

# Carbon Management Platform

## - Carbon Star -

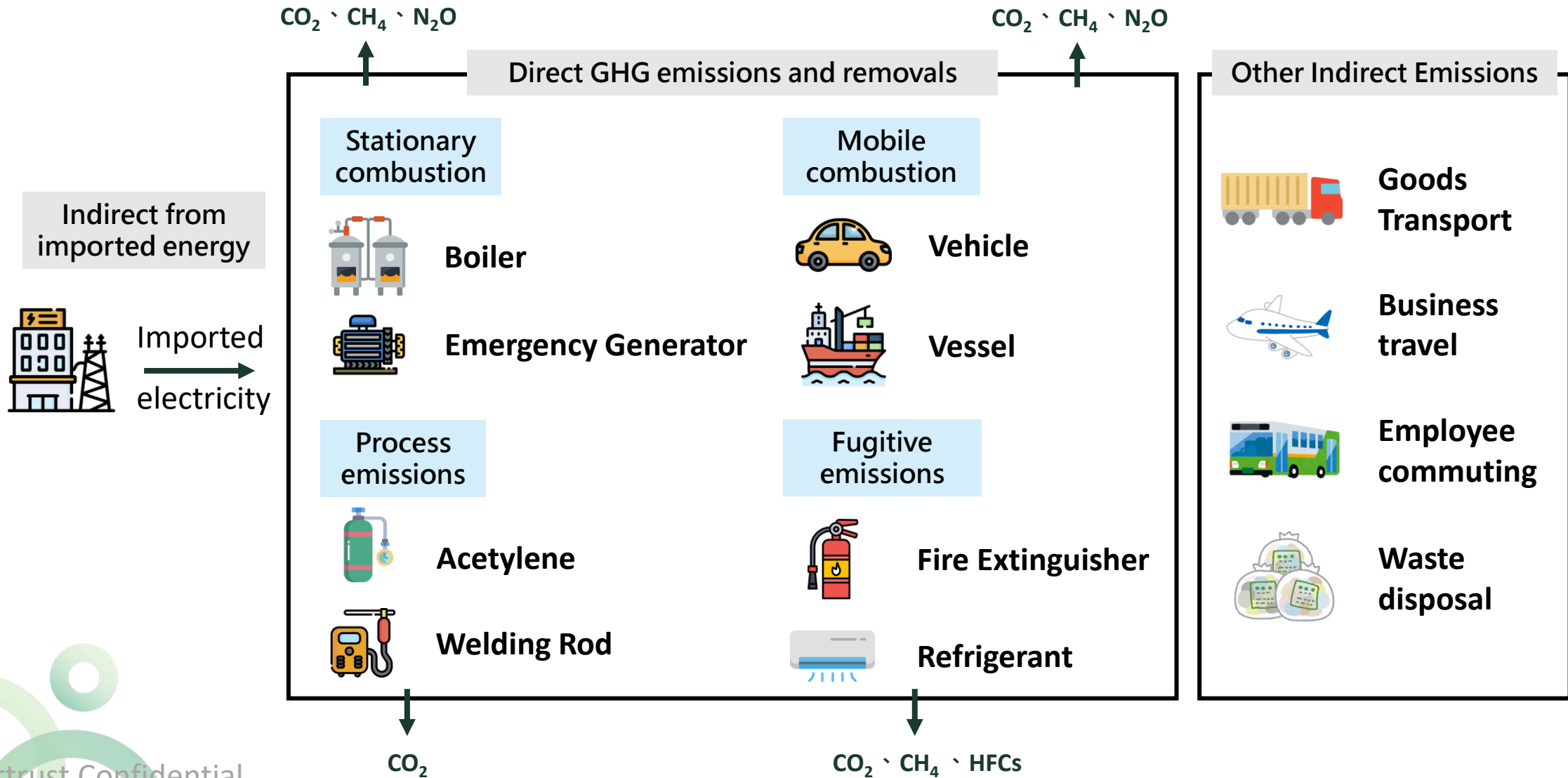
Skyler  
2024/01

# About GHG Assessment

# ISO 14064-1 GHG Assessment

Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
Direct GHG emissions and removals	Indirect from imported energy	Indirect from transportation	Indirect from the product used by the organization	Indirect from the use of products from the organization	Indirect Greenhouse Gas Emissions from Other Sources
Stationary combustion	Imported electricity	Upstream transport and distribution for goods	Purchased goods	The use stage of products	The previously unmentioned parts.
Mobile combustion	Imported energy (Utility other than electricity)	Downstream transport and distribution for goods	Capital goods	Downstream leased assets	
Process emissions		Employee commuting	Waste disposal	End of life stage of products	
Fugitive emissions		Client and visitor transport	Leased assets	Investments	
Land use		Business travel	Other		

