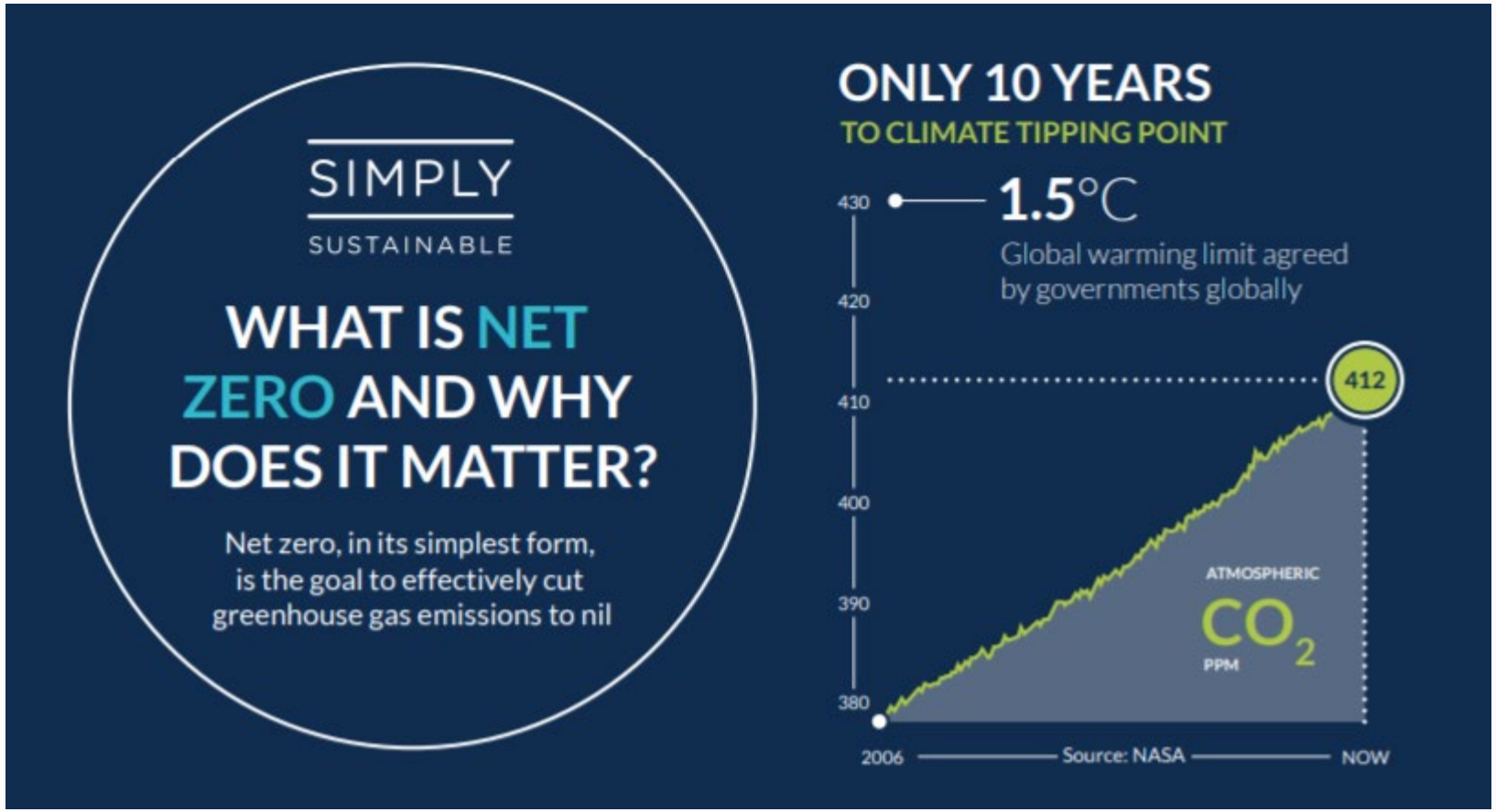
BSI Webinar

ขั้นตอนการขับเคลื่อนองค์กร สู่ Net Zero ให้ประสบความสำเร็จ

(Steps to Drive the Organization Towards Net Zero Success)

BSI Thailand

Why Net Zero is Important?



The key reasons why achieving Net Zero is crucial:

- Combatting Climate Change
- Health Benefits
- Economic Advantages
- Social Equity and Justice
- Intergenerational Responsibility
- Resilience and Adaptation

Net Zero Status:

GLOBAL NET ZERO COVERAGE

Country-level coverage only. We do not include sub-national net zero targets in countries without a target.

NET ZERO NUMBERS

Countries
148

Regions
162

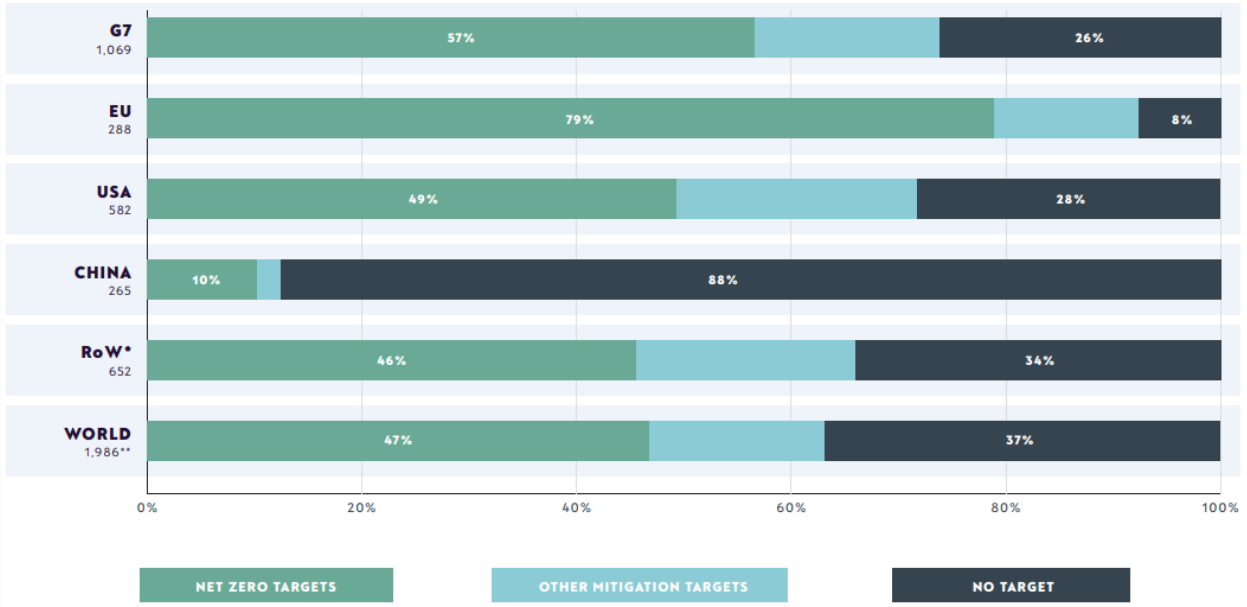
Cities
273

Companies
1,151

Out of 198 countries, 709 regions, 1,186 cities and 1,978 companies.

COMPANIES: END MITIGATION TARGETS

Covering the world's largest 2,000 companies by annual revenue. Percentages by number.



