

Beyond ESG: Maximizing impact through integrated approaches.

Background and context: Stockholm Environment Institute



National and subnational level



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

GOVERNMENT OF MONGOLIA
MINISTRY OF ENVIRONMENT
AND TOURISM

CLIMATE &
CLEAN AIR
COALITION
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

**Opportunities from taking integrated
actions on air pollution and climate
change in Mongolia
Executive Summary**



January 2020

CHILE'S NATIONALLY
DETERMINED CONTRIBUTION

UPDATE 2020



Ministry of Environment, Forest and Climate Change
Government of the People's Republic of Bangladesh




Nationally
Determined
Contributions
2020
(Interim)
from vision to action

MINISTRY OF ENVIRONMENT

**NATIONAL ACTION PLAN
ON AIR POLLUTANTS**

DETERMINING NATIONALLY AVOIDED EMISSIONS
2019






**NIGERIA'S NATIONAL ACTION PLAN (NAP)
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS (SLCPs)**

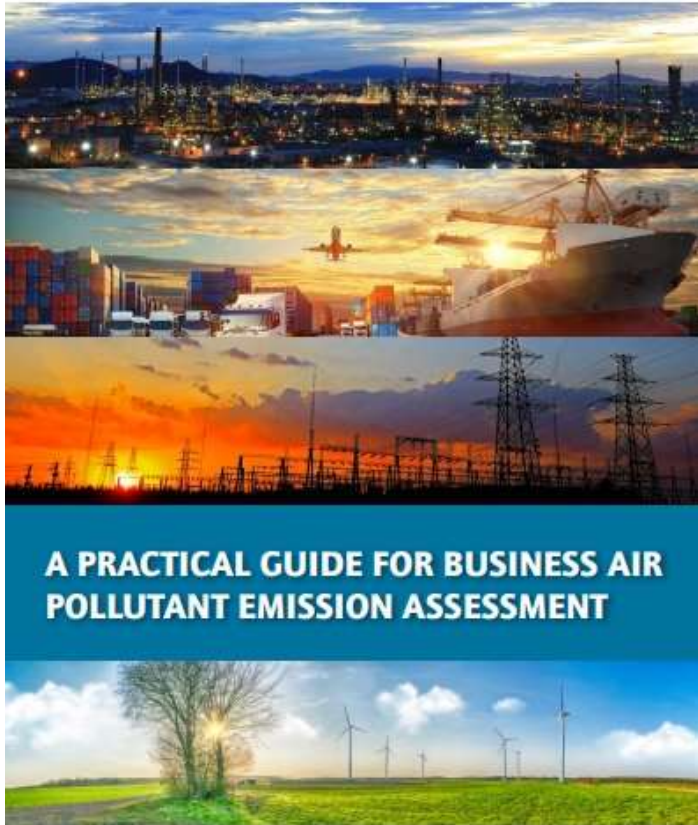


DECEMBER
2018

Business tools for air pollution?

	Climate Change	Air Pollution
National, subnational governments	 <p>ipcc INTERGOVERNMENTAL PANEL ON climate change</p>	 <p>25 1994-2019 European Environment Agency</p>
Businesses	 <p>GREENHOUSE GAS PROTOCOL</p>	?????

