Global Net-Zero Action

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The Net-Zero Playbook
Building Resilience, Accelerating Growth

24 – 25 May 2022 I 9:00am - 5:00pm GMT+8

FULLY VIRTUAL

Co-Organised by:

MiGHT Malaysian Industry-Government Group for High Technology

confexhub® Thought Leader Network Solutions

www.globalnetzeroaction.com

The Net-Zero Playbook - Building Resilience, Accelerating Growth

Climate and weather extremes caused by climate change and their adverse impacts on cities and their economies will continue to increase with every additional increment of rising temperatures. At the recent COP26, one-hundred and ninety-seven countries reaffirm their commitment to the Convention and the goals of the Paris Agreement, committing to limit the global average temperature rise to 1.5 C. Countries stressed the urgency to accelerate climate action where carbon dioxide emissions must be reduced by 45 percent of current levels by 2030 to reach net-zero by 2050.

The countries further agree to the Glasgow Climate Pact, a new climate deal calling for accelerates climate action in this critical decade, and to adopt net-zero standard technologies as part of decarbonization programs including scaling up low-emission energy systems in all economic sectors. Despite receiving resounding political and boardroom supports, there are raising concerns among the policymakers and the industry leaders seeking clarity, directions and solutions on the climate action plan. There are more vital questions than answers. What policy is needed to be aligned with 1.5 C? What solutions can be deployed immediately and scale quickly? What unicorn and innovative products or services could revolutionize the decarbonization market in the next decade? What opportunities does a net-zero economy provides to industries and how does it drives sustainable development growth?

The NZA2022 with the overarching theme "The Net-Zero Playbook - Building Resilience, Accelerating Growth" aims to provide the answers through a curated program; delivering changed perspectives and assessments to support government and business's climate transition action plans in meeting net-zero emission targets. The Summit will provide essential discussions on potential net-zero carbon roadmaps to address GHG emissions in companies, industries, and cities' own operations and value chains. Each session is designed to incite new ideas and provide valuable insights and guide policymakers and leaders in making informed decisions when developing climate-resilient policies and business models. Development of green growth and circular policies and incentives to promote uptake of climate mitigation technology in cities and industries will be part of the agenda.

The NZA2022 will further elaborate on a practical net-zero playbook for transition to net-zero. Focused sessions on embedded carbon reduction in supply chains from company operations to scaling up clean energy and energy efficiency in the transport and built environment sectors, and the role of ESG in environmental reporting to trading of carbon allowances and offsets for high-value carbons will be presented and discussed by the international experts, industry leaders and policymakers from across 15 countries. The Summit aims to deliver clear and actionable way forward approaches and strategies, and solutions for the accelerated climate action plan in transitioning towards net-zero futures.

The Key takeaways from the Global Net-Zero Action 2022 are:

- What are the green growth opportunities in science-based decarbonization technology for industrial, transport and energy applications
- How ESG and sustainability disclosures and reporting drives performance and credit ratings of Corporates and SMEs
- Why the adoption of net-zero supply chain practices is necessary and how it opens up new opportunities in the global markets
- How cities can transition from low carbon to a resilient, inclusive and sustainable city through a net-zero carbon city concept
- How governments and corporates can unlock positive values in carbon offsets and the carbon markets
- How to leverage on climate green bonds to finance decarbonization projects

The Paris Agreement Overview (as of April 2018)

175
Countries
Ratified the PA

168
Countries
Submitted NDC

10
Developing Countries
Submitted National Adaptation Plans

25
Countries
Implemented National Carbon Taxes

USD100bn
Mobilization
By Developed Countries

ASIA's Climate Change and Carbon Management Response

ZERO
China, Japan & South Korea
Net-Zero Emissions by 2050

USD1.7
Trillion
Infrastructure Investment By 2030

USD1.9
Trillion
Eco-labelling Products Demand By 2050

90
Million Hectares
of Reforestation by 2050

45%
Asia's Share
of Global GHG Emissions

35%
Asia's Share of Global GHG Emissions
in Power Generation

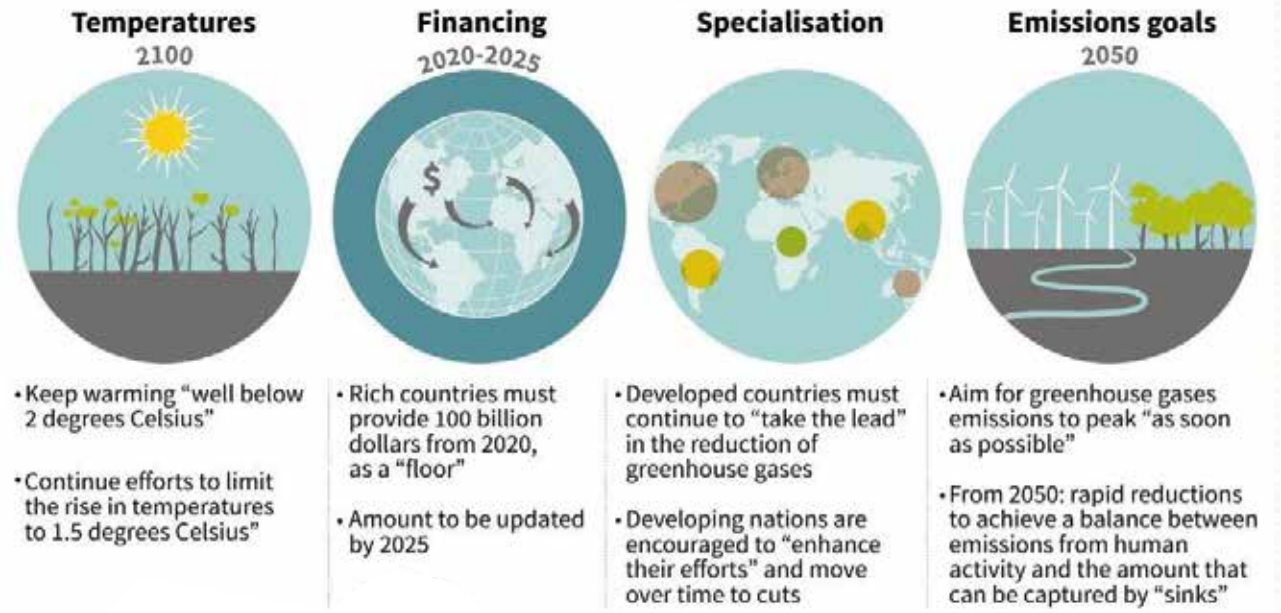
30%
Asia's Share of Global GHG Emissions
In Buildings and Transportation

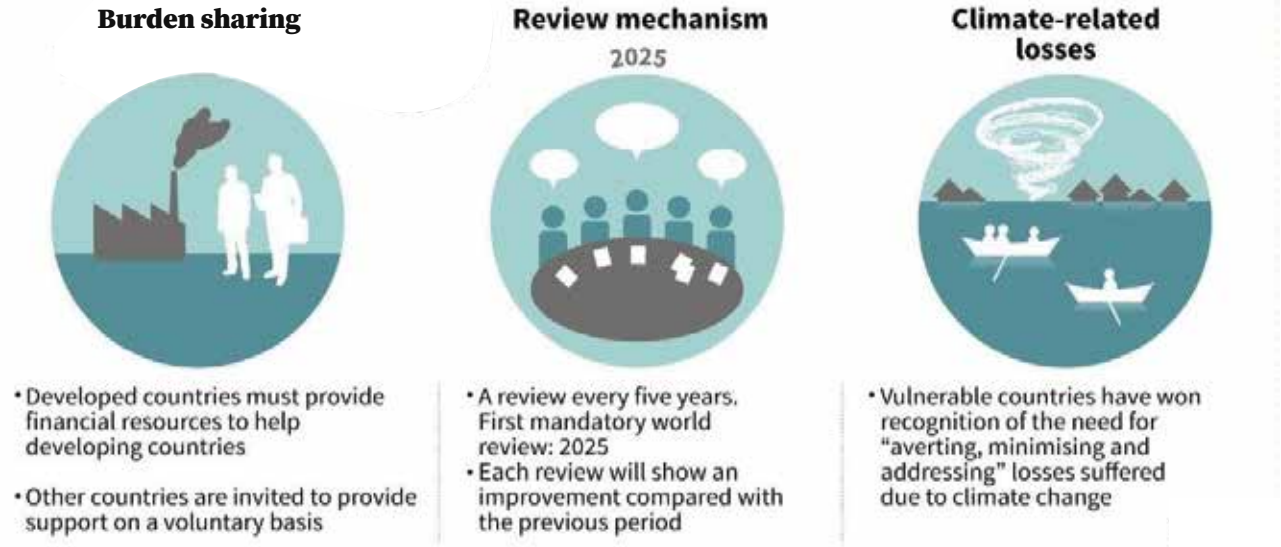
75%
Asia's Share of GHG Emissions
In Transport comes from Road Transportation

What is Carbon Footprint

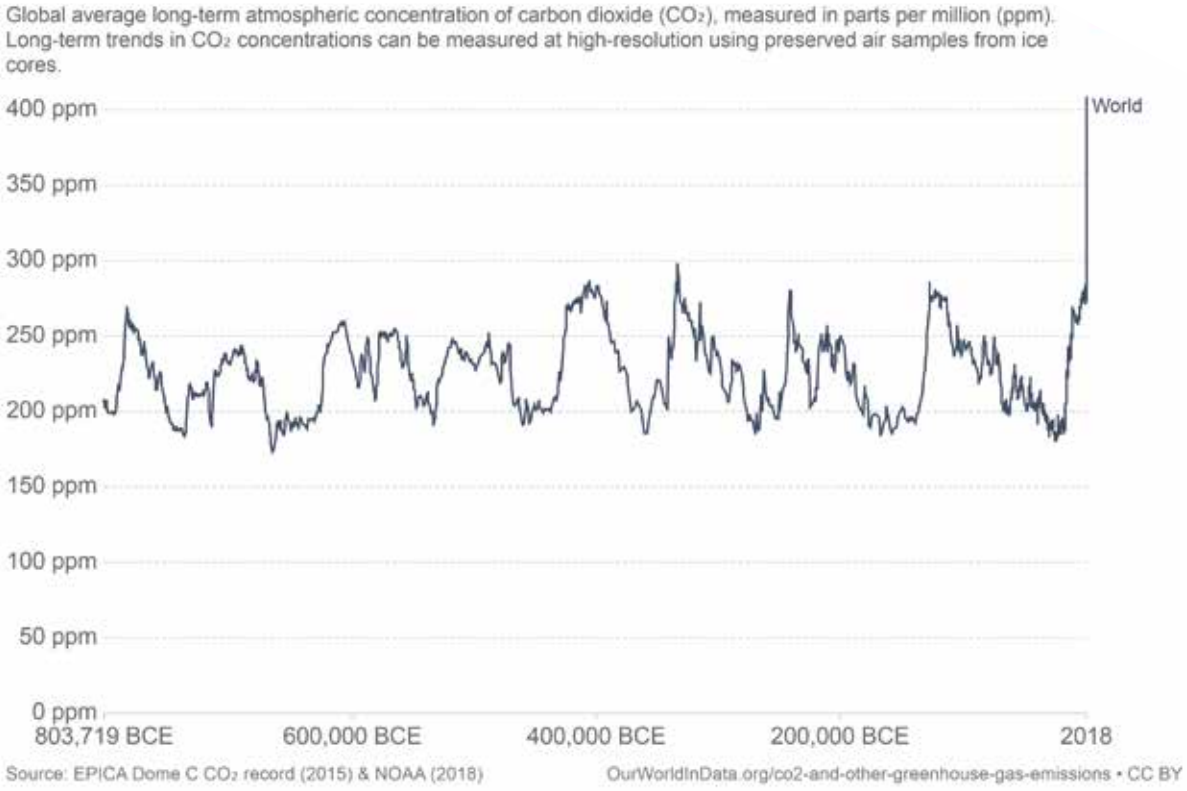
- Total amount of CO2 and other greenhouse gas emissions by an organization.
- Measure the impact of activities on the environment, in particular climate change
- Relates to the amount of greenhouse gases produced through burning fossil fuels for electricity, heating and transportation etc.
- Units - tonnes (or kg) of carbon dioxide.