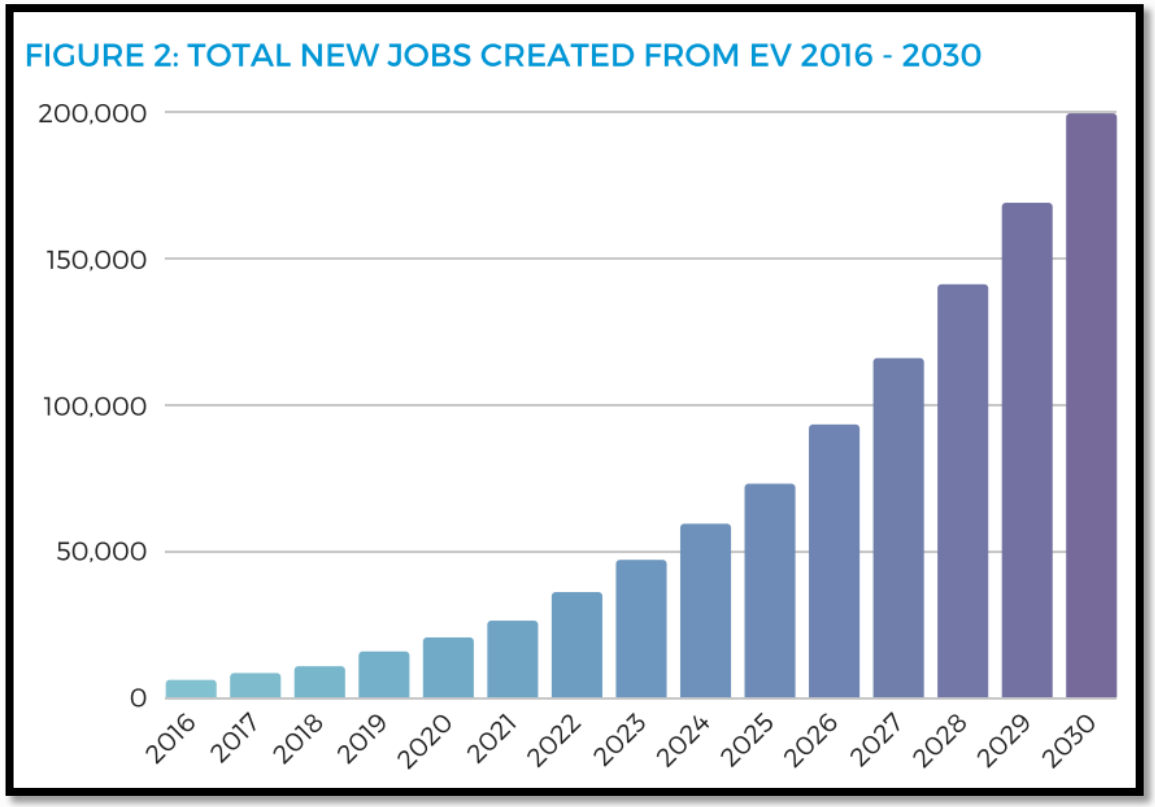
Source: https://netzeroclimate.org/innovation-for-net-zero/progress-tracking/

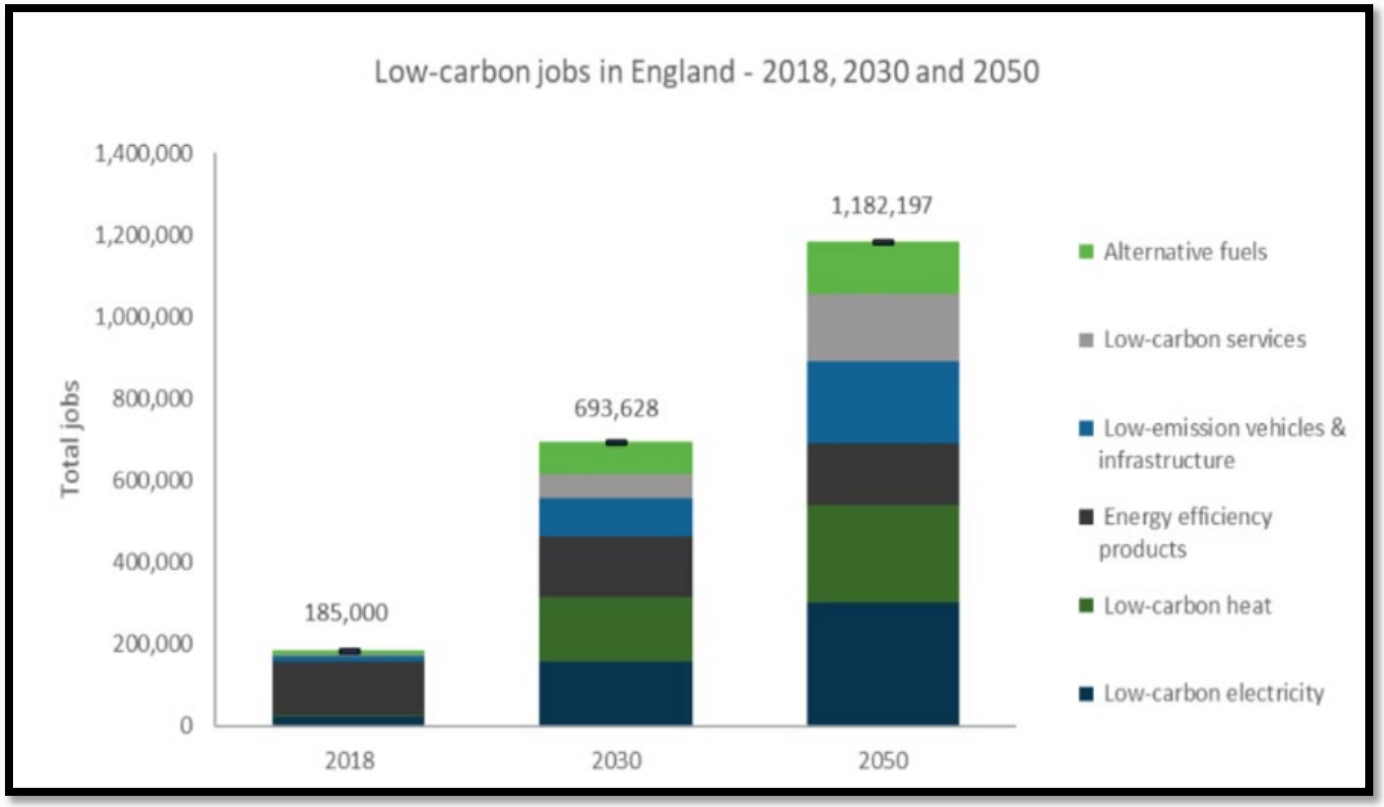
Net Zero Status:

Convergence on guiding principles	Specific criteria for operationalising	UN Expert Group (2022)	ISO Net Zero Guidelines (2022)	Race to Zero (v3, 2022)	SBTi Net Zero Standard (2023)	Corporate Climate Responsibility Monitor (2023)	Summary across 33 initiatives (2022)
HIGH	HIGH	**All scopes** 'Scope 1, 2 and 3 emissions for businesses'	**All scopes** 'Scope 1, 2 and all "relevant" s3 emissions'	**All scopes** 'Scope 1, 2 and 3 emissions for businesses'	**Over 90% across all scopes** 95% of scope 1 and 2; 90% of scope 3 for long-term targets	**All scopes** Scope 1, 2 and 3 emissions and non- GHG climate forcer)	Over three quarters of surveyed initiatives recommend inclusion of all scopes, as per GHG Protocol Guidance

Net Zero job impacts

การเปลี่ยนแปลงไปสู่ Net Zero สามารถสร้างงานได้ประมาณ 200 ล้านตำแหน่ง และแทนที่ตำแหน่งงานประมาณ 185 ล้านตำแหน่ง ซึ่งอาจส่งผลให้มีการจ้างงานเพิ่มขึ้นประมาณ 15 ล้านตำแหน่งภายในปี 2050





Source: https://eciu.net/analysis/briefings/net-zero/net-zero-economy-and-jobs

Carbon Jobs

CA Canada
- (via Iopa Solutions): Sales Director (Carbon Removal Solutions)
- Lafarge Canada: Engineering Manager - Carbon Capture
CN China
- RINA: Carbon Business Support Advisor
DK Denmark
- UNOPS: Carbon Market Programme Officer
FR France
- (via STATION F) Carbon Analyst - Climate Engineer at Greenly
- (via STATION F) Climate Engineer - Carbon Project Manager at Greenly

