

## Scope 4 Emission and Difference Between Scope 1, 2, and 3

Learn about the different scopes of greenhouse gas emissions and their implications for sustainability and corporate responsibility.

### By - Sachin Sharma





#### Franchises

Investments

E Leased assets

### End-of-life treatment of sold products

**Downstream activities** 

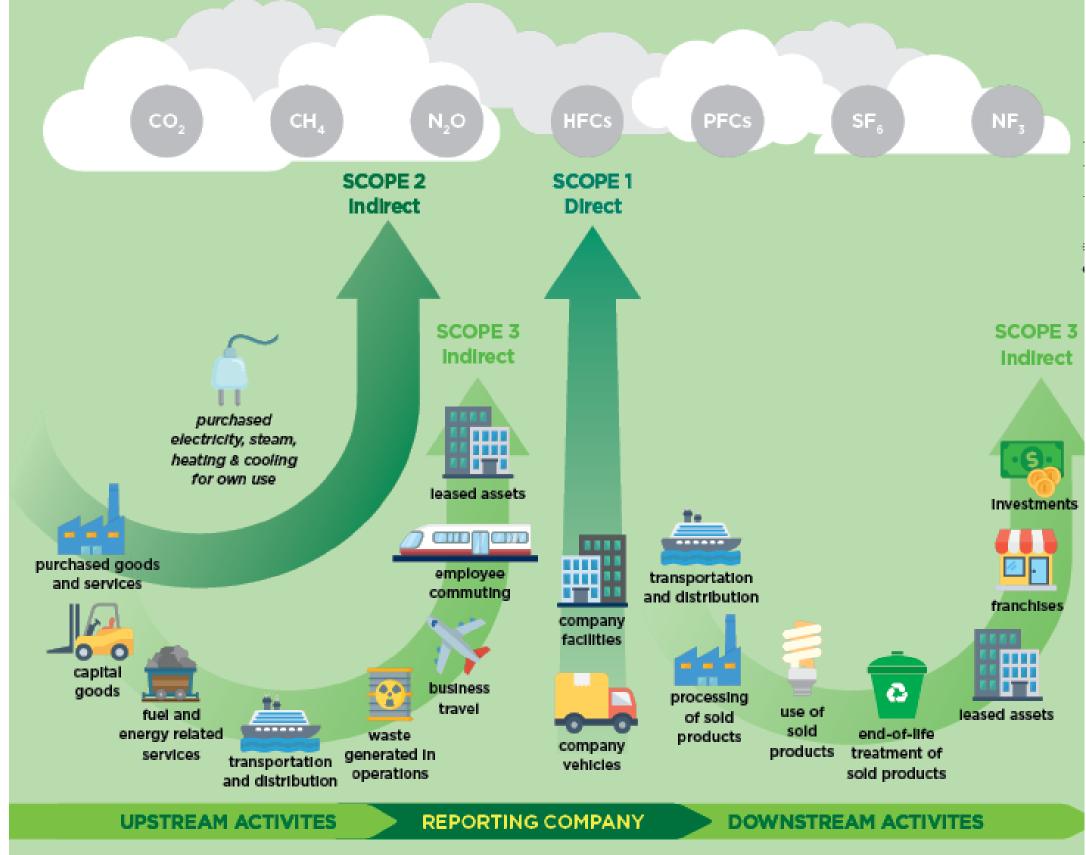
## Scope 1 Emissions

### **Definition and Examples**

Scope 1 emissions are direct greenhouse gas emissions from sources owned or controlled by an organization, such as fuel combustion and on-site energy production.

### Significance within Greenhouse Gas Accounting

Tracking and reducing scope 1 emissions is crucial for organizations to measure their carbon footprint accurately and take meaningful climate action.



## Scope 2 Emissions



### **Definition and Examples**

Scope 2 emissions refer to indirect greenhouse gas emissions resulting from the consumption of purchased electricity, heat, or steam.



### Role in Corporate Sustainability

Managing scope 2 emissions involves promoting the use of renewable energy sources and reducing reliance on fossil fuels.

## What are Scope 1, 2 & 3 Emissions?

# Direct

Emissions from operations or processes your company directly controls.

# Indirect

Greenhouse gas emissions generated by your company's acquisition of energy. (e.g. electricity, steam, heating or cooling)



All emissions, excluding those covered in scope 2, created by your organization's supply chain, upstream or downstream.