Introduction to the Guide



Collaboration between SEI, CCAC and IKEA

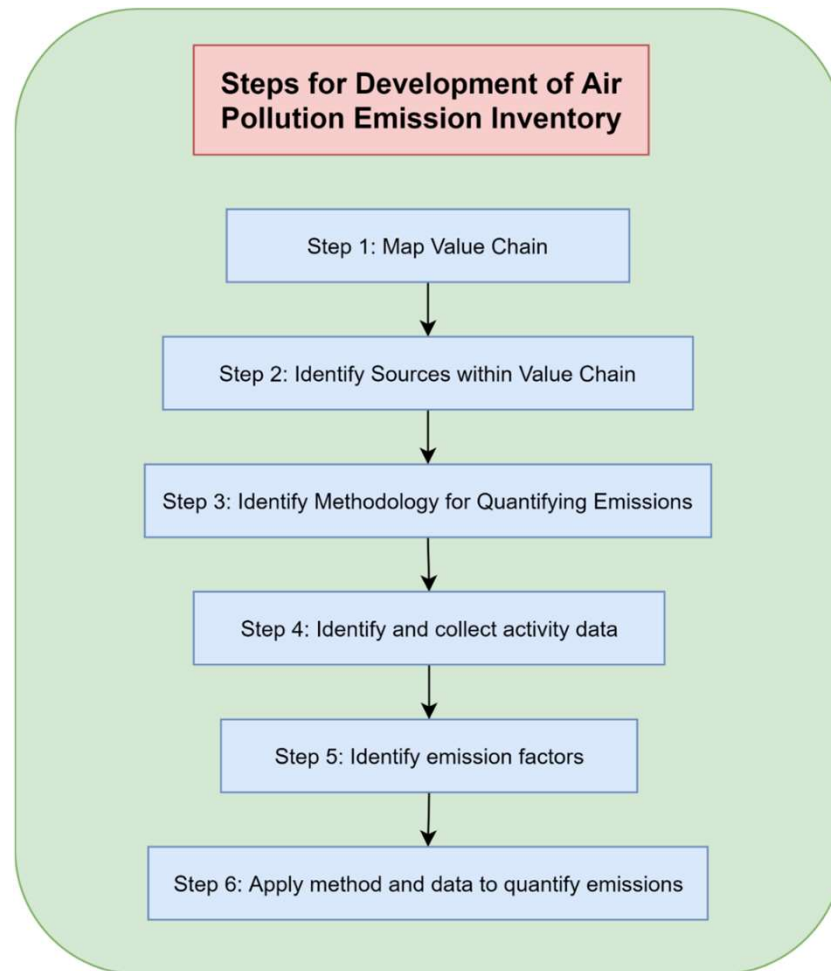
[A Practical Guide For Business: Air Pollutant Emission Assessment | Climate & Clean Air Coalition \(ccacoalition.org\)](#)

Steps to develop air pollutant emission inventory

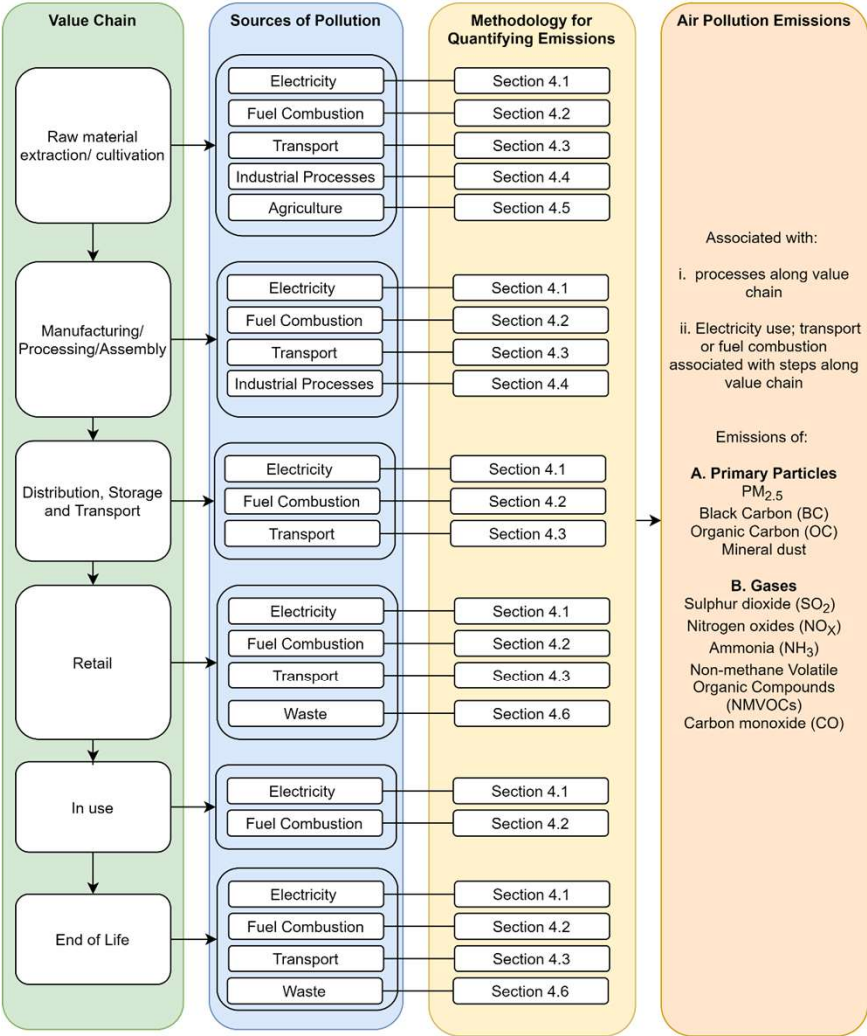
Key concepts:

- Value chain
- Emission source

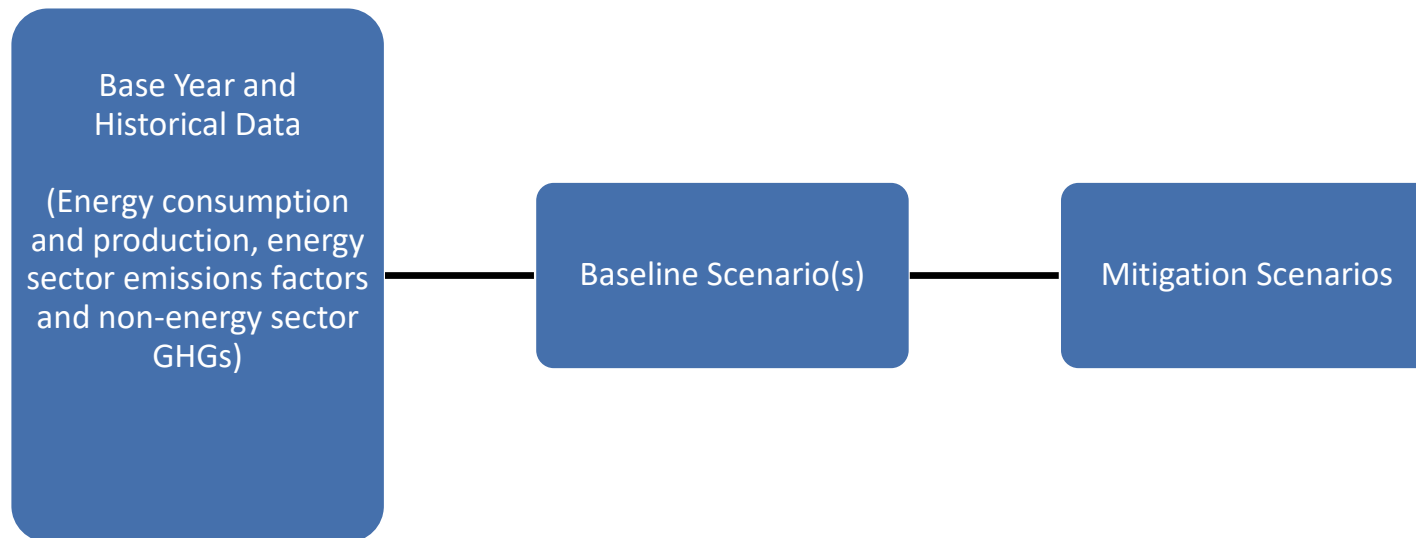
Consistency with guidance on GHG emission quantification



Sources within value chain



Developing an air pollution inventory and scenario analysis



The World Economic Forum's Alliance for Clean Air

Alliance Members

accenture

Biogen

Bloomberg

EY

GEA

Google

goto

gsk

HALEON

IKEA

MAERSK

Mahindra
Rise.