DE Germany
- Perspectives Climate Group: Technical Consultant - Carbon Market Mechanism
IE Ireland
- Trinity College Dublin: Postdoctoral Researcher in Economics of Carbon and Biodiversity

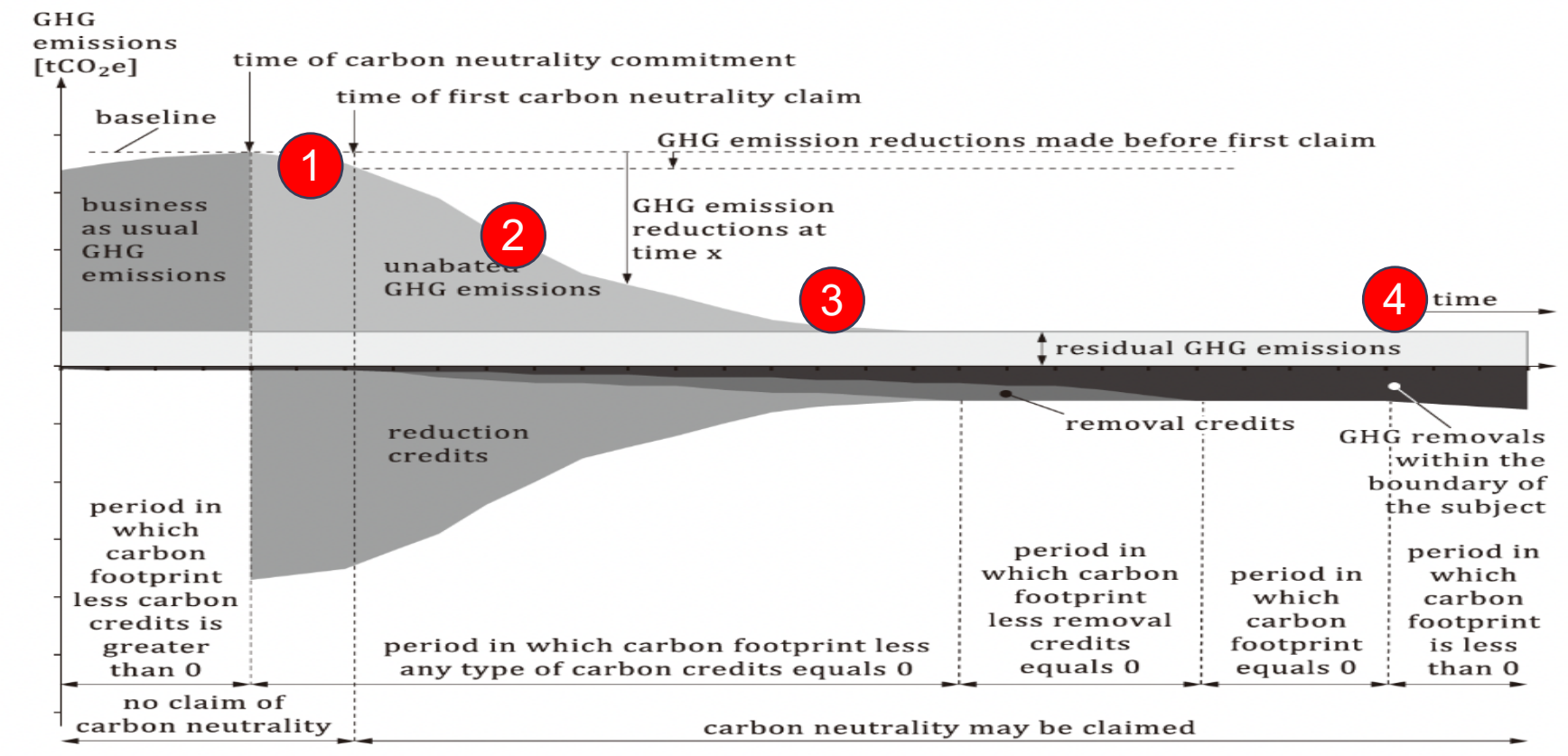
Markets
IT Italy
- Eni: Expert Supervisore di Produzione Carbon Capture Storage
PL Poland
- ISS A/S: Carbon Management Data Analyst
PH Philippines
- Rare: Blue Carbon Policy, Philippines Consultant
SG Singapore
- GenZero: Associate/Senior Associate - Investment Group (Carbon Ecosystem Enablers)
- Shell: Market Risk Analyst - Carbon
GB United Kingdom
Department for Energy Security and Net Zero: Senior Policy Advisor - Hydrogen and Industrial Carbon Capture
- Farm Carbon Toolkit: Data Assistant
- The White Company: Carbon Manager

