



SUSTAINABILITY LEARNING CORNER

Lesson 1

Why conduct a greenhouse gas inventory?

As climate change becomes an increasingly serious issue, companies can no longer focus solely on their core business; they also need to take responsibility for environmental sustainability. Conducting a Greenhouse Gas Inventory (GHG Inventory) is the first step for companies toward a low-carbon transformation.

Through the inventory, we can:



Understand the carbon footprint:

Know exactly how much greenhouse gas the company emits through production, operations, energy use, and so on.



Make informed decisions:

Identify key high-emission areas to develop effective carbon reduction strategies.



Respond to stakeholder concerns:

More and more customers and investors are demanding suppliers disclose their carbon emissions information.



Comply with regulations and international trends:

The EU's CBAM, Taiwan's upcoming carbon tax, and other measures are all closely related to greenhouse gas inventory data.

Emission Scopes 1, 2, and 3

Scope 1

Direct emissions: GHGs from company-controlled sources like fuel use and refrigerant leaks.



(PwC簡報圖片)

Scope 2

Indirect emissions: GHGs from purchased energy like electricity and steam.



外購電力或蒸汽

What does this have to do with me?

You might think, "I'm not in the environmental safety or management department, nor responsible for equipment—does greenhouse gas emission have anything to do with me?"
The answer is: Yes, it does, and it's very important!
When we all understand, participate, and optimize processes together, sustainability will no longer be just a slogan but an everyday choice in our work.



Every employee's daily actions—such as equipment use, air conditioning settings, and travel arrangements—actually relate to the company's carbon emissions.

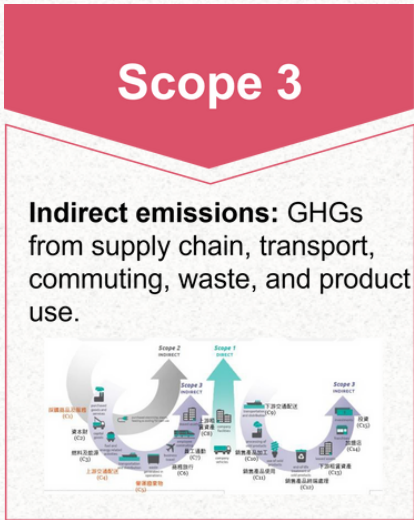


Our various operational processes and procurement decisions can all potentially impact the overall carbon footprint.



Only through everyone's understanding and participation can we ensure that sustainability actions go beyond reports and happen in every detail.

Emission Scopes 1, 2, and 3



(PwC簡報圖片)



After conducting the inventory, then what?

The inventory is not just to meet audits or reports, but to honestly face the current situation so that we can make changes based on the problems identified.
Are there opportunities to save electricity in certain processes? Is there room to optimize transportation? Are our raw materials overly reliant on high-carbon processes?
These answers require everyone's participation, transparency, and improvement.
"We cannot expect a different future if we keep being the same."
When we are willing to adjust habits, review processes, and rethink every choice, we take that important step toward change!

