

# DOES YOUR BUSINESS HAVE A CARBON OFFSET STRATEGY?

Unavoidable emissions don't imply your firm can't be carbon neutral.



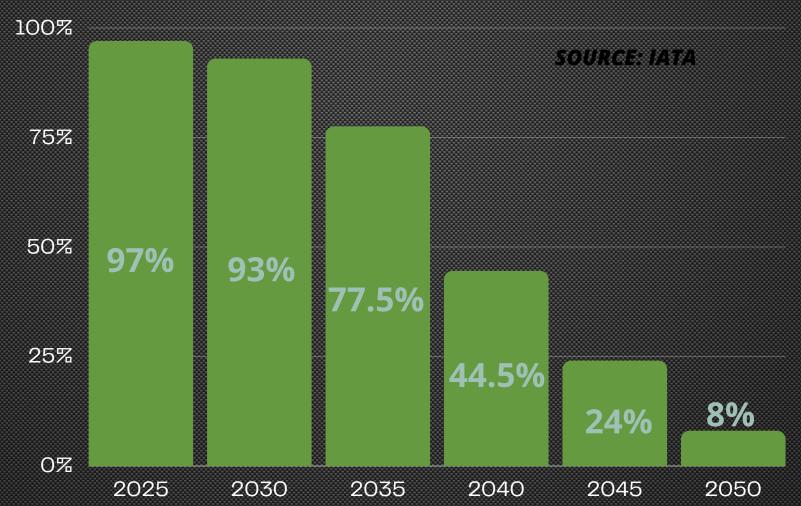
By purchasing a carbon offset, you finance exceptional projects that mitigate GHG emissions!



#### DO YOU KNOW?

# AIR TRANSPORT INDUSTRY WILL BE RELYING MAJORLY ON CARBON OFFSETS FOR THEIR CO2 EMISSIONS

Estimated percentage reliance on offsets for industry CO2 reduction





# 80% OF A COMPANY'S CARBON EMISSIONS ARE COMPRISED OF CO2.



AND MOST OF THESE EMISSIONS FALL WITHIN THE PURVIEW OF SCOPE 3.



# CORPORATE'S CARBON FOOTPRINT IS MEASURED ACROSS THREE SCOPES

Sample from an Electronics Manufacturing company

#### SCOPE 2

Indirect emissions as a result of business activity

Purchased Electricity and heat/cooling 11.3%





#### SCOPE 1

Direct emissions from Business activity

Manufacturing **4.4%** 





#### SCOPE 3

Indirect emissions in the Company's value chain – upstream and downstream, employee travel etc

Suppliers 8.2%





Transportation 21.2%



Employees
Business
Travel
0.3%



Consumer Use **54.5%** 







# WHAT IS PROMPTING COMPANIES TO BUY OFFSETS IN THE CARBON MARKET?

To align emission targets with Paris Agreement goals.

Pressure from shareholders to reduce emissions.

Restricted by a lack of cost-effective, scalable technologies.

5 Low-carbon product branding and labelling

3 May not have the resources to reduce all emissions today.

Lowering trade
barriers with partners
in other countries



#### **HOW DOES CARBON OFFSETTING WORK?**

The term "carbon offsetting" refers to the practise of compensating for emissions by providing funding for greenhouse gas reduction projects.



The advantages of these programmes may be quantified in terms of the amount of carbon dioxide equivalent (CO2e) they prevent from entering the atmosphere or remove from the system.



# COMMON TYPES OF CARBON OFFSET PROGRAMS

#### **AVOIDANCE/REDUCTION**

(Prevent or reduce carbon emissions from current sources to atmosphere)

#### AVOIDED NATURE LOSS

Limits the loss of nature such as forests and peatlands that store and sequester carbon

#### TECHNOLOGY-BASED AVOIDANCE/REDUCTION

Programs that do not have the financial incentive or regulatory requirement to decarbonize like clean cookstoves, capturing methane, and transition to renewable energy

#### REMOVAL/SEQUESTRATION

(Remove and use/store CO2 from the atmosphere)

#### NATURE-BASED SEQUESTRATION

Uses nature to sequester more carbon in the biosphere, including reforestation and restoring soil, mangroves, and peatlands.