Jobs in Carbon: Posts | LinkedIn

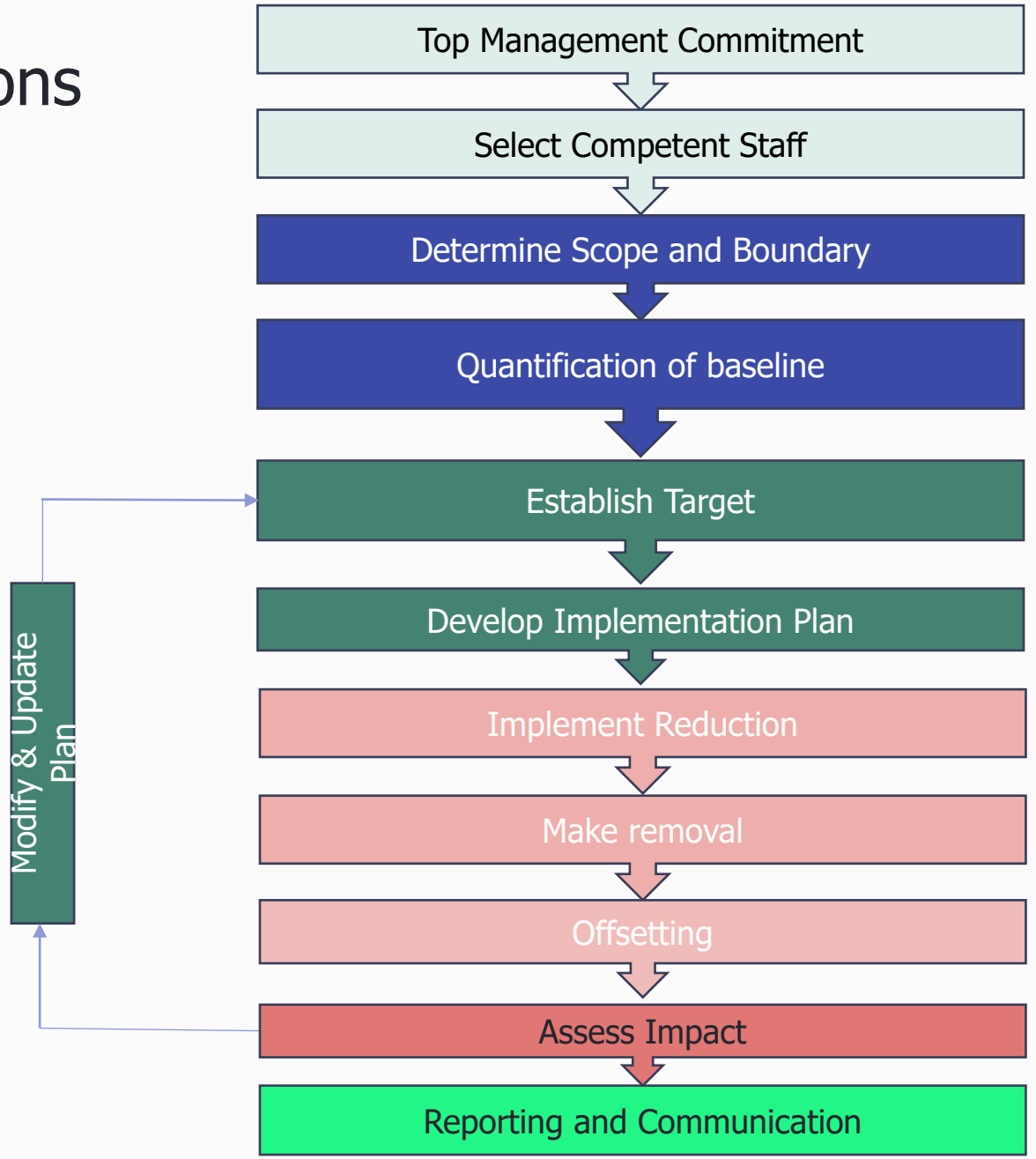
Quiz 1

ท่านคิดว่าจุดใดในภาพเป็นสถานะที่ใกล้เคียง Net Zero มากที่สุด

ก. 1
ข. 2
ค. 3
ง. 4



Key Steps for Organizations to Achieve NetZero



Assessment and Goal Setting:

Conducting a comprehensive assessment of your organization's current carbon emissions

Direct emissions (Scope 1)

Indirect emissions from energy consumption (Scope 2)

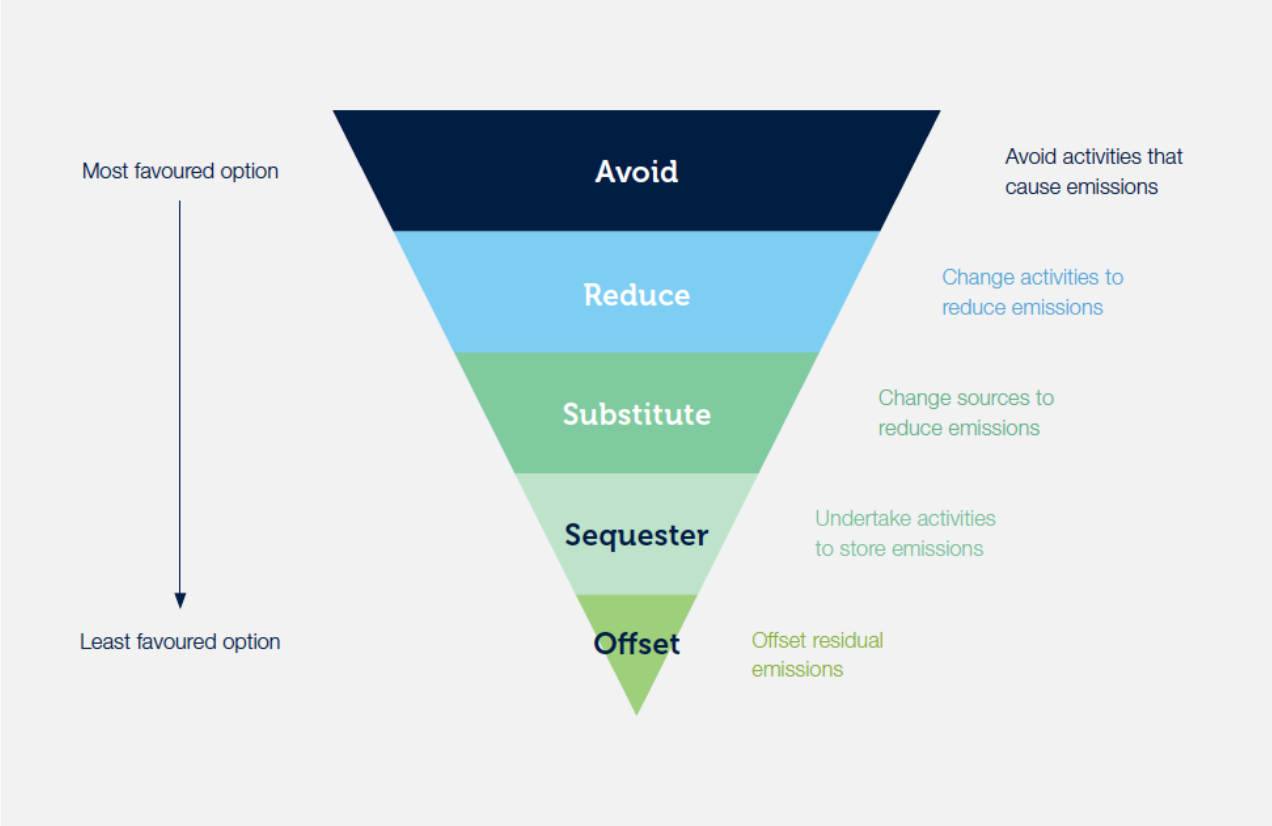
Indirect emission from Supply chain and other activities (Scope 3)

Sources: https://www.nationalgeographic.com/environment/article/greenhouse-gases

Set ambitious (Net Zero)

- Emission Reduction
- Timelines

Emissions Reduction Strategies:



Adopting sustainable practices in procurement and supply chain management

Optimizing transportation and logistics

Energy efficiency measures

Transitioning to renewable energy sources

Carbon capture utilization system

Carbon Credit

Source: RMIT University Carbon Management Plan in [Carbon management: a step by step guide - Paia Consulting]

GHG Mitigation Measures:

Scope 1&2

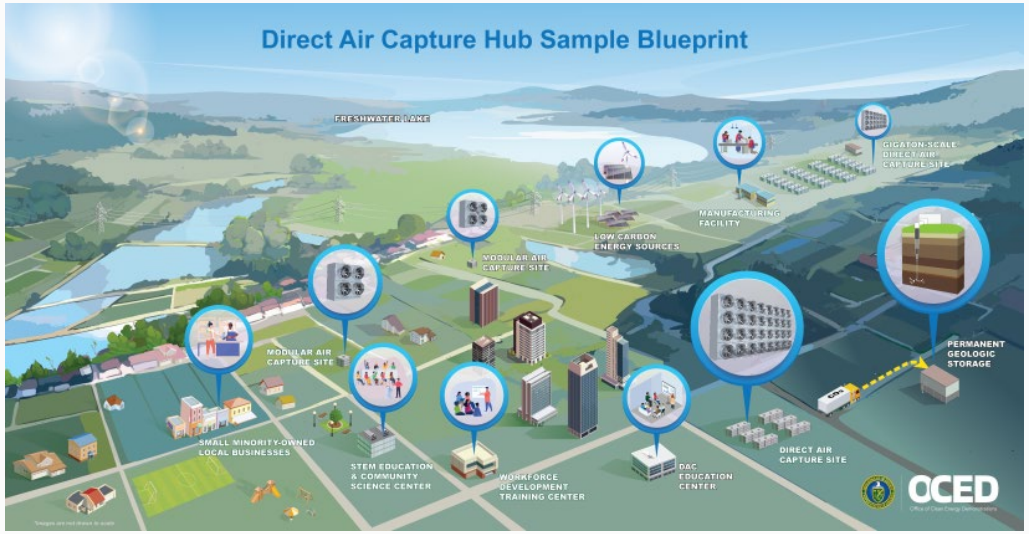
- Energy efficiency measures
- Energy management
- Behavioral changes
- Installation of onsite renewable energy
- Fuel switching
- Energy demand management
- Using hydrogen from renewable sources (Green Hydrogen)
- Actions to reduce leakage of other GHGs to the atmosphere