The Paris Climate Change Agreement: Key Points

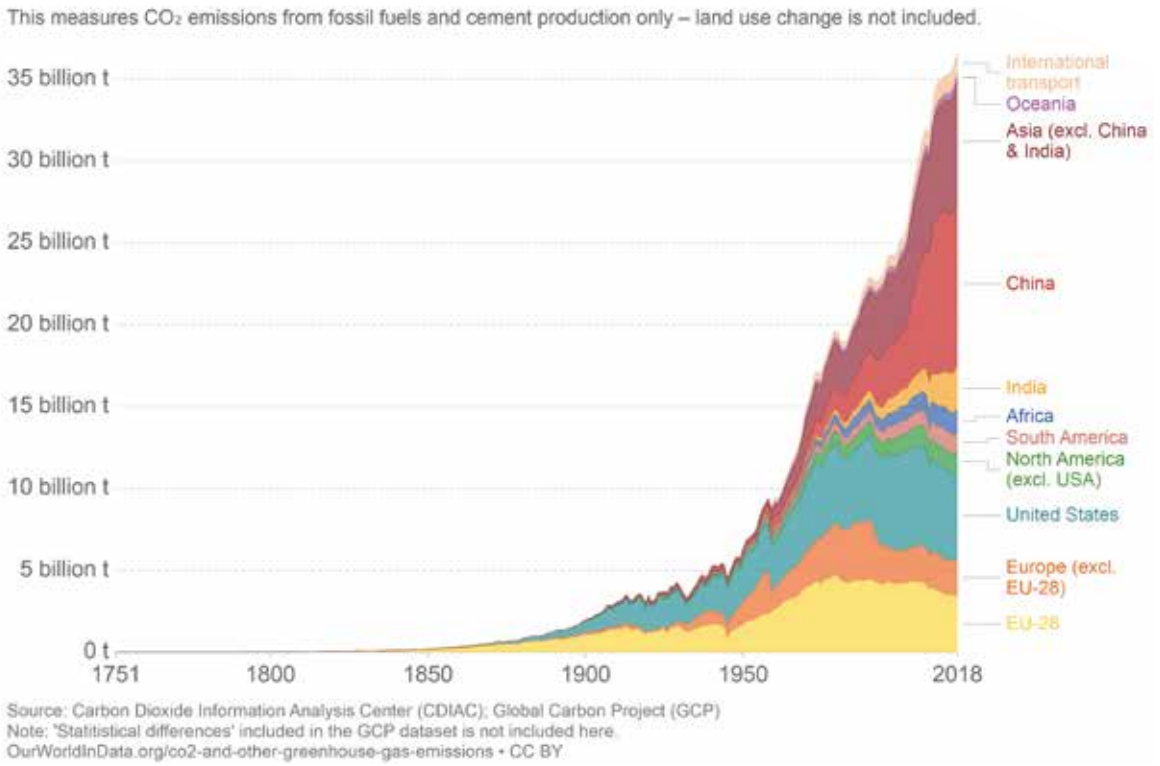




Atmospheric CO_2 Concentration

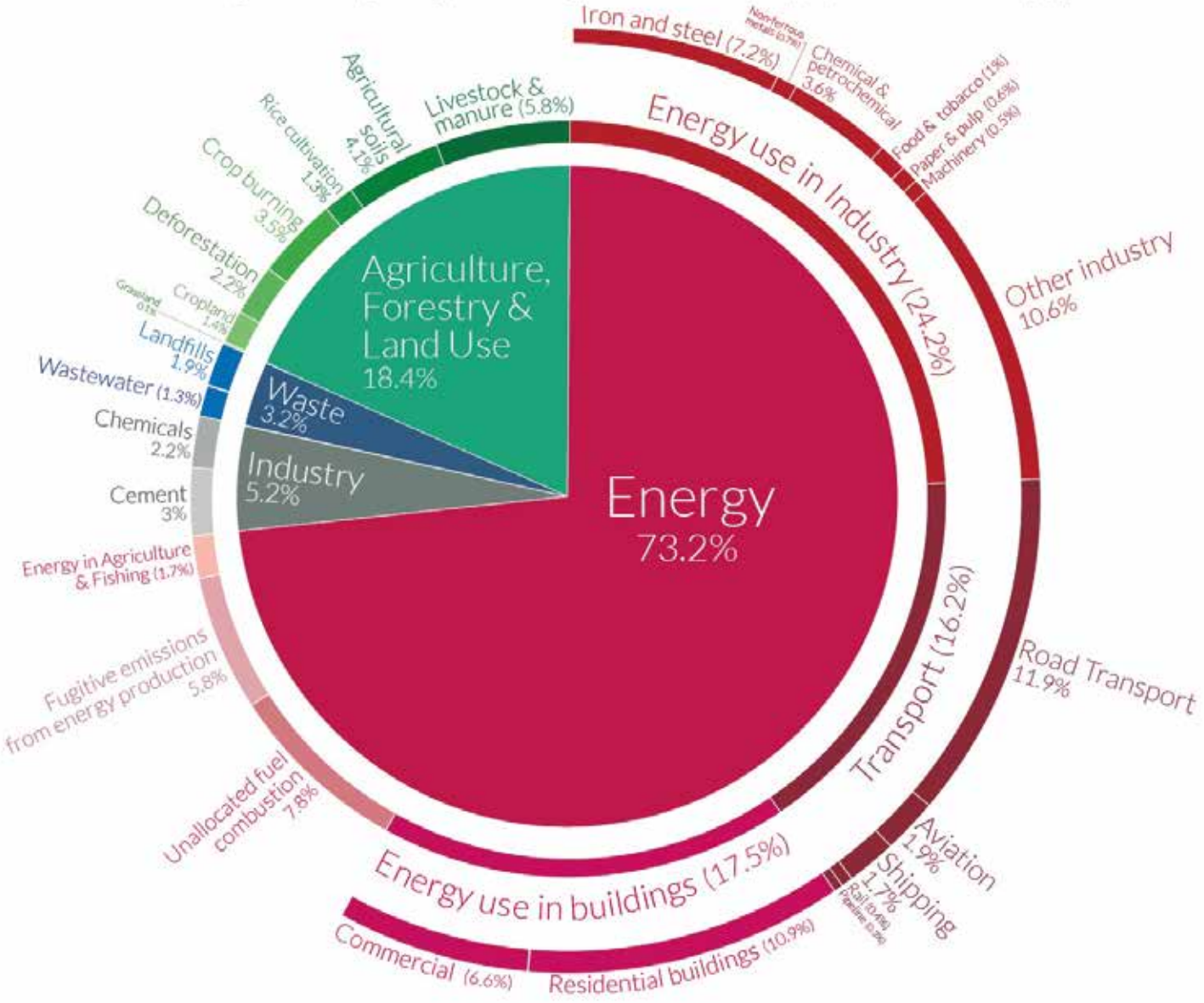


Annual Total CO_2 Emissions, by World Region



Global Greenhouse Gas Emissions by Sector

This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO_2eq.

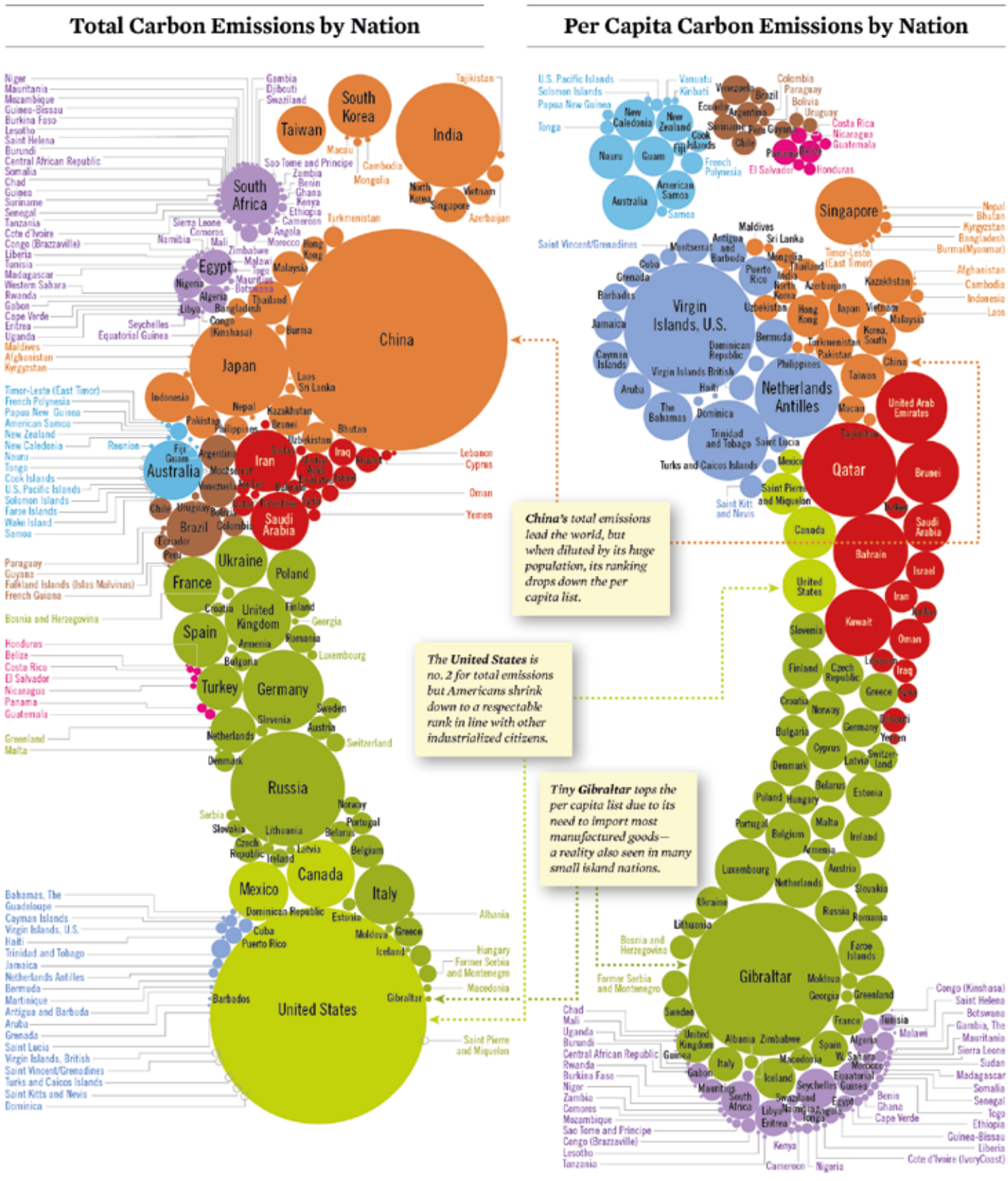


Source: Climate Watch, the World Resources Institute (2020).

