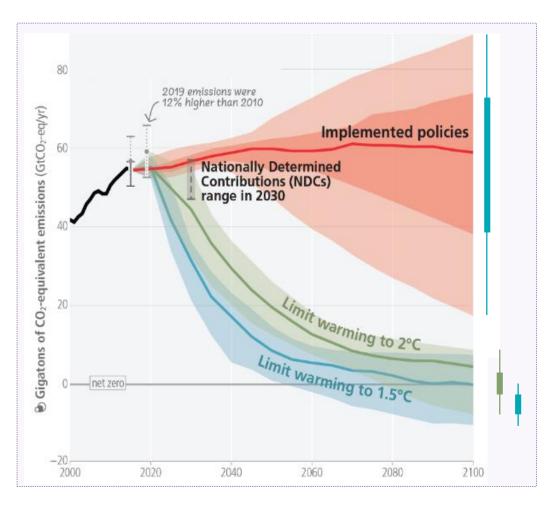


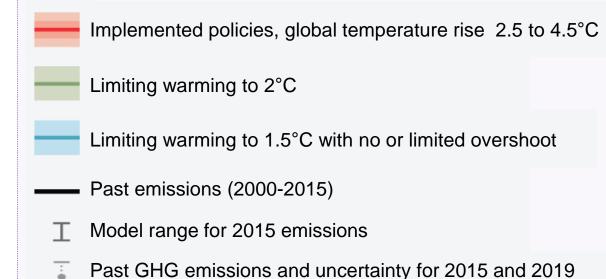
Limiting global warming to 1.5°C...







1°C Rise in global temperatures in last 2 decades. Limiting global warming to 1.5° C rise has become the need of the hour. World needs to rapidly decarbonize to mitigate climate adversities and define pathways for upcoming climate risks...



(dot indicates median)

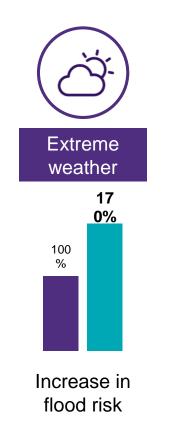
Source: IPCC AR6: https://report.ipcc.ch/ar6/wg2/IPCC AR6 WGII FullReport.pdf

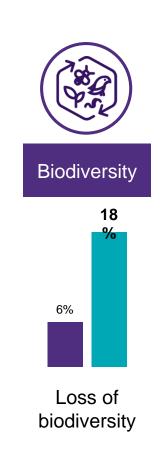
Intensifying climate risks...

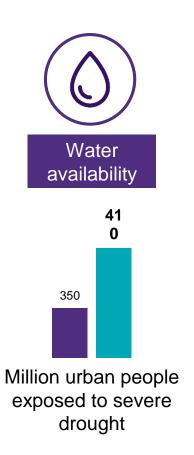


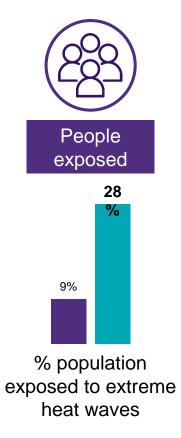


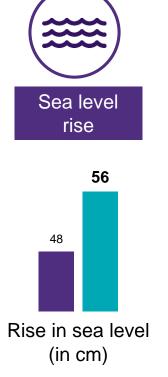
Failure to act on climate emergency will highlight Physical Risks