Scope 3

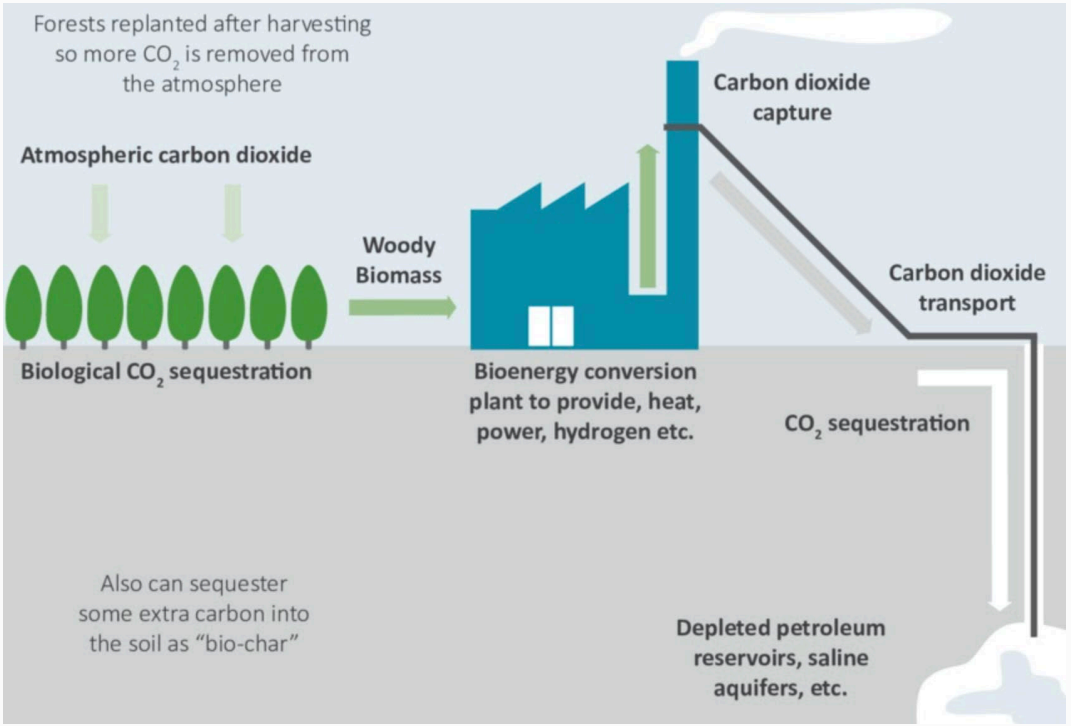
- Sourcing components from a local supplier, rather than one abroad
- Sourcing components from a supplier that uses electricity primarily from renewable sources, rather than fossil fuels
- Replacing product packaging with materials that are readily recyclable
- Improving the design of a product so that it uses less energy in its use phase.

Opportunities for GHG removals:

- Biomass energy with carbon capture and storage
- Direct air capture
- Tree planting
- Land use changes, with the primary aim of increasing the GHG sink.



Source: https://www.energy.gov/oced/DACHubs

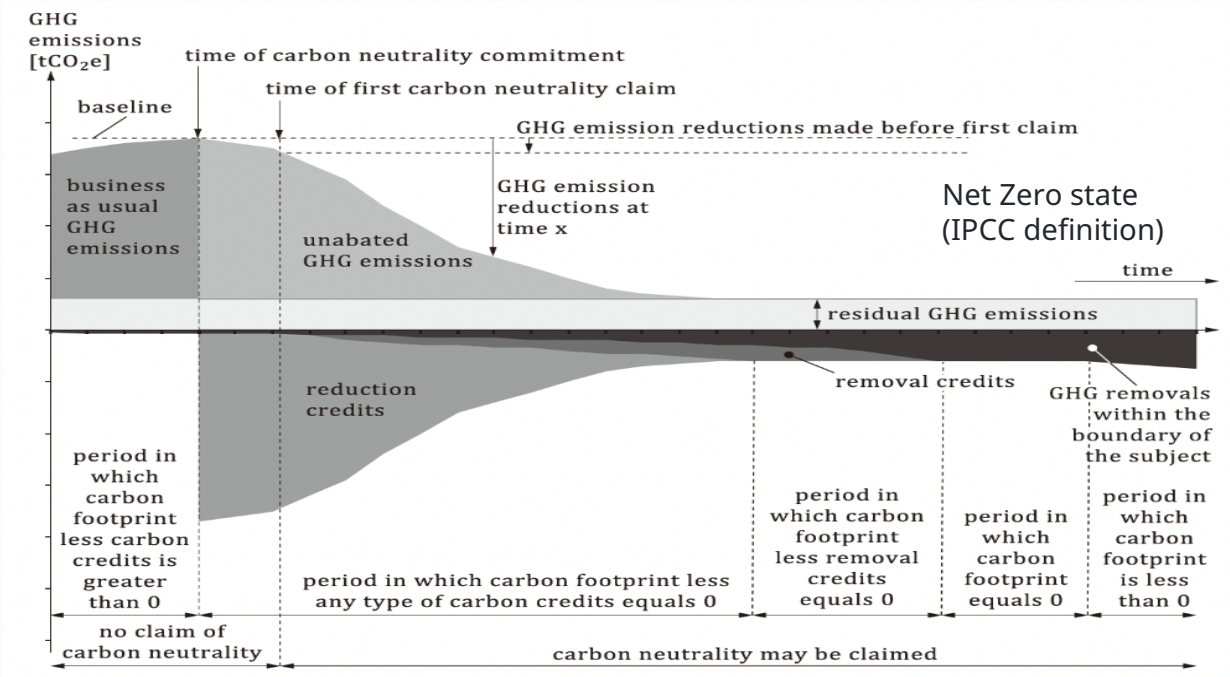


Source: https://psci.princeton.edu/tips/2020/11/15/preventing-climate-change-with-beccs-bioenergy-with-carbon-capture-and-storage

Carbon Offsetting:

Carbon offsetting can play a crucial role as a catalyst in achieving NetZero.

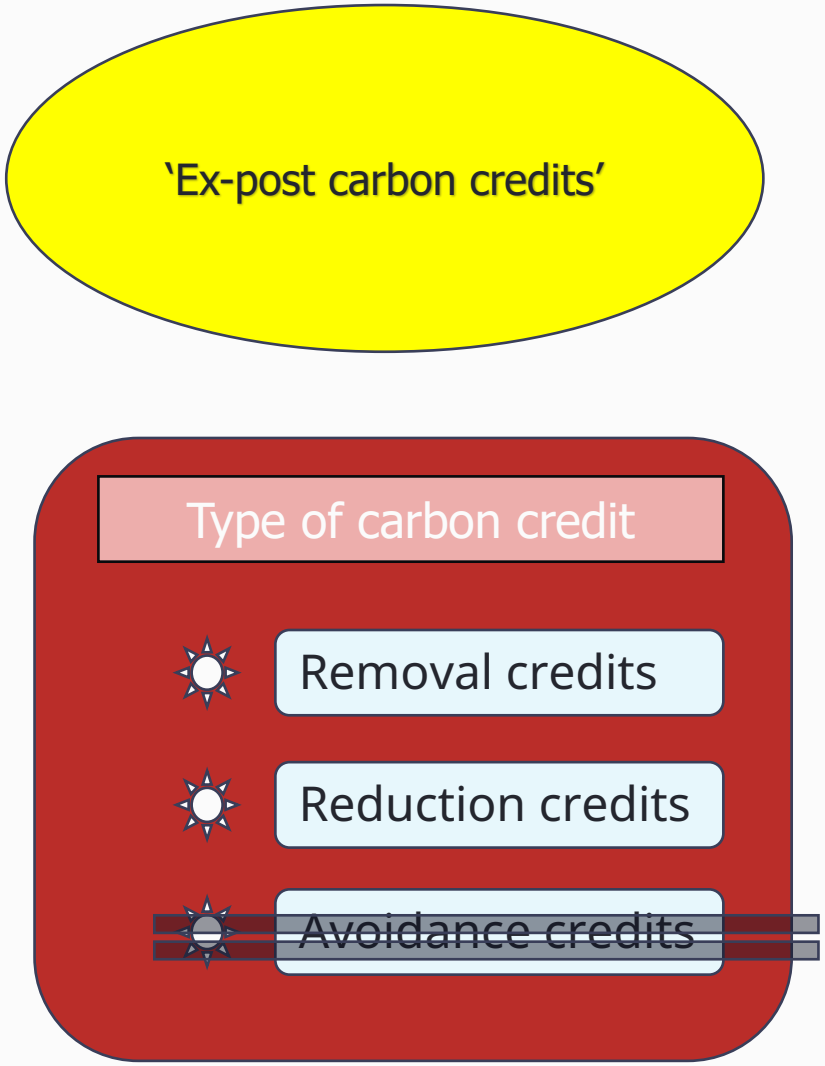
Encouraging to invest in high-quality carbon offset projects



Innovation

Reduce more

Carbon credit & offsetting



- Only carbon credits that represent GHG emission reduction or GHG removals that have already occurred.