moderna

ORACLE

SIEMENS

wipro

Reporting

- The Corporate Sustainability Reporting Directive (CSRD), which amends the 2014 Non-Financial Reporting Directive (NFRD)
- India Imposes New ESG Reporting Requirements on Top 1,000 Listed Companies
- Global Methane Pledge (more than 110 signatories)

Beyond GHGs

Climate change: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PCFs), sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃)

Air pollution: sulphur oxides (SO_x), nitrogen oxides (NO_x), particulate matter (PMs), carbon monoxide (CO), persistent organic pollutants (POPs), volatile organic compounds (VOCs), ammonia (NH₃)

Integration is key

Air pollutant emissions

Mitigation plans and policies

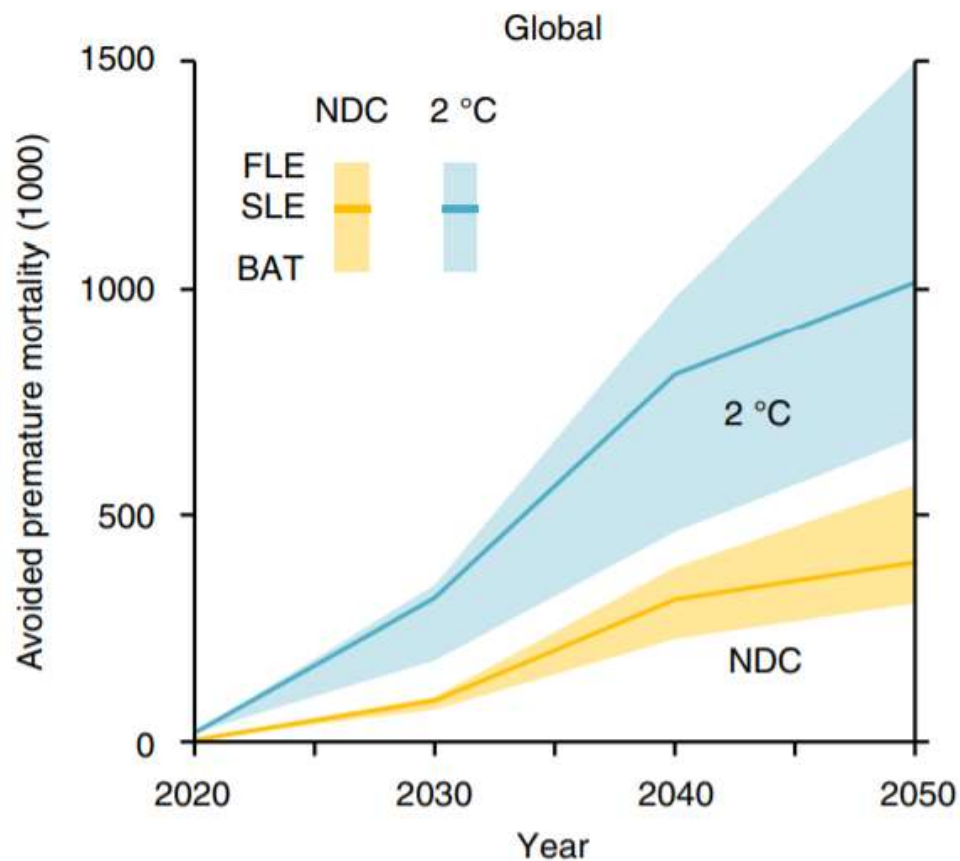
Inventories

Reporting

Goals and targets (SDG or other)

...