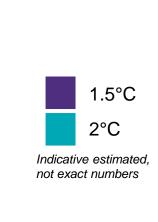










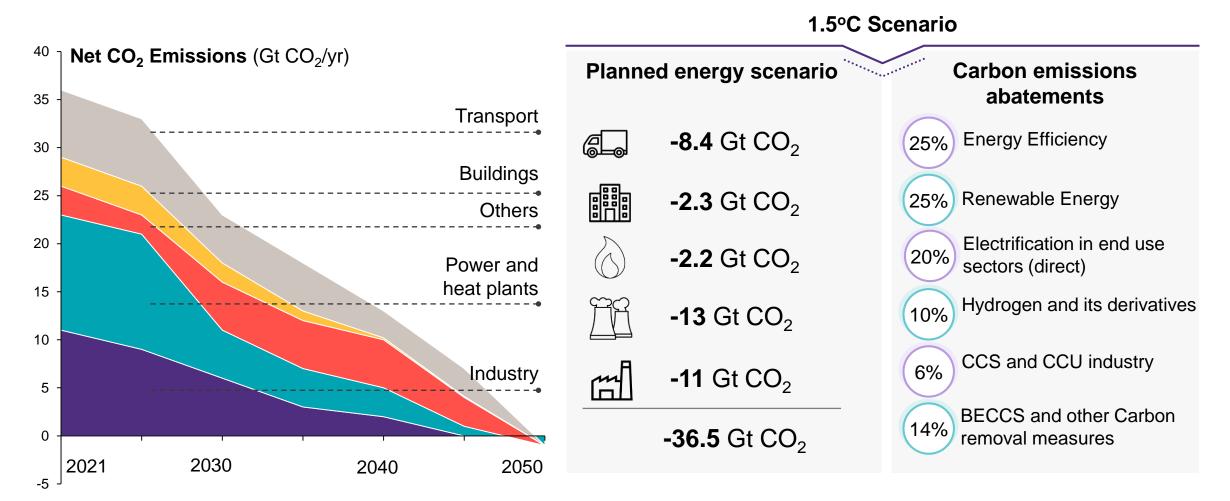


Decarbonization serves as a major lever





Global Emissions Abatement



Nature based solutions will cater for removal of residual emissions

Climate change transition risks for Industries



04



The industrial sector contains many high emitting activities that are challenging to abate.

Accelerating net-zero transition will pose significant policy and technological challenges to industrial firms.

Climate-related opportunities relate to efforts to mitigate and adapt to climate change, such as resource efficiencies and cost savings, the adoption of low-emission energy sources, the development of new products and services, access to new markets, and building resilience along the supply chain.

Policy and Legal Risk

Carbon pricing and reporting obligations

Mandates on and regulation of existing products and services

Exposure to litigation

Market and economic risk
Changing consumer behavior
Uncertainty through market signals
Increase cost of raw materials