Tracking Carbon Emissions

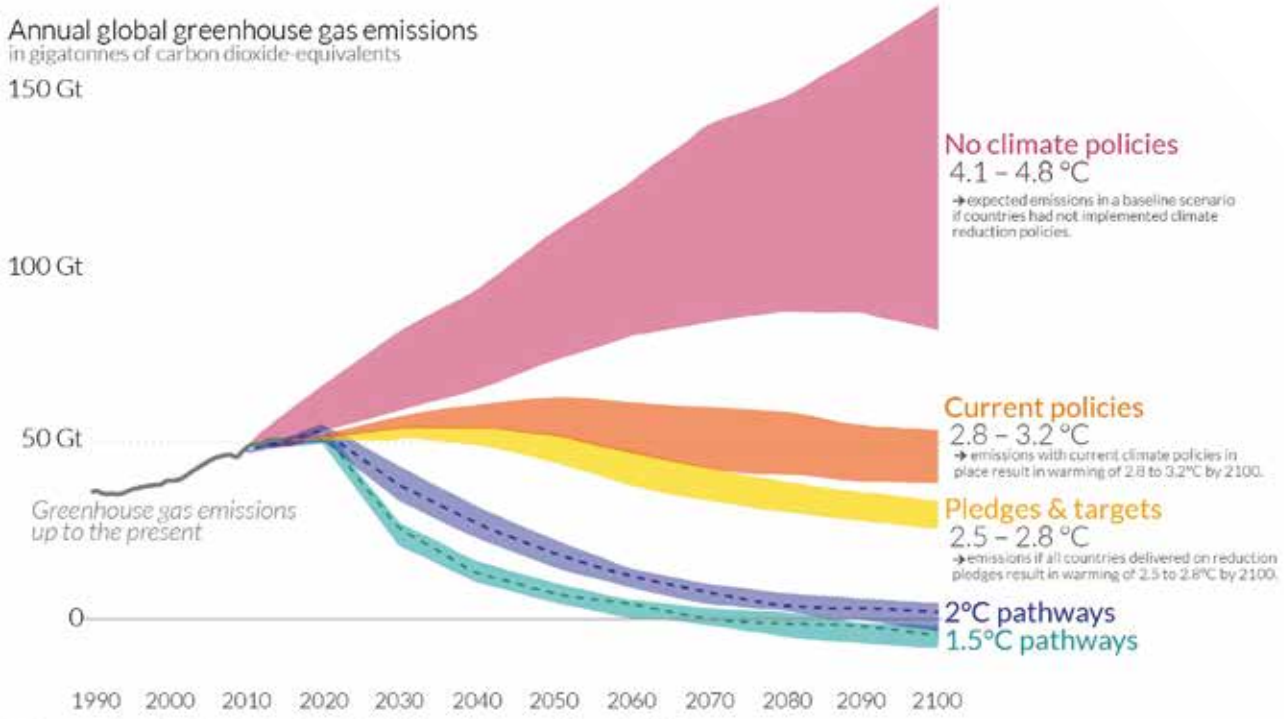
A footprint comparison of total carbon dioxide emissions by nation and per capita shows there's plenty of room for smaller countries to reduce their carbon footprints.

By Stanford Kay

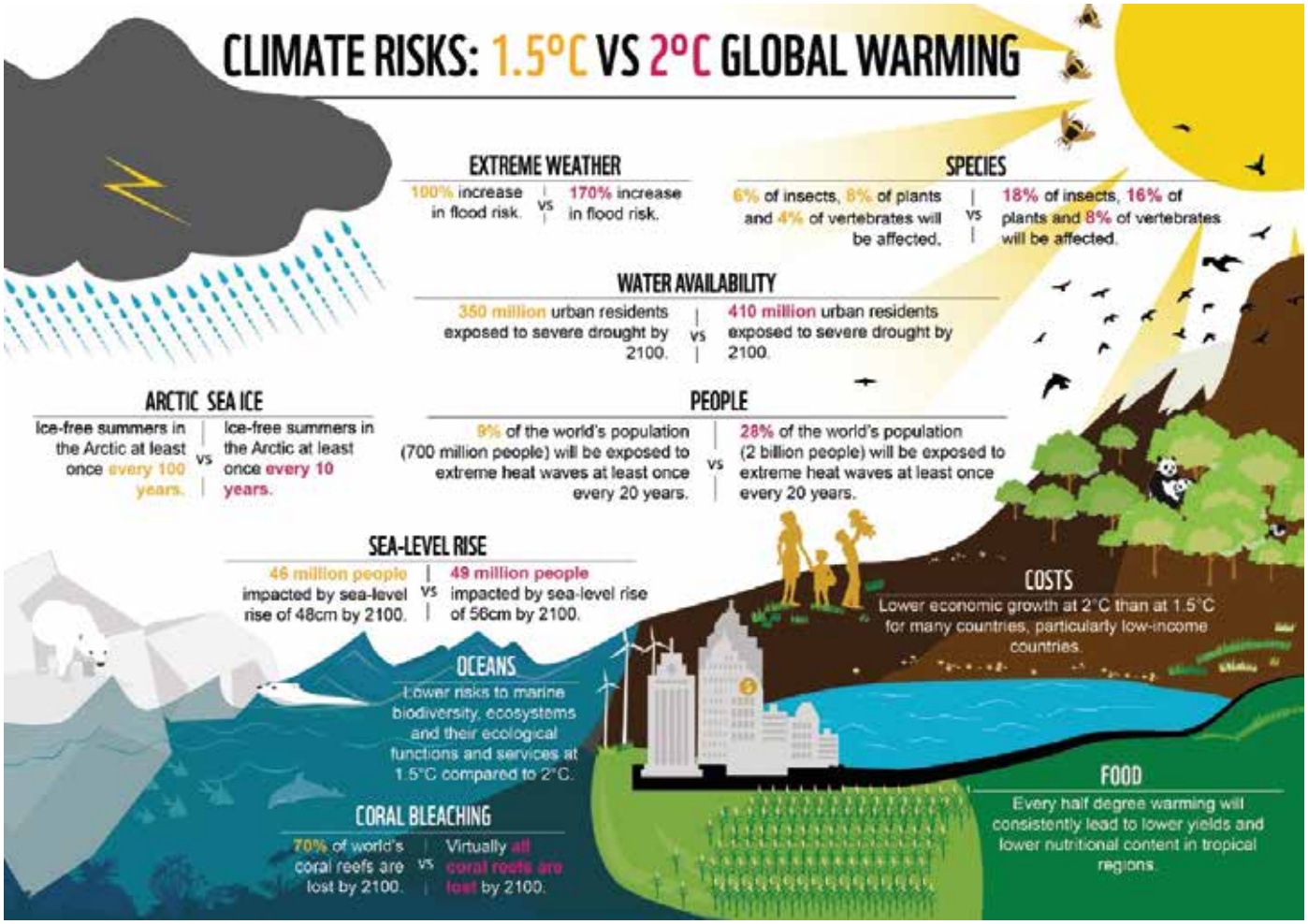


Global Greenhouse Gas Emissions and Warning Scenarions

– Each pathway comes with uncertainty, marked by the shading from low to high emissions under each scenario.
– Warming refers to the expected global temperature rise by 2100, relative to pre-industrial temperatures.



Data source: Climate Action Tracker (based on national policies and pledges as of December 2019).
OurWorldinData.org – Research and data to make progress against the world's largest problems.



Total Asian GHG Emissions

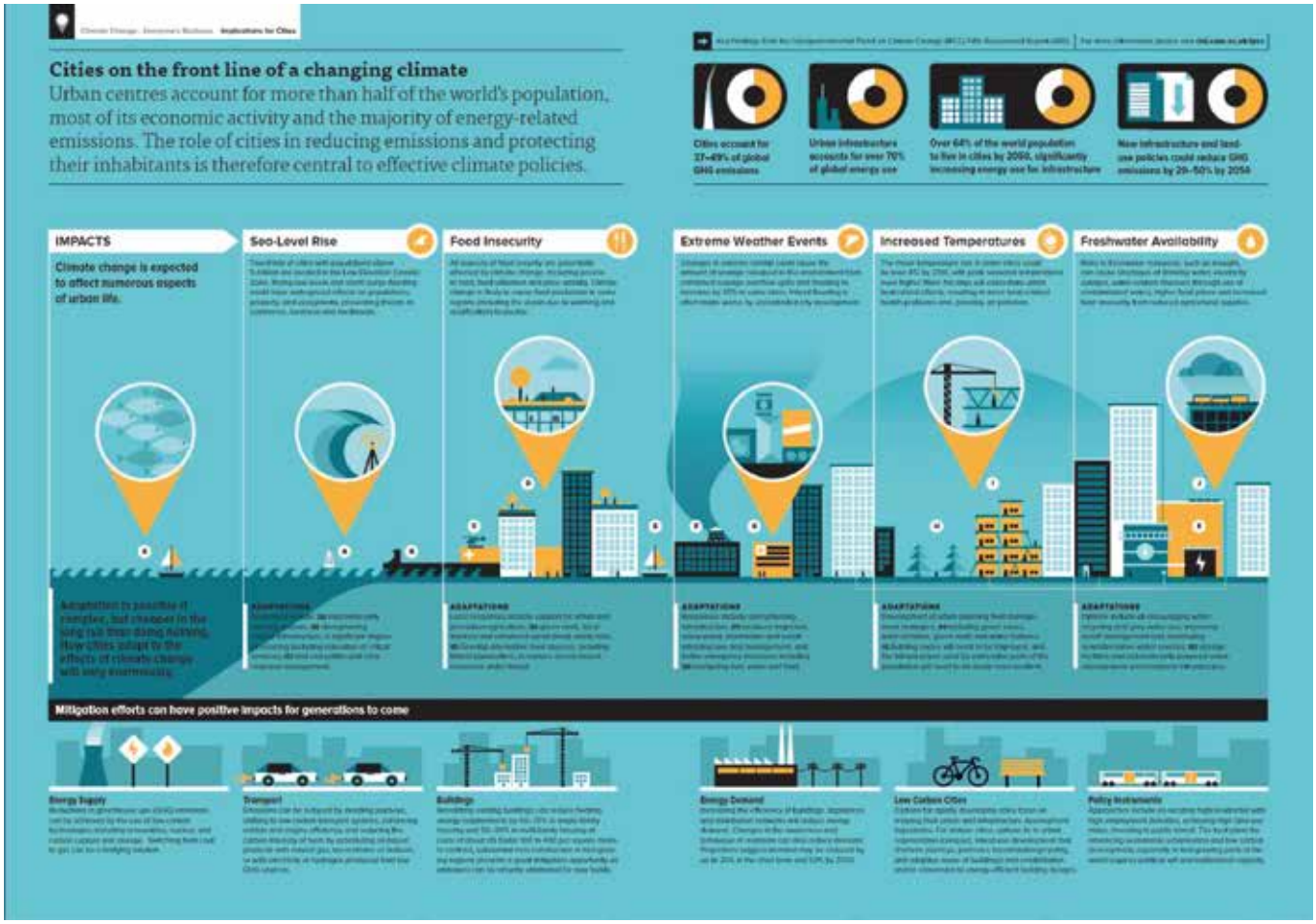
Total Asia GHG emissions, 2016, $MtCO_2e$[1]