Air pollution and climate change links

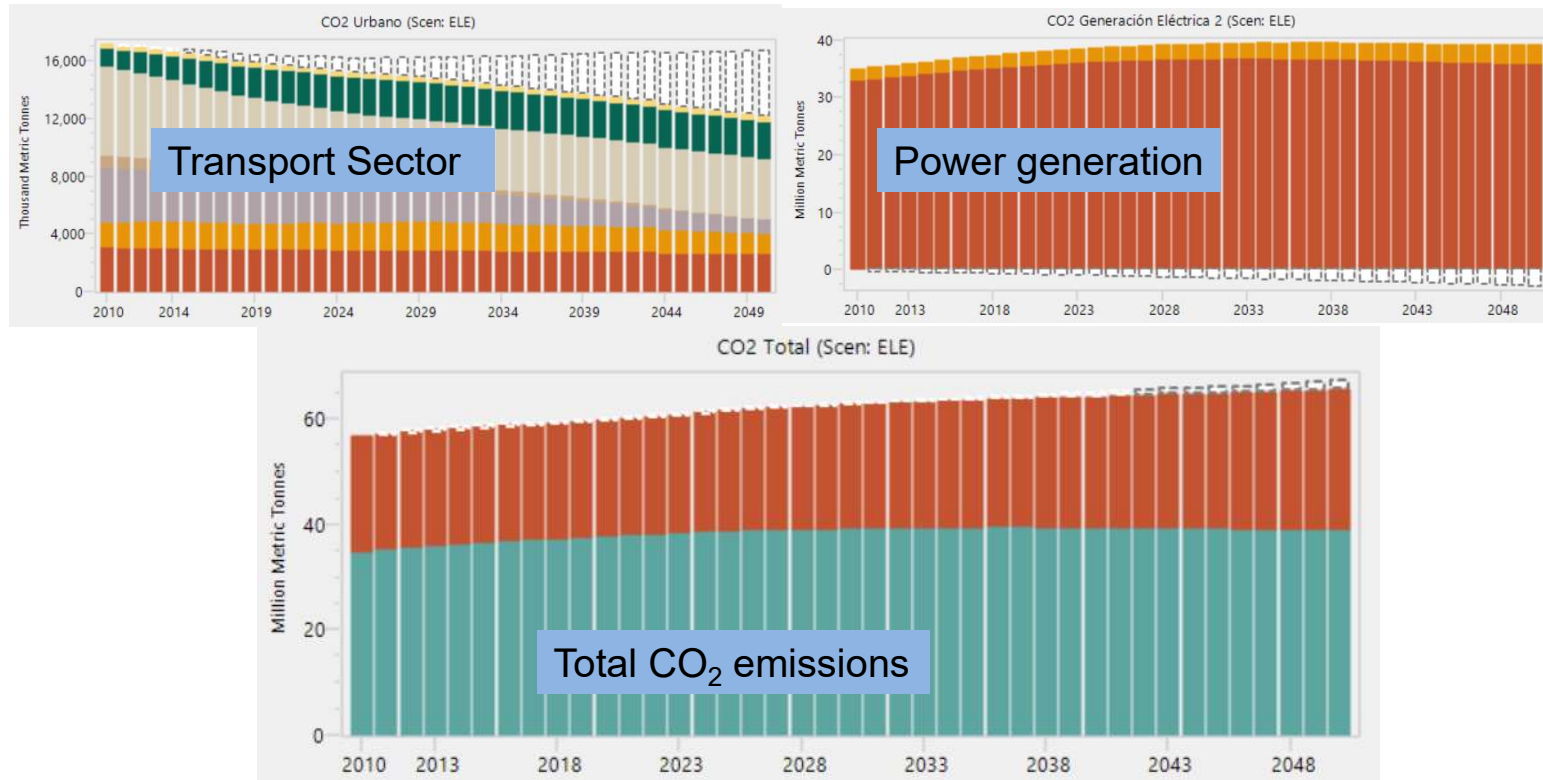


Over 1 million premature deaths avoided in 2050 if Paris target is achieved from improved air quality

