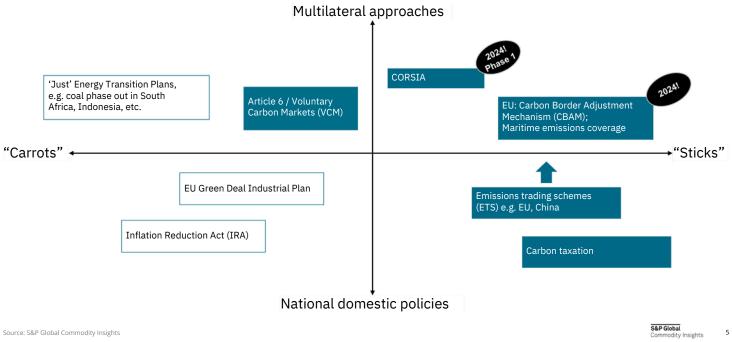


To meet this power demand growth, investments in renewables, storage, green hydrogen production and CCUS are expected to hit \$900 billion per year in 2030

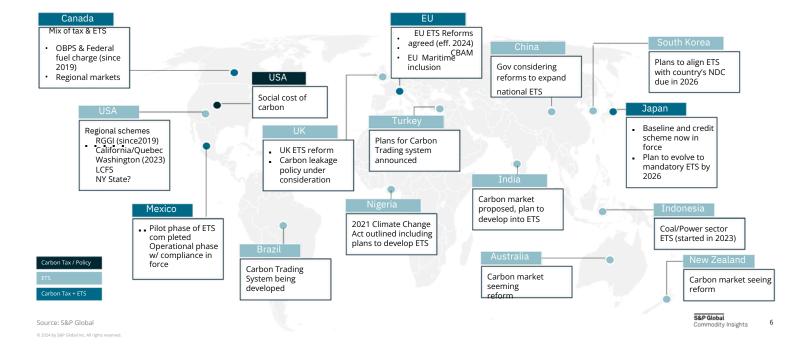


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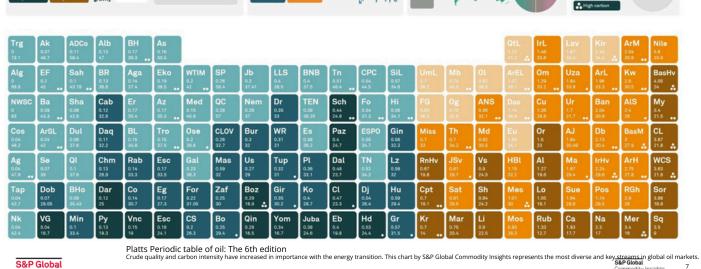
Key differences emerging in approaches towards climate policy – as well as carbon finance, carbon pricing and carbon markets



Compliance carbon pricing continue to expand globally: 25% of global emissions covered by carbon pricing – increased adoption can be observed across major carbon emitters Compliance carbon pricing schemes and recent developments, selected schemes



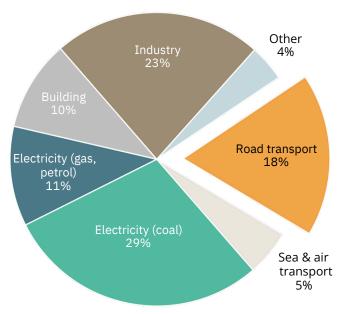
S&P Global Commodity Insights is expanding its coverage and measurement of carbon intensity of commodities, on crude oil & beyond, to add GHG transparency



Commodity Insights

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The automotive sector generates one-sixth of global carbon emissions Global CO emissions

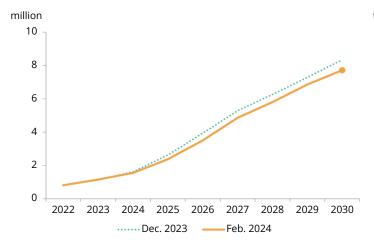


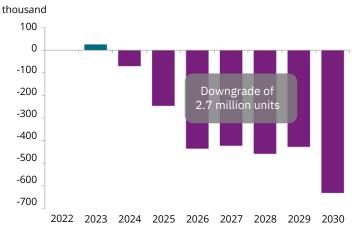
Data compiled January 2024. Sources: IEA; S&P Global Mobility.