Low High

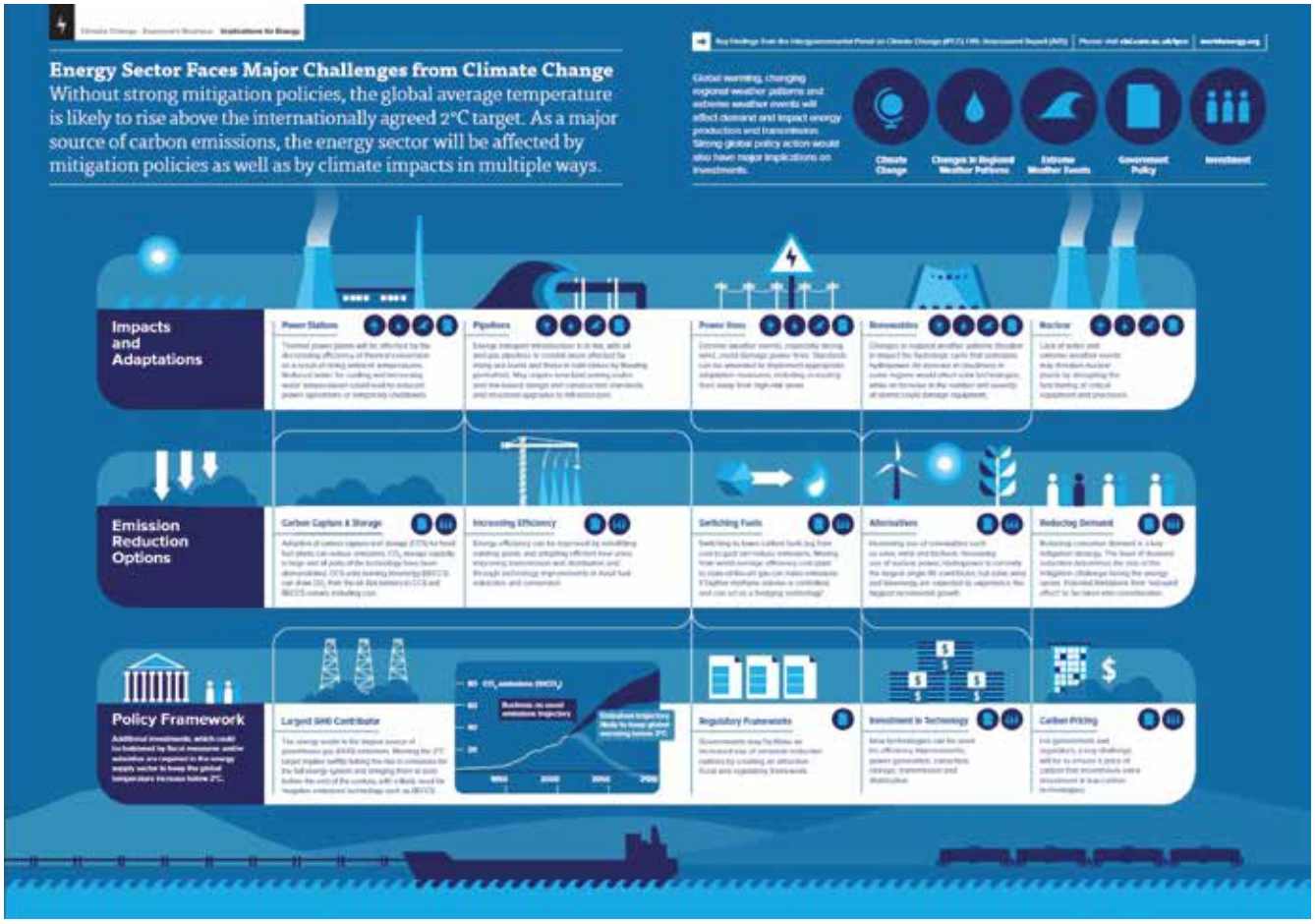
Country[2]	By sector							Total emissions		
	Power	Industry	Agri-culture	Defores-tation	Trans-portation	Buildings	Waste	CO_2	Non-CO_2	GHG
China	4,023	7,732	1,689	4	970	628	1,017	10,338	5,726	16,064
India	1,060	1,327	1,912	34	288	141	758	2,249	3,271	5,520
Indonesia	181	742	456	1,115	147	26	237	1,630	1,274	2,904
Japan	484	422	64	0	244	118	31	1,214	148	1,363
Australia	188	512	290	10	111	15	88	441	773	1,215
Pakistan	43	183	470	0	50	19	90	192	662	854
South Korea	279	233	37	0	153	53	46	675	127	803
Thailand	93	220	186	15	92	7	59	320	352	672
Myanmar	7	44	226	321	5	4	28	345	289	635
Vietnam	78	209	193	3	42	12	60	233	364	597
Malaysia	106	199	24	52	73	5	46	288	218	506
Philippines	54	77	176	1	38	6	81	130	304	435
Bangladesh	34	76	226	5	12	9	71	86	348	434
New Zealand	3	19	111	1	18	2	18	37	134	171
Total	**6,634**	**11,995**	**6,061**	**1,561**	**2,242**	**1,046**	**2,631**	**18,178**	**13,992**	**32,170**