- The entity shall only source carbon credits generated from GHG emission reductions or GHG removal enhancements that are:

- real GHG emission reductions or
- real GHG removal enhancements

A minimum the carbon crediting program adheres to the core carbon principles of the Integrity Council for the Voluntary Carbon Market (ICVCM).

It is not allowed for ISO14068-1

VERRA

Gold Standard

ACR AT WINROCK INTERNATIONAL

bsi

Quiz 2

คาร์บอนเครดิตจากโครงการใดต่อไปนี้ไม่สามารถนำมา Offset กับ ISO14068-1 ได้

โครงการผลิตไฟฟ้าจากพลังงานน้ำ

โครงการปกป้องป่าดงดิบลุ่มน้ำอะแมซอนจากการทำเกษตรกรรม

โครงการผลิตก๊าซชีวภาพเพื่อเป็นเชื้อเพลิงทดแทนก๊าซหุงต้ม

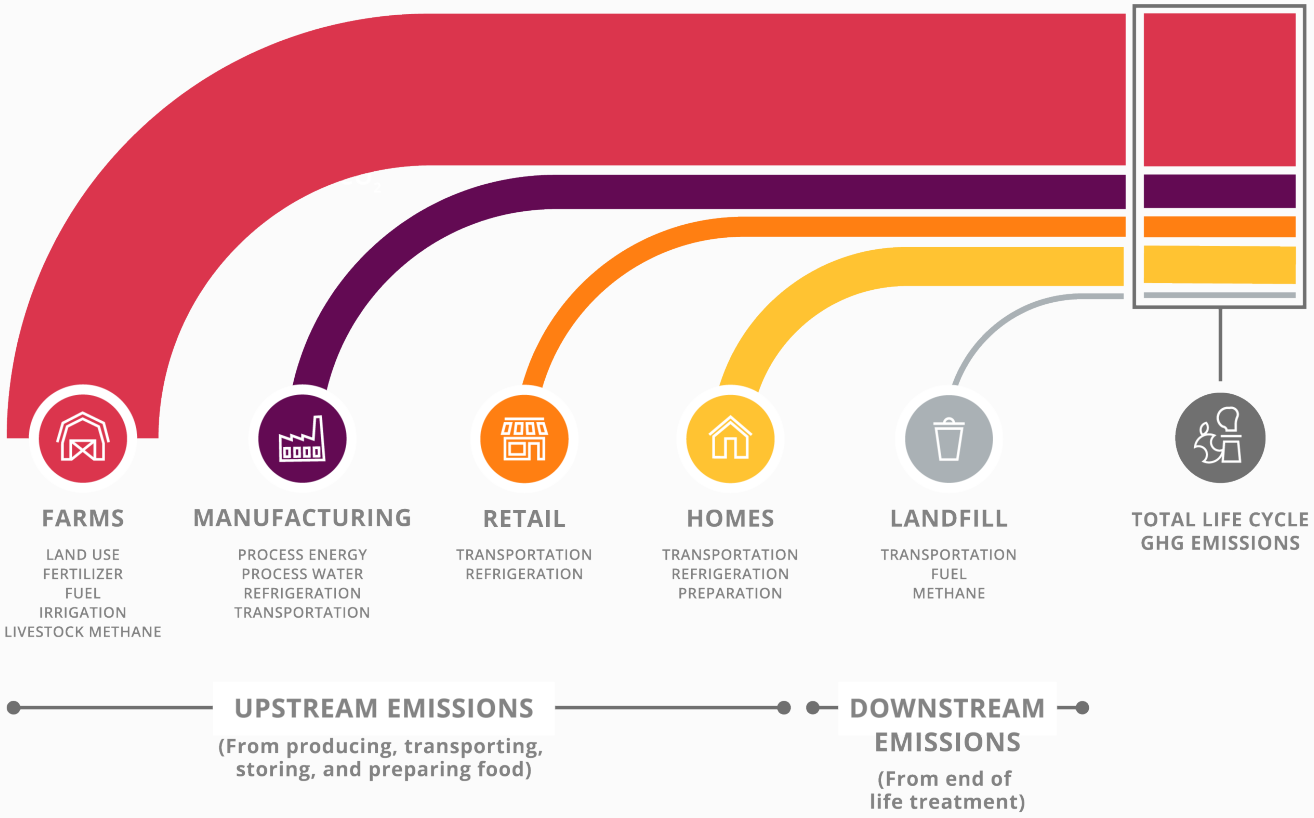
โครงการกำจัดก๊าซ CO2 ในชั้นบรรยากาศด้วยระบบ Carbon Capture Utilization System (CCUS)

Engagement and Collaboration:

Engage employees, stakeholders, and supply chain partners in your Net Zero journey by raising awareness about the importance of reducing carbon emissions and soliciting their input and support.

Collaboration & Sharing

- Collaborate with industry peers, government agencies, and environmental organizations
- Share best practices, advocate for supportive policies, and drive collective action towards a low-carbon future.



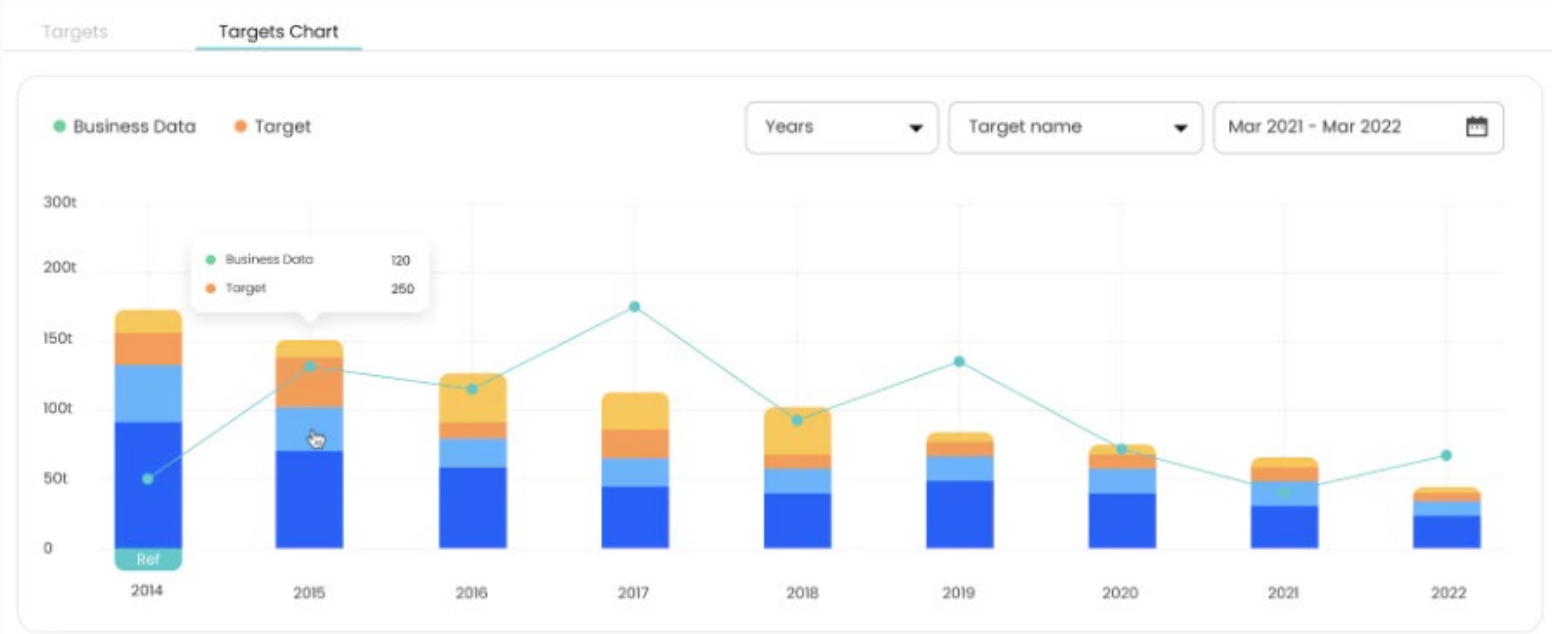
Source: https://refed.org/food-waste/climate-and-resources/