Vandyck et al. 2018

LEAP-IBC analysis: Electromobility

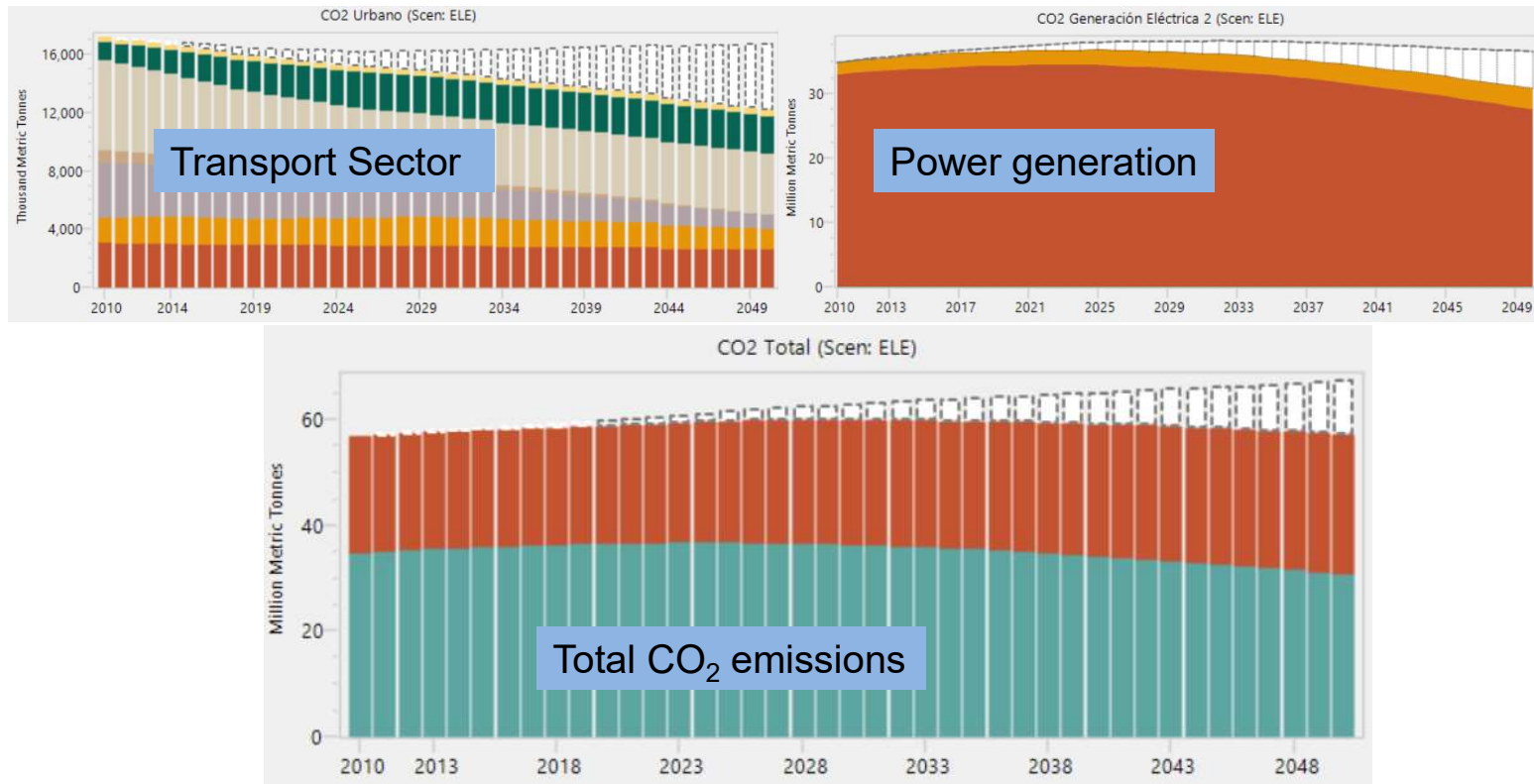
- Without power generation measure



Preliminary results. LEAP-IBC analysis by Kevin Barraza and Sebastian Tolvett, UTEM

LEAP-IBC analysis: Electromobility

- With 5% more solar electricity generation



Preliminary results. LEAP-IBC analysis by Kevin Barraza and Sebastian Tolvett, UTEM

Don't fear complexity.

- Complex/wicked problems can have simple solutions
- Build on what we already have / on what already works
- Collaboration is key/ no one can do this alone (but we will all have to do it)
- There is – absolutely – no reason not to do this