Source: McKinsey Global Institute

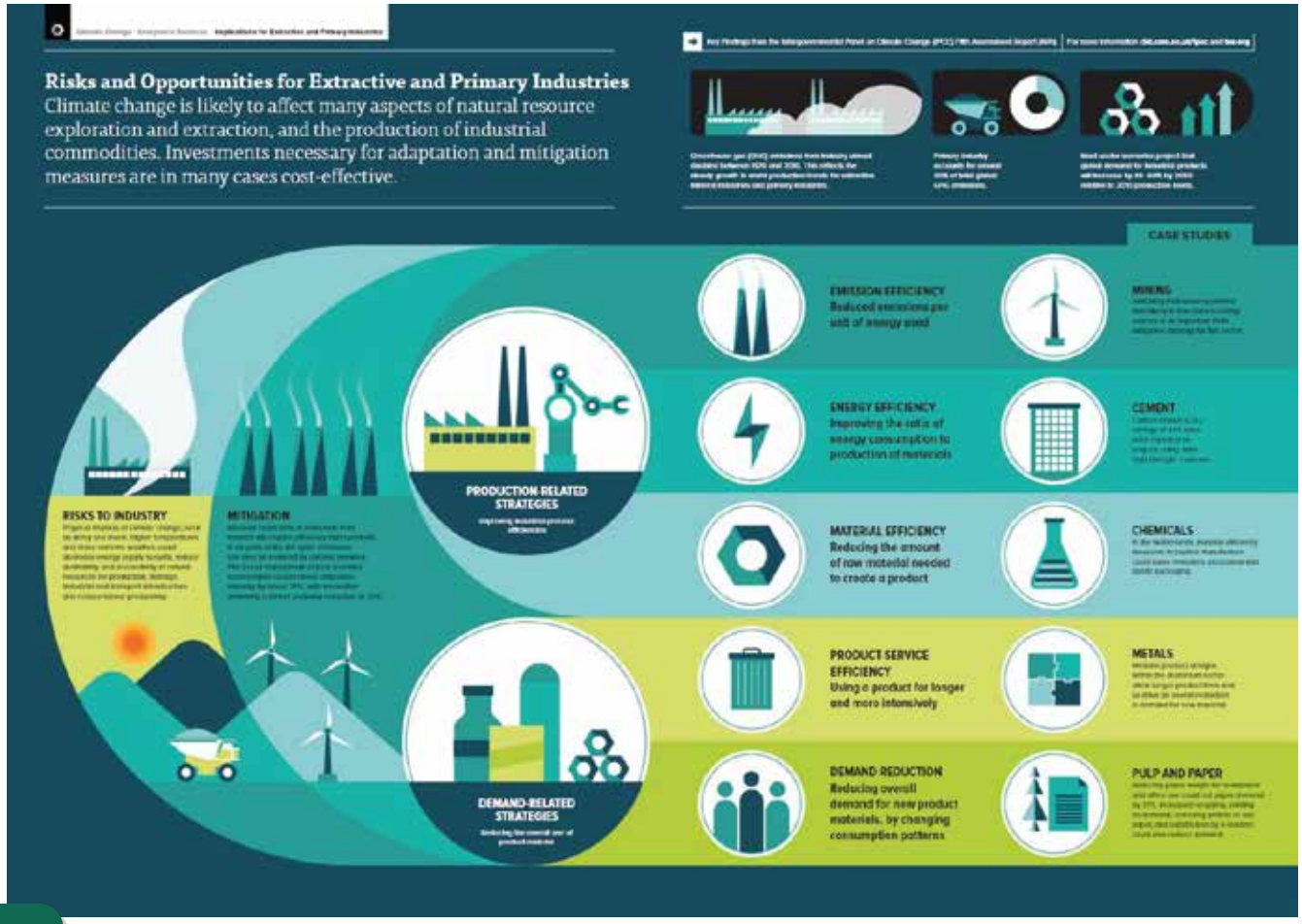
Impacts of Climate Change on Cities



Impacts of Climate Change on Energy Sector

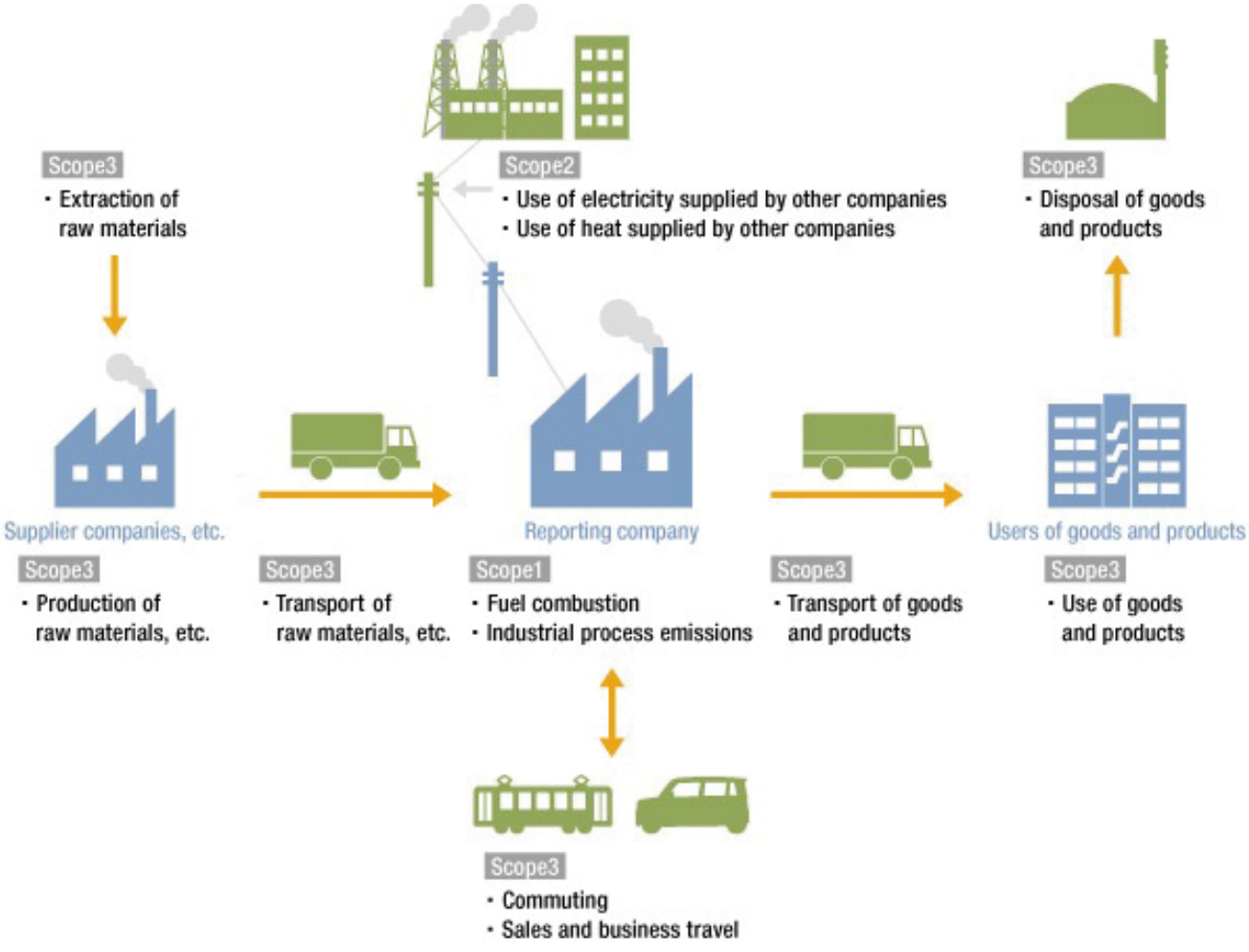


Impacts of Climate Change on Industries



Carbon Footprint of Buildings

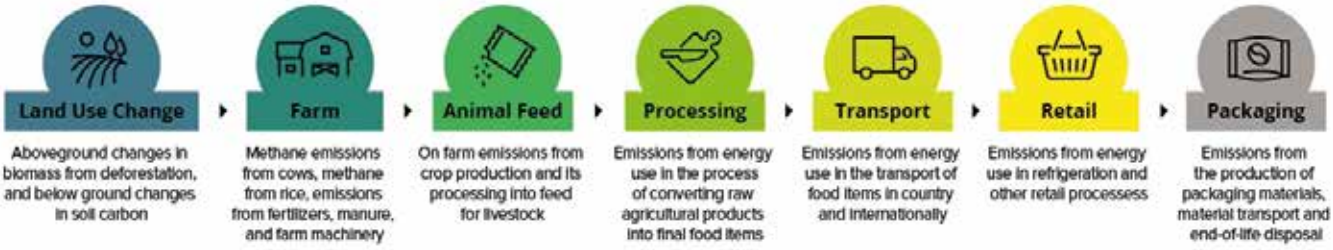
Carbon Footprint of Manufacturing

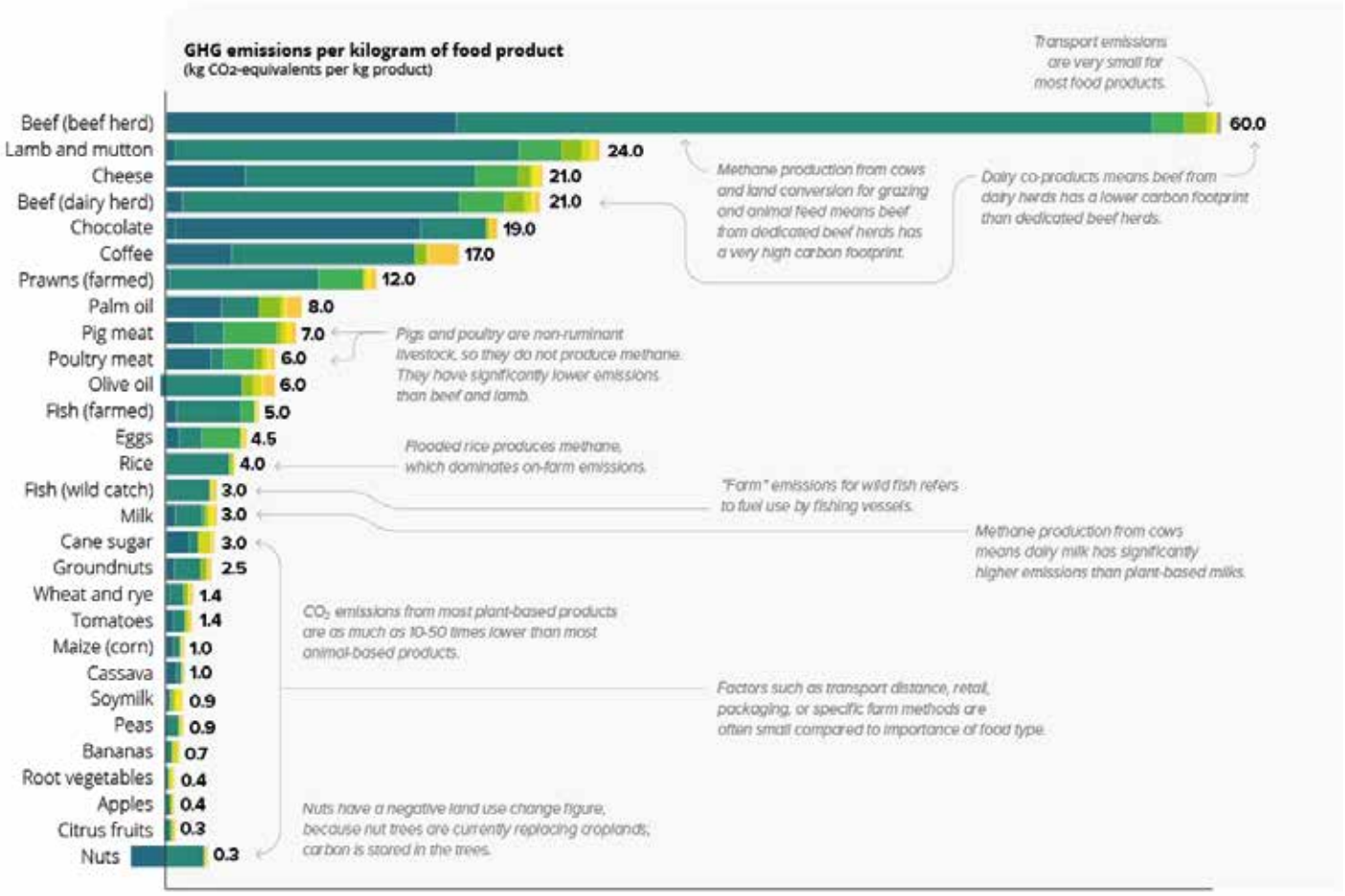


Carbon Footprint of Agriculture

FOOD / Greenhouse gas emissions across the supply chain

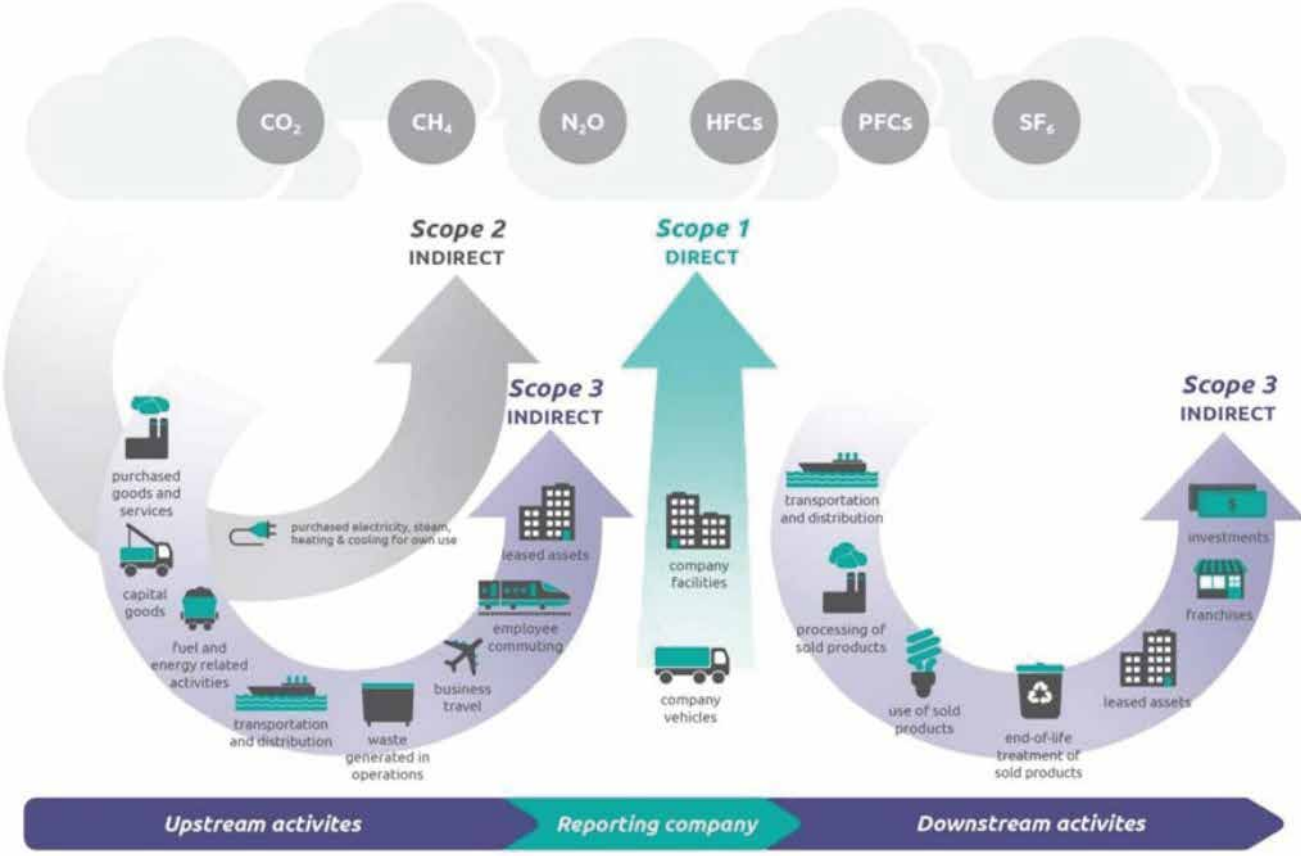
There is a vast difference in greenhouse gases (GHG) that are produced across various food types.