Monitoring and Reporting:

Establish robust monitoring and reporting mechanisms to track progress towards NetZero goals

The effectiveness of emissions reduction measures

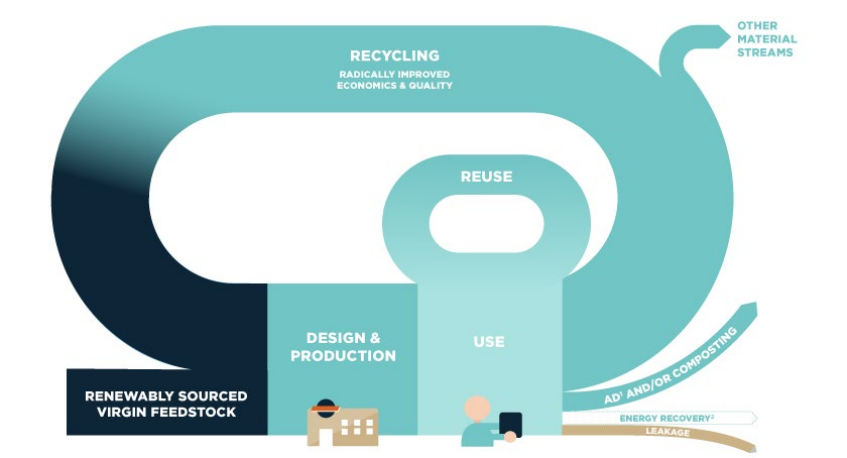
Transparently communicate your organization's performance to stakeholders.



Source: https://net0.com/blog/ghg-reporting

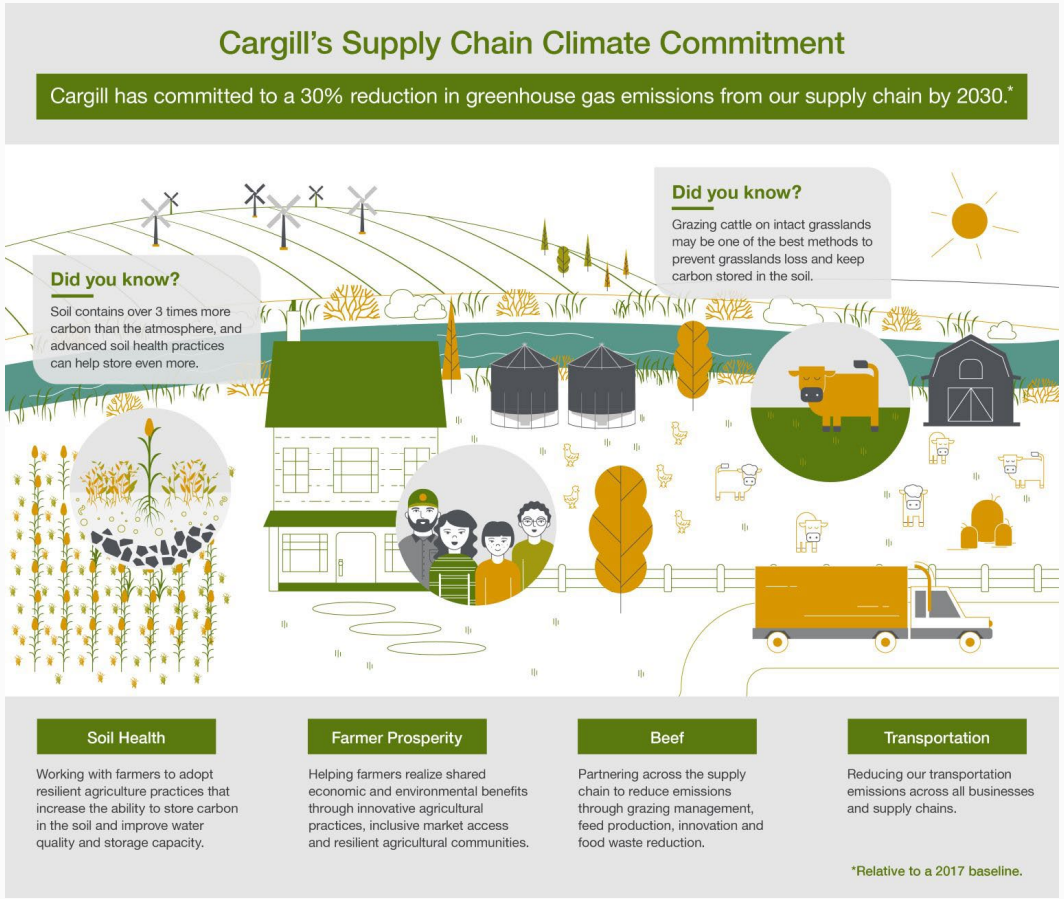
Impact on business model and activities:

a) Phasing out high emitting activities



b) Introduction of new low-carbon products (goods or services)

c) Changes in the value chain



Source: https://www.foodbusinessnews.net/articles/14989-cargill-aims-to-cut-supply-chain-emissions-by-30

Quiz 3

การลดก๊าซเรือนกระจก Scope ใด ยากที่สุด

Scope I

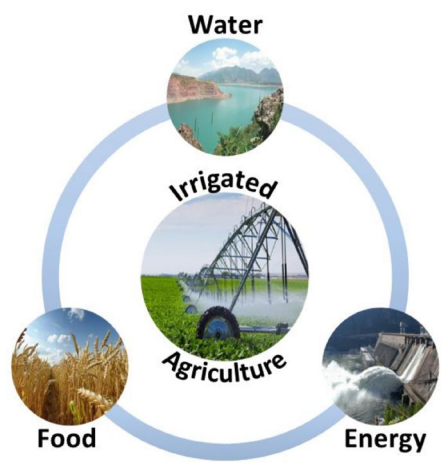
Scope II

Scope III

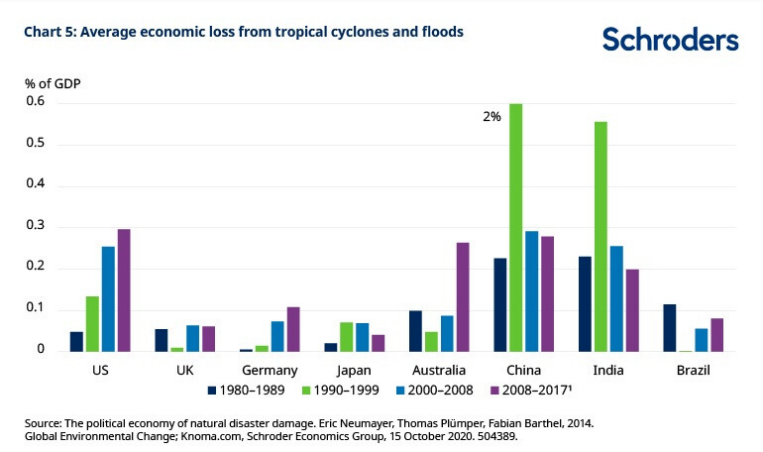
ไม่มีข้อใดถูก ขึ้นอยู่กับบริบทขององค์กร

Adaptation:

Adaptation impacts include changes that affect goods or services offered by the organization, or purchased from its suppliers (value chain) due to:



Availability of inputs



Short-term/long-term weather effects

Changes to sea levels

Financing the net zero transition:

How the organization will finance actions identified

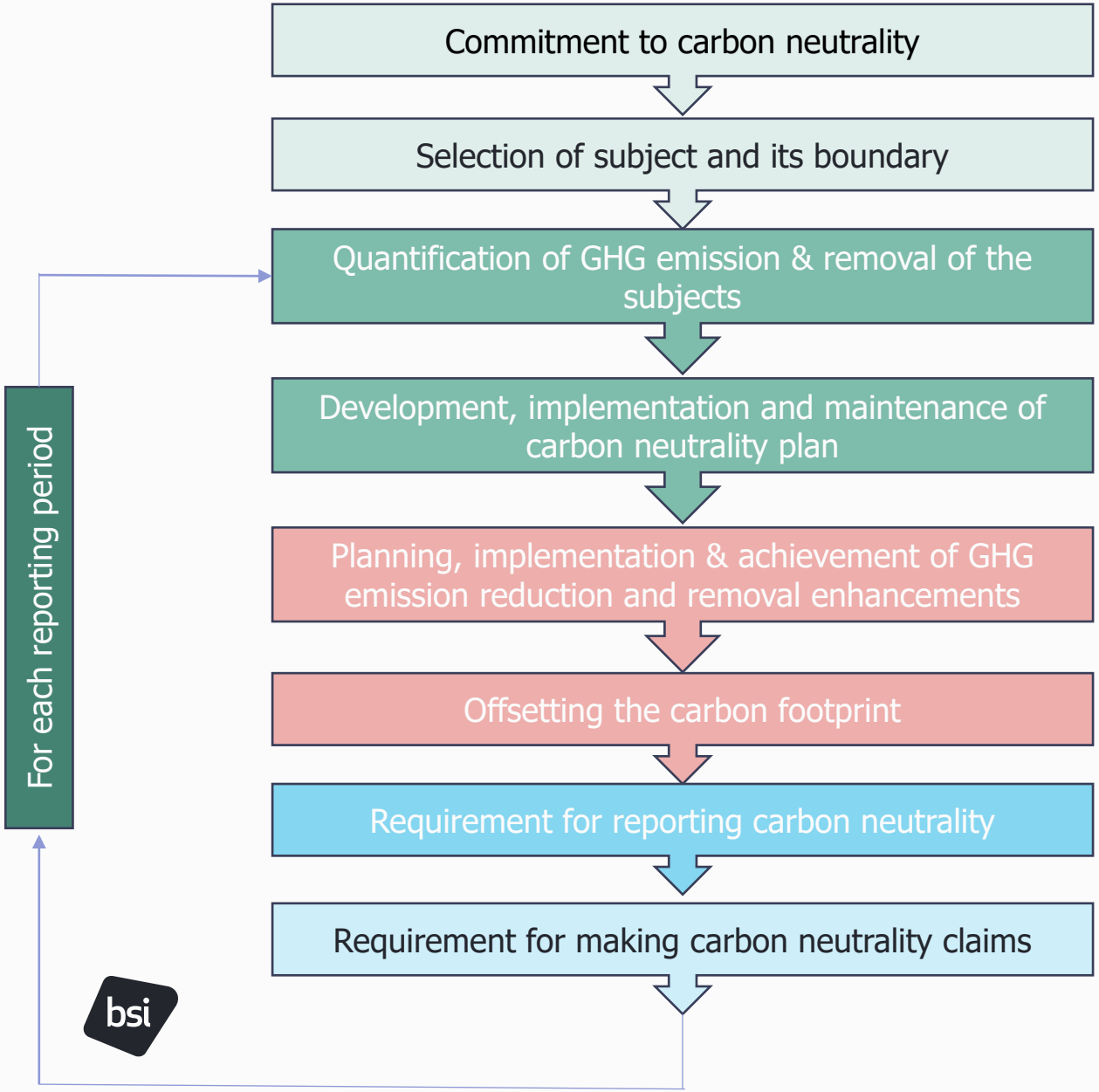
Incorporating net zero actions into other planned investments at little or no additional cost

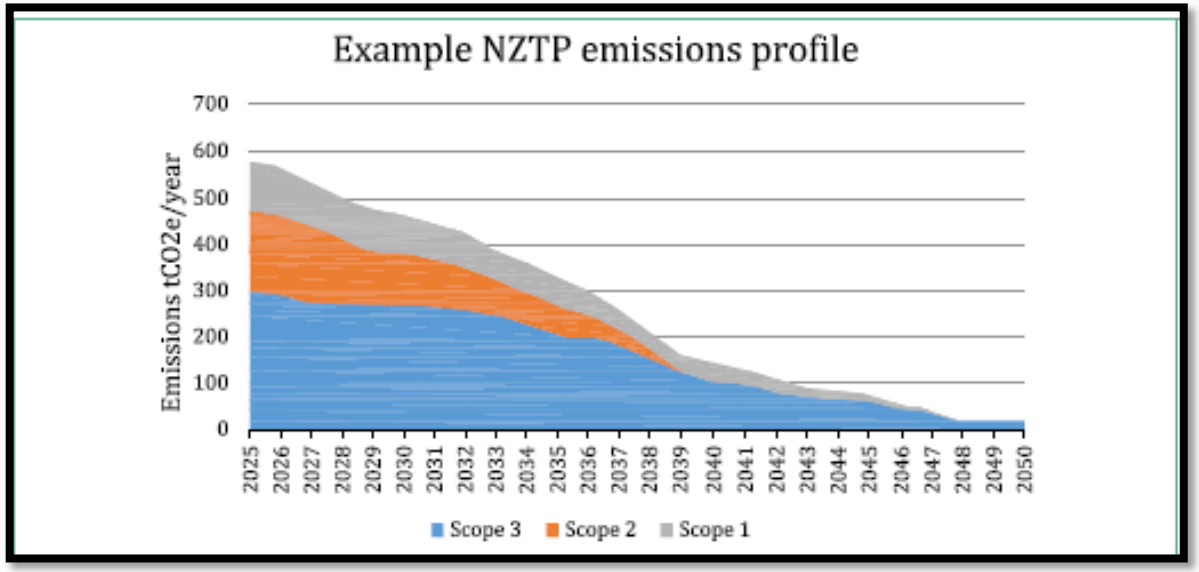
Commercial finance, including specifically “green” loans or leases

There are two main types of sustainable finance facilities that banks provide:

- sustainability-linked loans (SLLs): loans for general corporate purposes where the corporation signs up to certain **ESG metrics**, which, if met, lead to a step-down in the interest rate; and
- “use of proceeds” facilities for specific **ESG projects**, e.g. finance for green projects, converting fleets to electric vehicles, installing biomass boilers and smart building technology.

Key Steps for Organizations to Achieve Net Zero:





Q&A

“ท่านสามารถพิมพ์คำถามของท่านใน Chat ได้เลยนะคะ”

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