#### TECHNOLOGY-BASED REMOVAL

Removes and uses/stores CO2 from the atmosphere with the help of modern technology that uses or stores it in the geosphere or through other secure methods such as in concrete.



#### TECHNOLOGY BASED AVOIDANCE/ REDUCTION EXAMPLE

Energy Efficient cookstoves enabling transition to clean cooking

CoreCarbonX is helping 300,000 households in Odisha, India, transition to clean cooking with the help of improved and highly efficient cookstoves. Currently, these households rely on inefficient cookstoves and solid fuels.



This project will benefit society greatly by lowering firewood consumption, improving health, lowering indoor air pollution, and generating carbon credits.





## NATURE BASED SEQUESTRATION PROJECT EXAMPLE

Mangroves conservation at Ennore Creek



CoreCarbonX project on conservation and development of Mangrove at Ennore creek helped to increase the resilience to climate change and improve livelihoods through adaptive comanagement of mangroves and associated ecosystems.



# TECHNOLOGY BASED REDUCTION EXAMPLE

Assessment for transitioning to renewable energy in Kabul

The rooftop solar energy potential in Kabul has been assessed by CoreCarbonX. Potential carbon income from solar rooftop systems in Afghanistan has been analysed. There are 300 sunny days each year, which along with the plentiful free solar irradiation to create solar electricity, makes the country a desirable location for photovoltaic solar power projects.





#### NATURE BASED REMOVAL EXAMPLE

Enabling farmers in Nalgonda to adopt Sustainable Rice Production(SRP)

Adjusted water management practices in paddy contribute immensely to water and energy conservation and reduce methane emissions. CoreCarbonX is working together with Nalgonda District farmers in changing the paddy landscape by bringing sustainable rice production(SRP) into the marketplace. This SRP program is also helping farmers generate carbon revenue as additional income.





#### EXACTLY WHAT CONSTITUTE A HIGH-QUALITY CARBON OFFSET?

#### CO-BENEFITS

Any positive impacts, other than direct GHG emissions removal/avoidance.

#### **ADDITIONALITY**

For projects continuity carbon credit revenue is critical.

#### **PERMANENCE**

Reversal of carbon reduction or removal not possible.



#### **VERIFICATION**

Monitored, reported, and verified by a reliable third-party.

#### **MEASURIBILITY**

Derived using scientific data, realistic baselines and accepted methods.

No net increase in emissions elsewhere and any that do occur must be explained.

**AVOID LEAKAGE** 



## CO-BENEFITS INCLUDE ESG AND SOCIAL BENEFITS OR TECH CATALYST BENEFITS

Existing, credible ESG and social benefits(environmental, community, gender equality, etc) certifications can be tagged in this attribute

GoldStandard considers Biodiversity, Balance of Payments, Employment, Livelihood and Health Impacts as additional benefits and allows for up to 6 SDGs to be certified

VERRA tags its credits with a CCB standard based on benefits to Climate, Community and Biodiversity

Independent standards like the W+ Standard for women's empowerment have unique certification labels for cobenefits

Credits that boost innovation in climate technology



# WHAT STEPS A CORPORATE CAN TAKE TOWARDS NET ZERO?

CALCULATE Scope 1, 2 and 3 Emissions



Set annual Net Zero TARGETS, disclose commitments along with detailed transition plans

COMPLY with GHG Emission regulations & accounting standards







REDUCE GHG
emission in
business
operations and
value chains in
line with science

REPORT GHG emissions and Mitigation programs OFFSET unabated emissions through the purchase and retirement of carbon credits generated under credible third-party standards.



# Be a Net-Zero Hero

We help corporates in their carbon offset goals and lowering their carbon footprint. Join our programs and become a Net-Zero Hero!

CoreCarbonX is into Sustainability Consulting, Carbon Trading and Environmental Advisory Services.