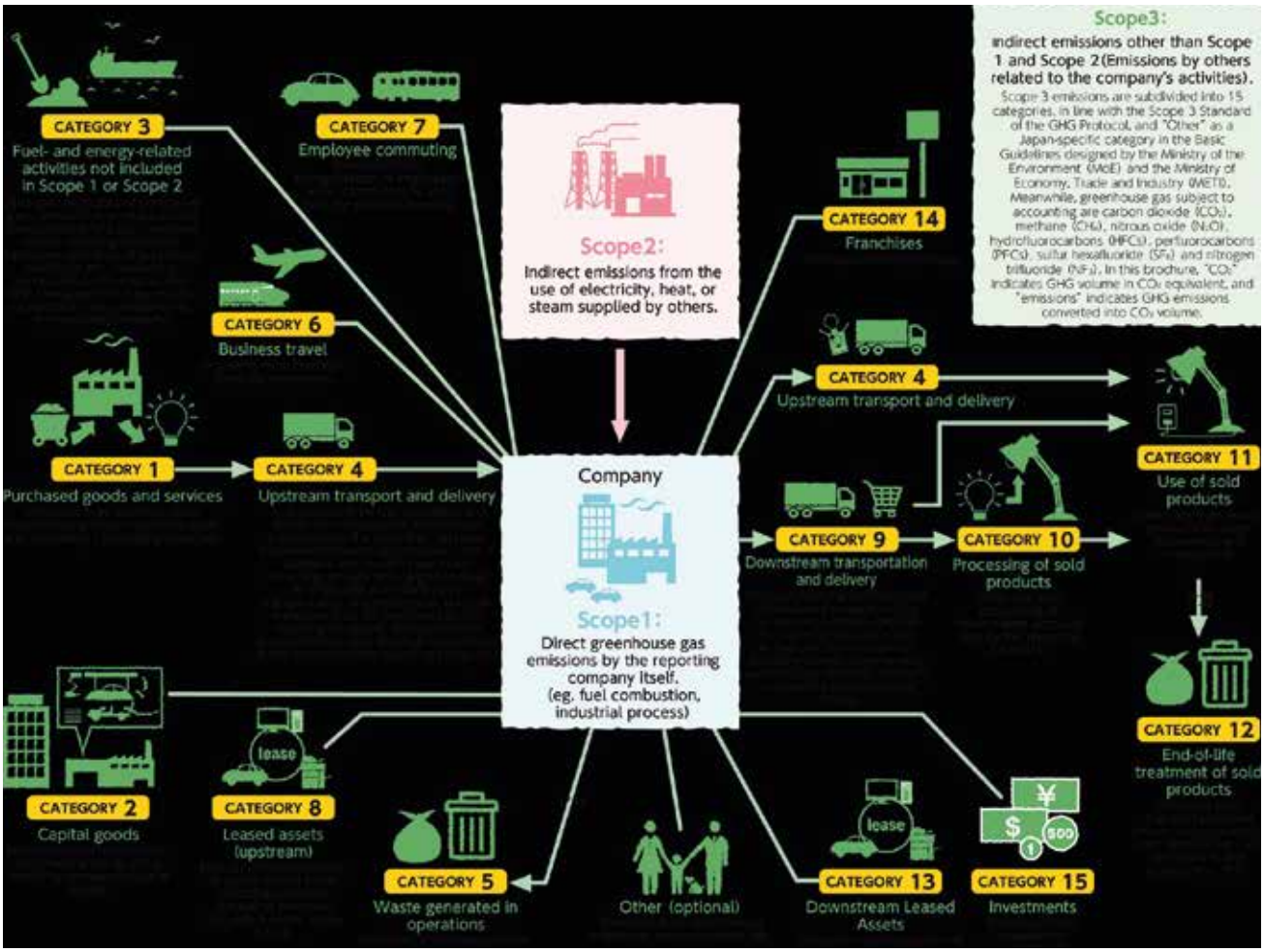


Note: Greenhouse gas emissions are given as global average values based on data across 38,700 commercially viable farms in 119 countries.
Data source: Poore and Nemecek (2018). Reducing food's environmental impacts through producers and consumers. Science. Images sourced from the Noun Project. OurWorldInData.org - Research and data to make progress against the world's largest problems.

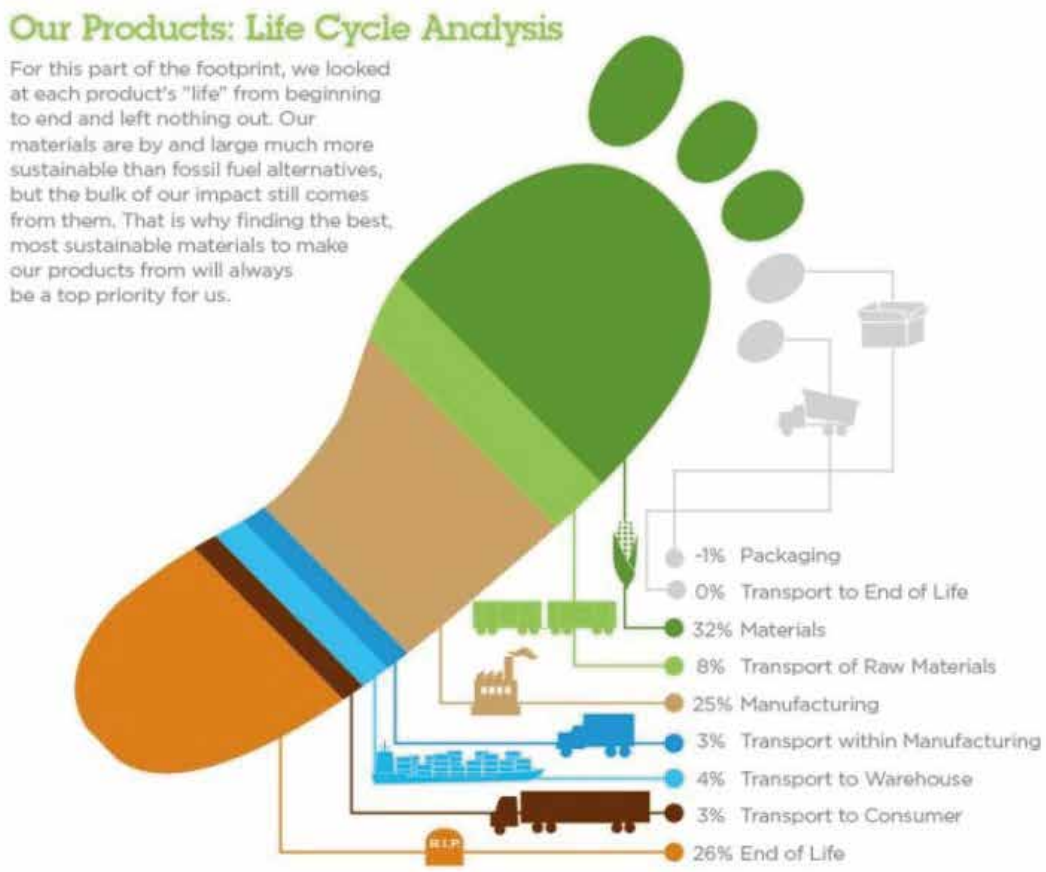
Scope of GHG Emissions



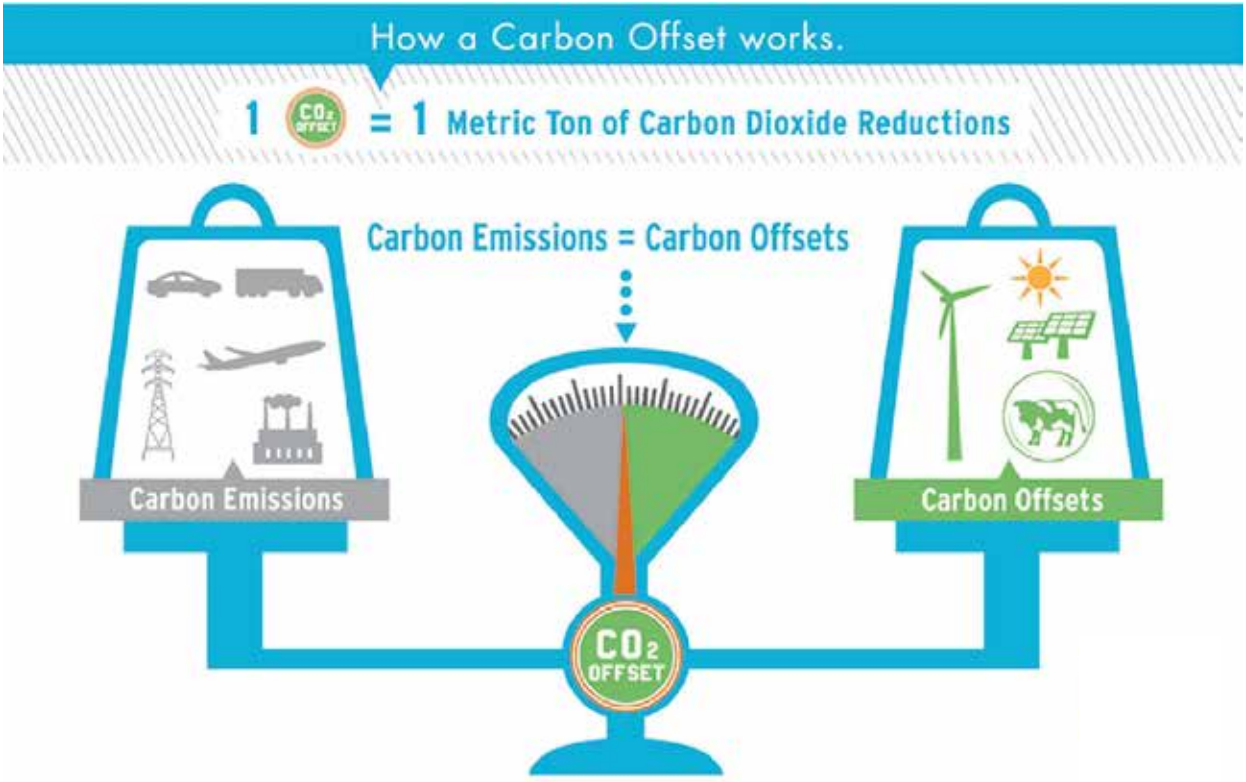
Organization Carbon Footprint Assessment