Technology Risk
Substitution of existing

Substitution of existing products and services with lower emissions options

Unsuccessful investment in new technologies

Reputation Risk

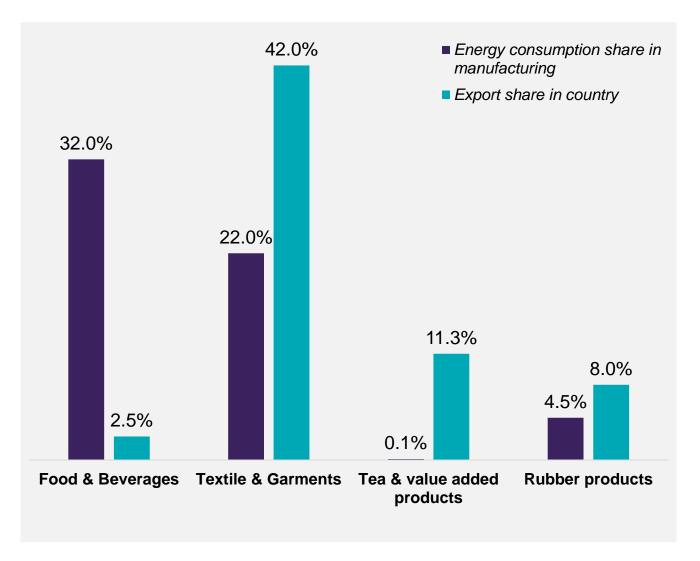
Shifts in consumer preferences

Increased stakeholder concern/negative feedback

Stigmatization of sector

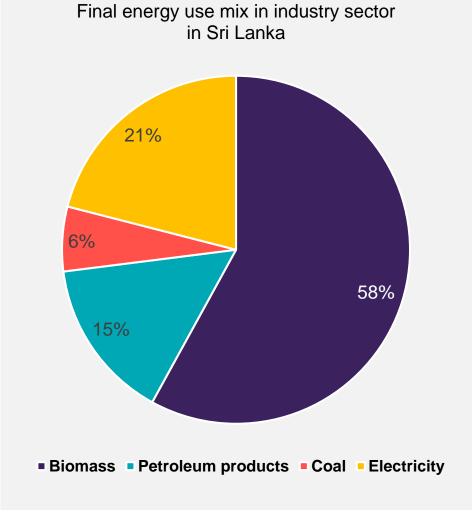
Sri Lankan Industrial Sector









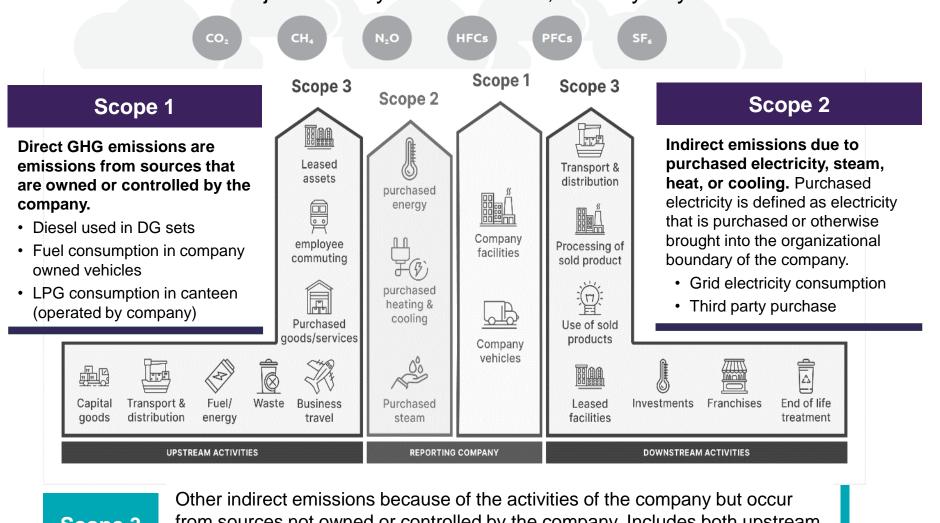


Understanding GHG emissions





GHG Emissions are not just within your boundaries, but way beyond it!



Emissions share Sco pe 3, 85 % Sco pe and Manufacturing Industry

Scope 3

from sources not owned or controlled by the company. Includes both upstream activities and downstream activities.

Levers to decarbonize & mitigate Scope 1 and 2





Following a logical approach to minimize emissions before offsetting it!

Carbon management hierarchy Decarbonization entry points Avoid Process Avoid carbon intensive improvement activities, rethink process Demand-side resource Minimize emissions through energy **Minimize** management and efficiency and resource efficiency measures Fuel & resource switch and High carbon intensive source to low carbon Replace Supply-side renewable energy intensive source Make equivalent emissions elsewhere through Carbon Capture and Storage/Use through technology solutions or Nature-based solutions sequestration activities Net Zero

Levers to decarbonize & mitigate Scope 3





Scope 3 emission reduction in manufacturing requires a comprehensive approach



Let's take an example of Textile sector





Process flow and specific GHG emissions of the textile sector











Raw Material Extraction
Cultivation and extraction of
raw materials from
the earth, plants,
or animals

Raw Material Processing
Processing of raw materials
into yarn and other
intermediate products.

Material Production
Production and finishing of
materials (e.g.
fabric, trims) that go directly
into finished product.

Finished Production
Assembly
Assembly and
manufacturing of final
products.

Office, Retail, distribution centre

Corporate real estate not involved in production process.

GHG emission share



Extraction /



Yarn

Manufacturing





Wet

processing











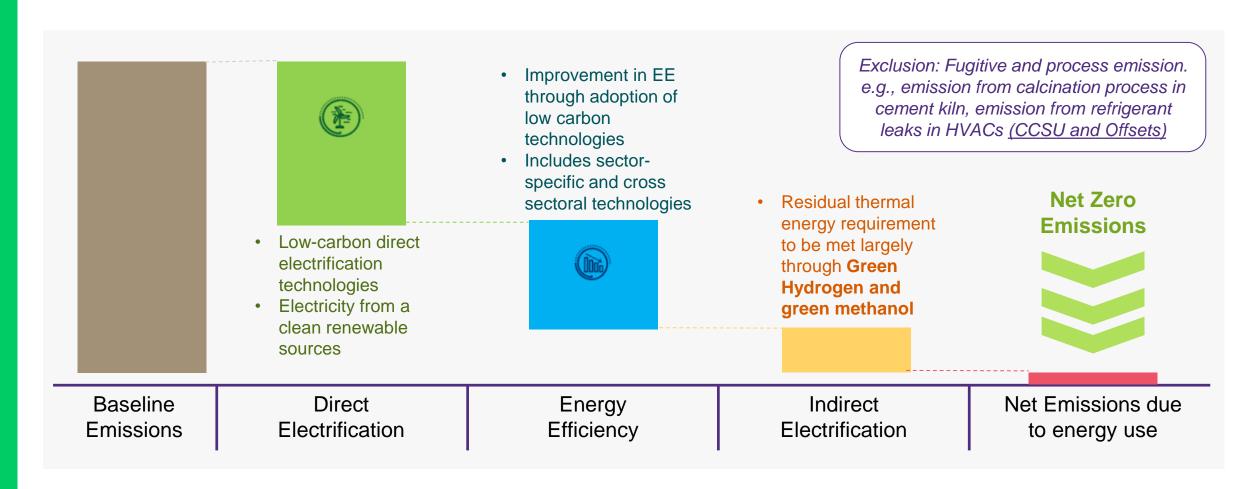


Pathways towards Net Zero: Sri Lankan Industrial Sector





Sri Lankan Industries can achieve **Net Zero** through '**Direct Electrification**', '**Energy Efficiency**' as result of electrification and adoption of '**Renewable Energy**' and the conversion of thermal energy through '**Indirect Electrification**' route.



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