Expectations for electric vehicle adoption are weakening

North American production forecast change, Dec 2023 vs Feb 2024





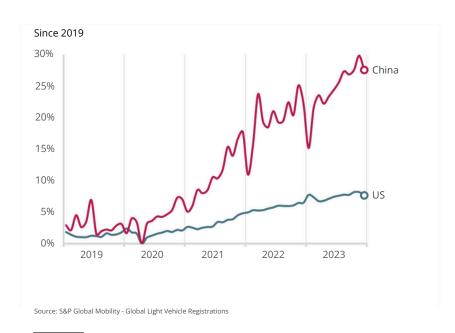
Data compiled March 4,2024 Source: S&P Global Mobility

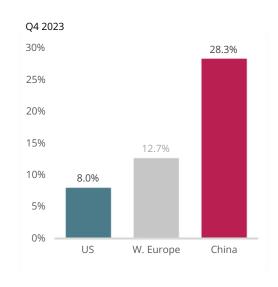
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Electric vehicle penetration diverging among key regions

Battery electric vehicle sales as % of market

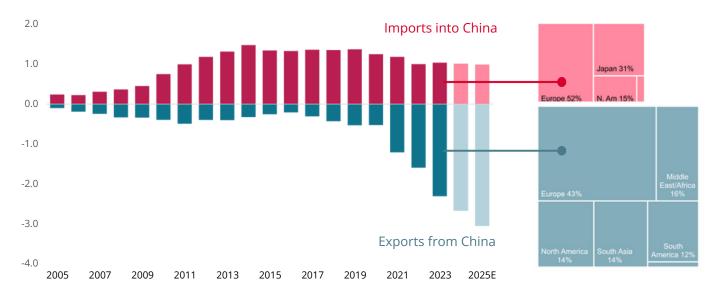




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China is maturing into an export superpower

Vehicle sales (millions of units)



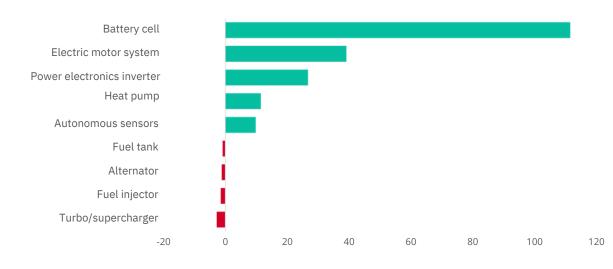
Source: S&P Global Mobility – Light Vehicle Forecasts

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Supply chains will be substantially reconfigured

Forecasted demand change, notable automotive component markets 2024-29 (\$bn)



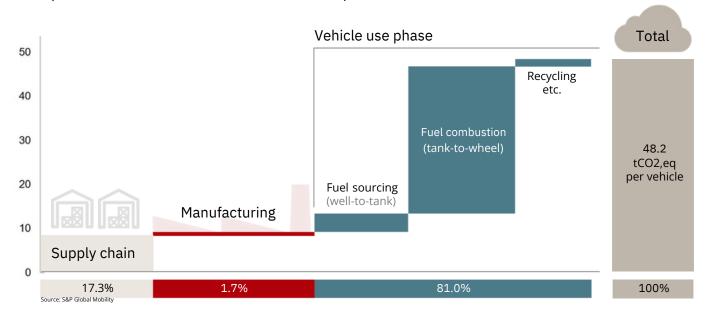
Source: S&P Global Mobility Supply Chain Technology

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Total emissions: Use phase of vehicles is the primary driver

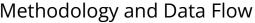
Example manufacturer CO2 breakdown (tCO2,eq/vehicle)



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Mobility

Methodology and Data Flow Use phase CO emissions, vehicle manufacturer

Fuel Electricity Vehicle Combustion Lifetime Regional production production sales volumes energy mix miles **CO**intensity COantensity **CO**antensity Powertrain 'Well-to-tank" CO2 "Tank-to-wheel" CO2 type combustion refinement, transport internal combustion Total use phase CO2 Zero tailpipe electric emission transmission Source: S&P Global Mobility.

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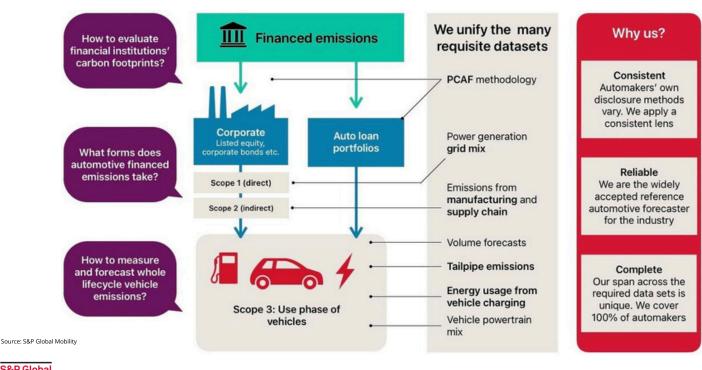
Calculation

Input data

Output

8

Many implications for financed emissions



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