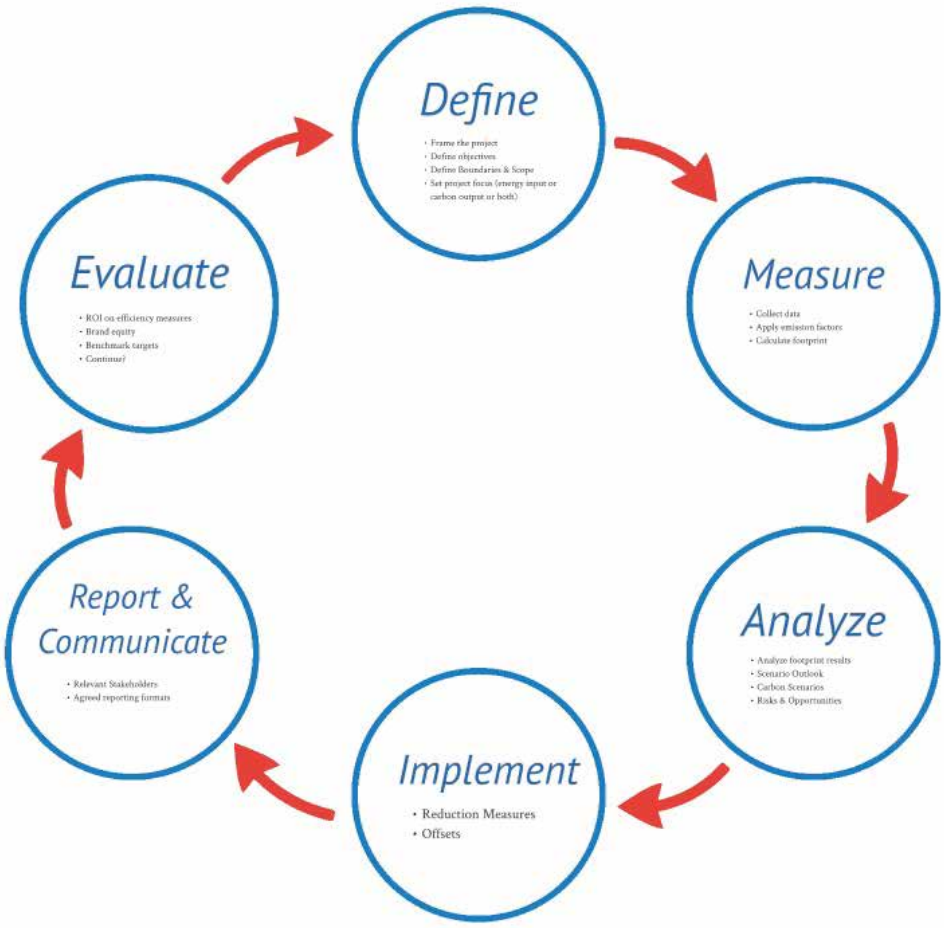
Product Carbon Footprint Assessment



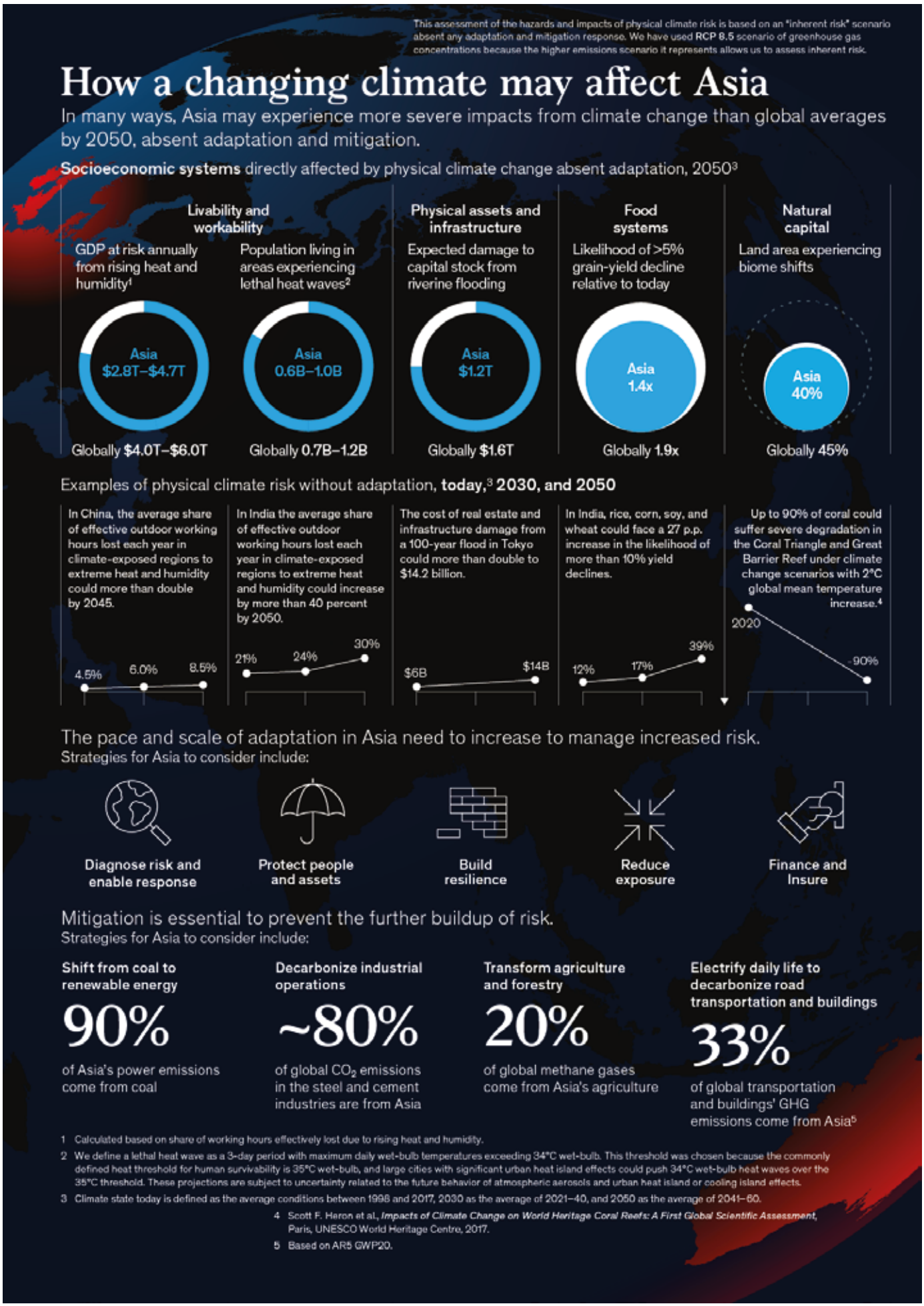
Carbon Offset Accounting Model



Organization Carbon Management Approach

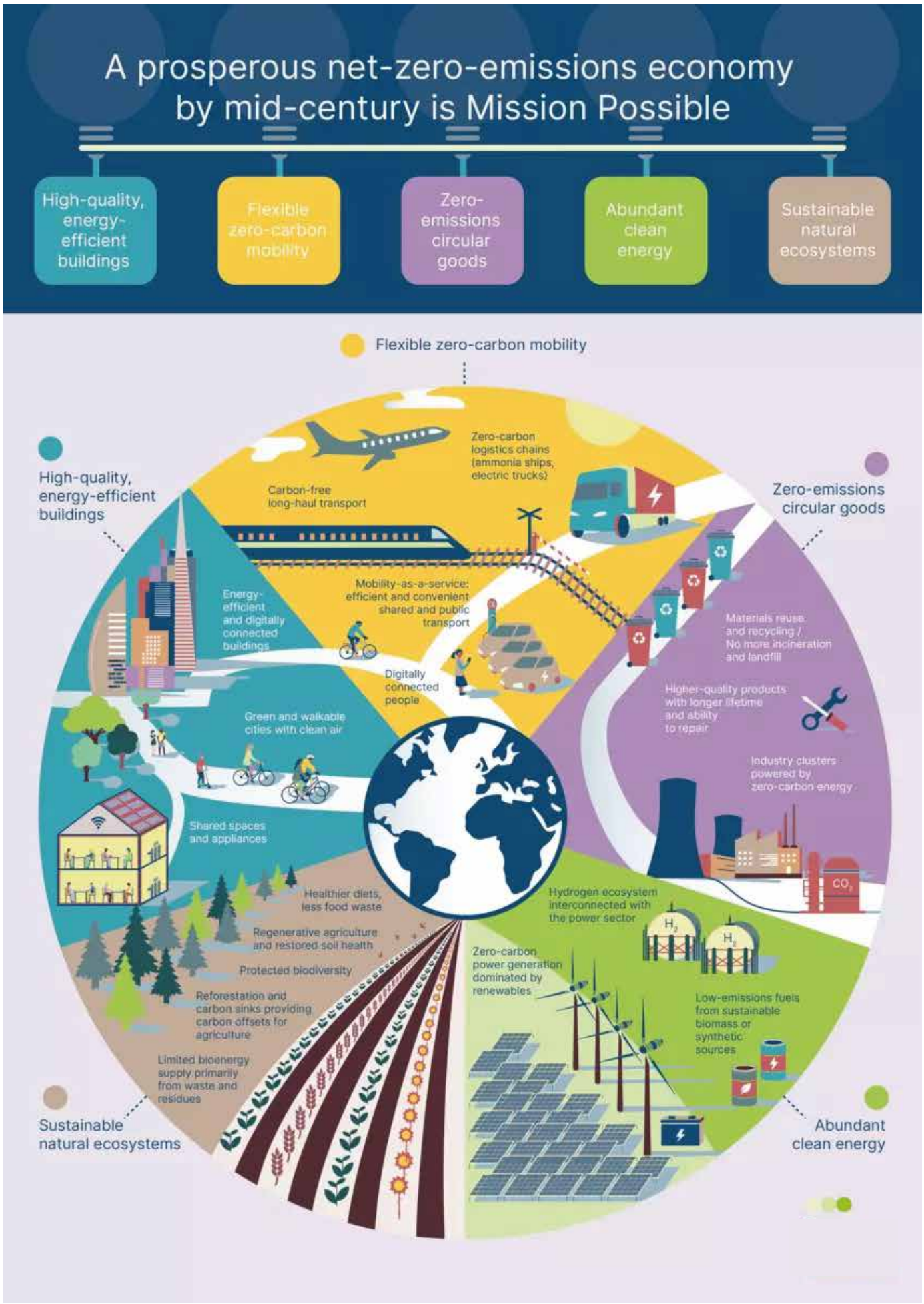


Impact of Climate Change on Asia



Source: Mckinsey Global Institute

The Net-Zero-Carbon Economic Model



Source: The World Economic Forum

PROGRAM

DAY ONE: 24 MAY 2022, TUESDAY (GMT+8)

Opening Ceremony

09:00AM **INTRODUCTORY REMARKS**
Datuk Dr. Abdul Aziz S.A. Kadir, Chairman, Confexhub Group

09:05AM **WELCOME ADDRESS**

09:10AM **OPENING ADDRESS AND LAUNCH OF NZA2022 CONFERENCE AND EXHIBITION**

Plenary Session

09:45AM **Plenary Address 1: The Glasgow Climate Pact – Climate Action for Cities and Economies**

10:15AM **Plenary Address 2: The New Net-Zero Standard for Businesses: Challenges and Opportunities for Corporates and SMEs**

10:45AM **Plenary Address 3: Pathway to a Unify Global Sustainability Disclosure Standard**

11:15AM **Plenary Address 4: Malaysia's Climate Action Strategy and Policies in Driving Green Growth and Low Carbon Cities**

11:45AM **Plenary Address 5: Malaysia's Low-Carbon Energy Srategy & Action Plans**

*This Program is subjected to change and for updated program, Program @ 6 April 2022

PROGRAM

DAY ONE: 24 MAY 2022, TUESDAY (GMT+8)

Session 1 - Carbon Offsets and the Carbon Markets – A License to Pollute or a Pathway to Net-Zero?