## Indirect



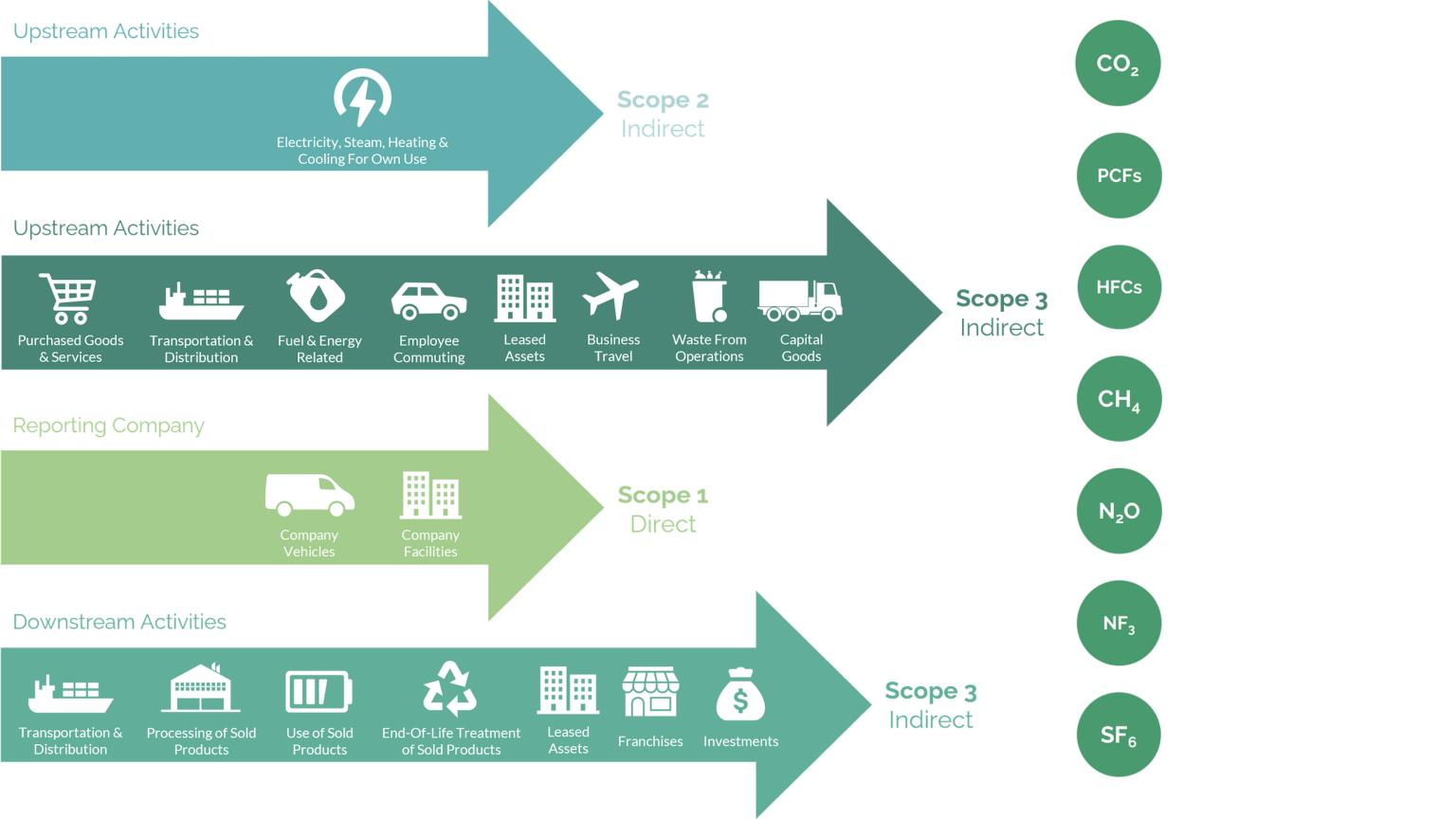
## **Scope 3 Emissions**

### **Definition and Examples**

Scope 3 emissions are indirect emissions that occur as a result of an organization's activities but are not owned or controlled by them, such as business travel and supply chain emissions.

### **Considerations for Indirect Emissions**

Addressing scope 3 emissions requires collaboration and engagement with suppliers, customers, and other stakeholders throughout the value chain.





## Key Differences between Scope 1, 2, and 3 Emissions

2

3

Implications for Emission Reduction Strategies

Understanding the distinctions between the scopes enables organizations to develop targeted strategies to reduce emissions and mitigate climate change impact. Measurement and Reporting Approaches

Each scope requires different methodologies for measurement and reporting to accurately capture the emissions footprint of an organization.

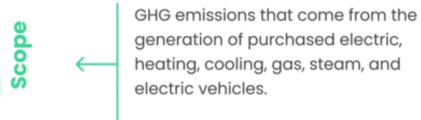
#### Collaboration and Stakeholder Engagement

Scope 3 emissions necessitate collaboration with suppliers, customers, and partners due to their indirect nature, creating opportunities for shared sustainability goals.

## What is Scope 4 emission

Scope 4 emissions focus on the indirect impacts of an organization's value chain, including its customers and suppliers. These emissions encompass activities that occur upstream and downstream of an organization's operations, such as the extraction, production, and transportation of raw materials, as well as the use and disposal of products by customers.





INDIRECT EMISSIONS



GHG value chain emissions that include both upstream and downstream of an organisation's main operations. The scope 3 emissions for one organization are the scope 1 and 2 emissions of another organization.

#### INDIRECT EMISSIONS



Emission reductions that happen outside of a product's life cycle or value chain, but as a result of the use of that product.

AVOIDED EMISSIONS

### Difference Between Scope 1, 2, 3, and 4



### Conclusion

### So, what sets Scope 4 apart from the other scopes?

While Scope 1, 2, and 3 emissions are primarily within an organization's control, Scope 4 emissions require collaboration and engagement with external stakeholders. Organizations must work closely with suppliers, customers, and partners to understand and address the environmental impacts associated with their value chain. This collaborative approach is crucial for achieving a holistic and comprehensive sustainability strategy.

Managing and reducing greenhouse gas emissions across all scopes is essential for organizations striving for environmental stewardship and sustainable business practices.