To meet the carbon net-zero target, there is an upshift in the global efforts since the pandemic to reduce greenhouse-gas emissions in the country, city, industry and government levels across the world. Yet emitters from developed and developing countries are facing challenges to fully eliminate their emissions, or even reduce at a pace faster than the amount they emitted. This session looks into how carbon allowances and offsets can be effectively integrated into the nation's climate change mitigation strategy and policy, and how the public and private sectors can turn green growth projects into additional assets in the balance sheet. The session will also provide the latest insights into the compliance and voluntary markets including the verified emissions reduction standards, sustainable pricing systems and liquidity schemes.

12:30PM	**Paper 1: Carbon Market's Role and Framework Distinctions Between Compliance Carbon Schemes and Voluntary Programs**
12:55PM	**Paper 2: Establishing a Liquid, Fair Price and High-Quality Carbon Credits Market**
01:20PM	**Paper 3: Voluntary Market and its Impact on Article 6 and Nationally Determined Contributions (NDCs)**
01:45PM	**Paper 4: Role of Derivatives in the Carbon Markets**
02:10PM	Open Forum: Comments, Questions and Answers
02:25PM	End of Session

Session 2 - Advancing towards Net-Zero Carbon Cities: A Next Green Growth or Carbon Washing Agenda?

Currently, more than 70% of the world population lives in urban areas, consuming over 78% of energy production and generating over 75% of global greenhouse gas emissions. Cities play a critical role in mitigating climate change to deliver resilient and equitable urban ecosystems. To limit global warming to 1.5 degrees Celsius, cities will require a rapid, widespread and systemic shift in deep decarbonization policies and strategies to reduce emissions in energy, transport, built environment and waste sectors. This session looks into the prospects and challenges of transiting from low-carbon to net-zero carbon cities. The session aims to provide recommendations on deep decarbonisation frameworks and strategies in the energy, built environment and transportation sectors.

02:45PM	**Paper 5: Pathway to Net-Zero Carbon Cities Playbook: Concept, Frameworks and Strategies**
03:10PM	**Paper 6: Valuing Urban Carbon Footprint: Method and Complexity**
03:35PM	**Paper 7: Switching to Net-Zero Carbon Electricity Systems**
04:00PM	**Paper 8: Quantifying Carbon Stocks and Sinks in Urban Parks and Landscapes**
04:25PM	Open Forum: Comments, Questions and Answers
04:35PM	End of Session and Day One

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PROGRAM

DAY TWO: 25 MAY 2022, WEDNESDAY (GMT+8)

Session 3 - Net-Zero Supply Chain – How to Unlock Lucrative Global Markets

Embracing a net-zero supply chain is a new game-changer in unlocking new market opportunities for raw materials manufacturers and suppliers and service providers. As demand for sustainable products and services increases due to the shift in consumption habits on concerns for the environment, end-product manufacturers are shifting to procure responsibly to reduce scope 3 emissions in the supply chains. Globally, eight supply chains contribute to more than 50% of annual GHG emissions. Most of these emissions are embedded through raw materials and services flowing through the global supply chains before reaching end-product manufacturers for final processing before releasing to the end-users. China, the EU and US are importing over 75% of ASEAN's global supply chain embedded carbons from the raw materials. Only a small proportion of carbon emissions are produced during the final processing. To address the environmental concerns, governments from the G7 countries are beginning to implement mandatory ESG disclosure and sustainability legislatures on end-product manufacturers since early 2022. This session looks into how companies involved in raw materials manufacturing and supplies and service providers can participate in this journey to decarbonize their operations and drive positive change on their supply-chain emissions and tap on the lucrative new economic opportunities. What are the potential risks for not EGS complaint?

09:00AM	**Paper 9: Green and Circular Policies and Incentives for a Carbon Neutrality Supply Chain**
09:25AM	**Paper 10: Tackling Embedded Supply Chain Emissions: Scope 3 Carbon Assessment and Green Procurement Strategies**
09:50AM	**Paper 11: Race to Zero Emissions Supply Chain: Abatement Projects and Embedded Carbon Offset Strategies**
10:15AM	**Paper 12: Tracking Supply-Chain Emissions through Big Data and Digital Technology**
10:40AM	Open Forum: Comments, Questions and Answers
10:50AM	End of Session

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PROGRAM

DAY TWO: 25 MAY 2022, WEDNESDAY (GMT+8)

Session 4 - ESG Disclosures and Reporting – Creates or Erodes Investor or Banker's Confidence?

With more than USD30 trillion in sustainable investment capital on the line, investing purely in ROI without concerning the environmental, social and governance aspects is over. There is a growing awareness among the Institutional and retail investors on the need for listed companies and their vendors to comply with the ESG principles in response to the global goals, sustainability regulatory requirements and ESG investing ratings. Investors want to know where their money is going and the way business is done. Investors are reinventing their investment strategies toward more sustainable finance by paying attention to ESG as an essential part of effective risk management. Lower ESG risk equals lower financial risk that leads to stable and higher long-term returns for investors. Better performance in ESG also corresponds with higher credit ratings. What can companies do to assure investors they are adopting ESG principles in their operations? Is ESG disclosure in the form or reporting sufficient? How do we know if the information reported is credible and conforms to regulatory requirements?

11:05AM	**Paper 13: ESG and the Sustainability Reporting Landscape – Understanding the Alphabet Soup**
11:30AM	**Paper 14: GRI Global Standards for ESG Reporting with Reference to the SDGs**
11:55AM	**Paper 15: TCFD's Role in the Corporate Net-Zero Strategy**
12:20PM	**Paper 16: The Strategic Value of ESG Scores and Ratings and its Impact on Investment and Financing Decisions**
12:45PM	Open Forum: Comments, Questions and Answers
12:55PM	End of Session

Session 5 - The Role of Technology in Net-Zero

As nations race to deliver their commitments to tackle climate change, an array of technologies that offer low-carbon-footprint solutions, or absorb carbon dioxide out of the air will need to scale up fast. These technologies will involve net-zero emissions air-conditioning, low-carbon steel, net-zero electricity, carbon-capture manufacturing, low carbon transport, among others. This session looks into government policies and decarbonization technologies to achieve a low-carbon and the transition to net-zero cities and industries.

01:10PM	**Paper 17: Blueprints and Policies to Support a Carbon Neutrality Industrial Revolution**
01:35PM	**Paper 18: Low Carbon Smart Grid, Storage and Optimization Technology**
02:00PM	**Paper 19: Green Hydrogen as New Energy Vector for Industries**
02:25PM	**Paper 20: Carbon Capture, Utilization and Storage in the Power and Industrial Sectors**
02:50PM	Open Forum: Comments, Questions and Answers
03:00PM	End of Session
03:15PM	**INDUSTRY LEADERS FORUM: RACE TO ZERO – BUILDING RESILIENCY AND SUSTAINABLE GROWTH**
04:45PM	End of Session
04:45PM	**GLOBAL NET-ZERO ACTION 2022 ENDS**

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Net-Zero Leaders in Action

Net-zero emissions commitments signal a long-term vision that is backed by detailed plans for action not only to reach mid-century emissions reduction goals but also to cut emissions within this decade.

Embrace sustainable practices across organisations and businesses for a healthier environment.

Lead the way through investments, innovation and strategic decisions, toward a more environmentally and economically sustainable future.

Benefits of becoming a Net-Zero Leader

- Be profiled on the Global Net-Zero Action 2022 – Net-Zero Leaders in Action webpage
- 20-second video sniper to be profiled in the Global Net-Zero Action 2022 virtual conference plenary session
- Be profiled on 'The Global Catalyst Special Edition – The Net-Zero Playbook'
- Showcase organisational net-zero action plans on the dedicated info page
- Video highlight on organisational net-zero achievement/plans on the virtual plenary hall
- Be profiled on all Global Net-Zero 2022 social media and digital marketing channels

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Sponsorship Package in a Glance

Increase your organisation's visibility with key Decision makers before, during and after the event.

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10-second Corporate Video via Live Broadcast on 'Expert Insight @ Live' Forum	✓	✓			
Booth @ Virtual Expo (Valid for 12 months)*	Premium	Premium	Premium	Sponsor	Exhibitor
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Web banner on www.confexhub.com (6 months)	✓	✓			
Logo & Recognition via Conference Social Media Platforms	✓	✓	✓	✓	✓
Business Matching Meetings	5	5	3	3	2

*Exhibition Package in A Glance

	Premium	Sponsor	Exhibitor
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- Environment-Friendly Products and SMART Technologies
- Hydrogen producers
- Ionic Liquid Solution
- Membrane-based Solution
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REGISTRATION FORM

Global Net-Zero Action

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Name (as per passport)*

Name (to be appeared on conference badge)

Email*

Passport No. | Date of Issue D D / M M / Y Y Y Y

Country of Issue | Expiry Date D D / M M / Y Y Y Y

Job Title*

Company*

Address*

City/State | Postcode

Country

Telephone* | Fax*

Mobile Number*

*(Please include country and area code)

FEE PER DELEGATE	PRICE	
Conference only	USD 450	
Conference + Workshops 1	USD 800	
Conference + Workshops 2	USD 1,100	
Conference + Workshops 1 + Workshops 2	USD 1,500	
Workshop 1	USD 400	
Workshop 2	USD 750	

* fees are subjected to additional 6% SST

Workshop 1: GHG Accounting and Reporting (26-27 May 2022) 2:00 - 5:00PM (GMT+8)

Workshop 2: ESG Reporting for ESG Leaders and Managers (27-30 June 2022) 2:00 - 6:00PM (GMT+8)

PAYMENT

Full payment is required with your Registration Form before the Conference day. Tax-Receipt will only be issued upon receipt of full payment.

All payments should be made in USD ($) by credit card, telegraphic transfer or cash only

PARTICIPATION TERMS AND CONDITIONS

Delegates may be substituted at any time, in writing, at NO extra charge.

Cancellations received in writing before 1 May 2022 will be refunded, less a 100 USD administrative fee. Cancellations received thereafter are not refundable.

Confexhub reserves the right to reschedule or cancel the conference, exhibition, cocktail reception, due to circumstances beyond their control and reserves the right to make changes to the conference program or speakers without prior notice.

Should the event and all its related activities be cancelled, curtailed or adversely affected by any cause not within the reasonable control of Confexhub including but not limited to war, fire, national emergency, labor dispute, strike, lock-out, civil disturbance, Act of God, or non-availability of premises for any reason, Confexhub shall be under no obligation to refund all or part of the sums paid by the delegate in respect of his/her participation in the workshop. Confexhub shall be under no liability to the delegate or any other person in respect of any actions, proceedings, claims, demands, losses (including consequential losses), costs or expenses whatsoever which may be brought against or suffered or incurred by the delegate as the result thereof.

PLEASE COMPLETE AND FAX BACK TO +603 2771 1669
For enquiries, please contact at +603 2771 1668 or email: conference@confexhub.com

Cambodia Indonesia Laos Malaysia Myanmar Philippines Singapore Thailand Vietnam

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