# Identification of GHG Emission



# Collecting data in a digital format

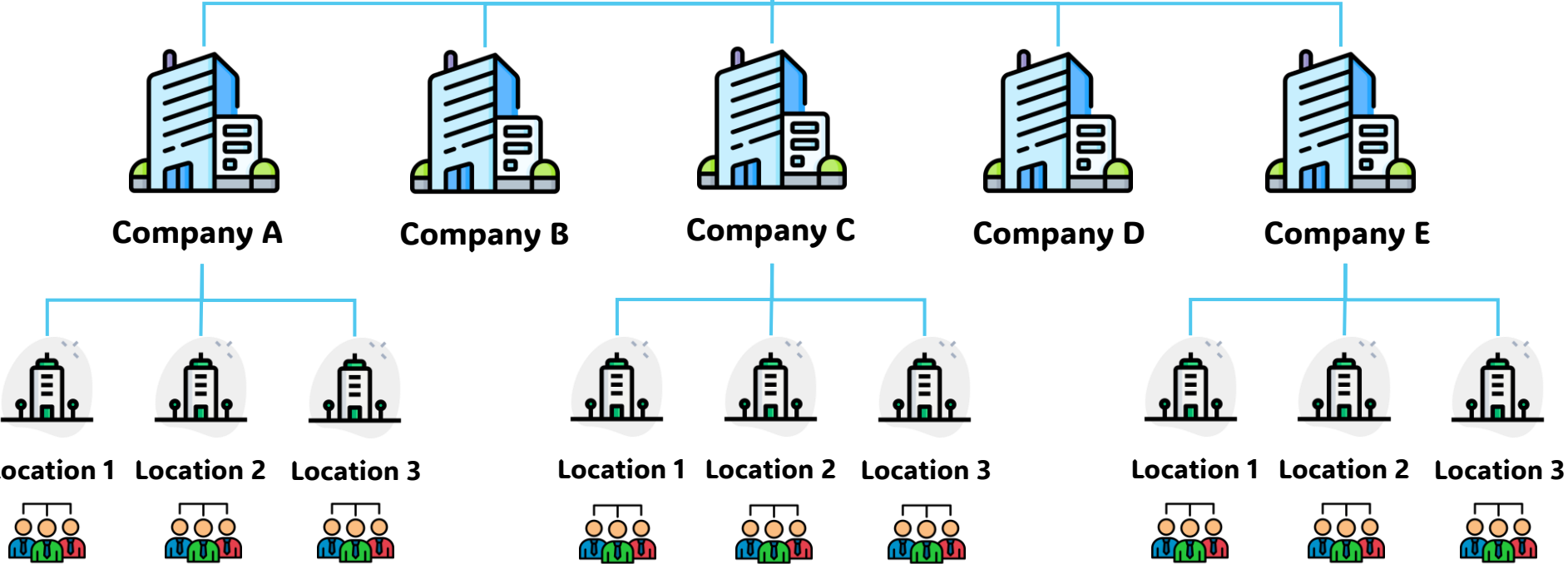
# System Architecture



Multinational Corporation



Multiple Companies, Locations, and Departments Collaboratively Utilizing



# ISO 14064-1 Activity Data Collection Module



Category 1 > Stationary Combustion

Detail	Activity ID	Entry date	Calculation period	Emissions	Status
<input type="checkbox"/>	SYS-F11-231220000000011	2023/12/20	2023/12/01-2023/12/07	2.2712e-1tCO <sub>2</sub> e	Pending approval
<input type="checkbox"/>	SYS-F11-231220000000010	2023/12/20	2023/12/01-2023/12/08	2.2712e-1tCO <sub>2</sub> e	Pending approval
<input type="checkbox"/>	SYS-F11-231220000000009	2023/12/20	2023/12/01-2023/12/02	1.7544e-1tCO <sub>2</sub> e	Pending approval
<input type="checkbox"/>	SYS-F11-231220000000008	2023/12/20	2023/12/01-2023/12/02	1.7544e-1tCO <sub>2</sub> e	Pending approval
<input type="checkbox"/>	SYS-F11-231220000000007	2023/12/20	2023/12/01-2023/12/02	1.7544tCO <sub>2</sub> e	Pending approval
<input type="checkbox"/>	SYS-F11-231211000000001	2023/12/11	2022/01/01-2022/12/31	2.2659tCO <sub>2</sub> e	Pending approval

Category 1

Category 2 > Imported Electricity

Detail	Activity ID	Entry date	Calculation period	Emissions	Status
<input type="checkbox"/>	SYS-F21-231213000000002	2023/12/13	2023/01/01-2023/12/31	4.95tCO <sub>2</sub> e	Pending approval

Category 2

Category 3 > Goods Transportation

Detail	Activity ID	Entry date	Emissions	Status	Transportation	Transportation
<input type="checkbox"/>	SYS-F31-231211000000001	2023/12/11	0.0002tCO <sub>2</sub> e	Approved	Upstream	Land

Category 3

Category 4 > Fuel and energy-related activities

Activity ID	Category 1, 2 activity ID	Entry date	Emissions	Status	Calcu
SYS-F44-231213000000008	SPE-F12-231213000000006	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000011	SPE-F12-231213000000009	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000006	SPE-F12-231213000000004	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000009	SPE-F12-231213000000007	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000012	SPE-F12-231213000000010	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000007	SPE-F12-231213000000005	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000010	SPE-F12-231213000000008	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231213000000005	SPE-F12-231213000000003	2023/12/13	2.9085e-1tCO <sub>2</sub> e	Approved	2022
SYS-F44-231211000000004	SYS-F12-231211000000002	2023/12/11	0.0006tCO <sub>2</sub> e	Pending approval	2023

Category 4

Category 5 > Downstream Leased Assets

Detail	Activity ID	Entry date	Calculation period	Emissions	Status	Ownership	Supporting docume
No Data							

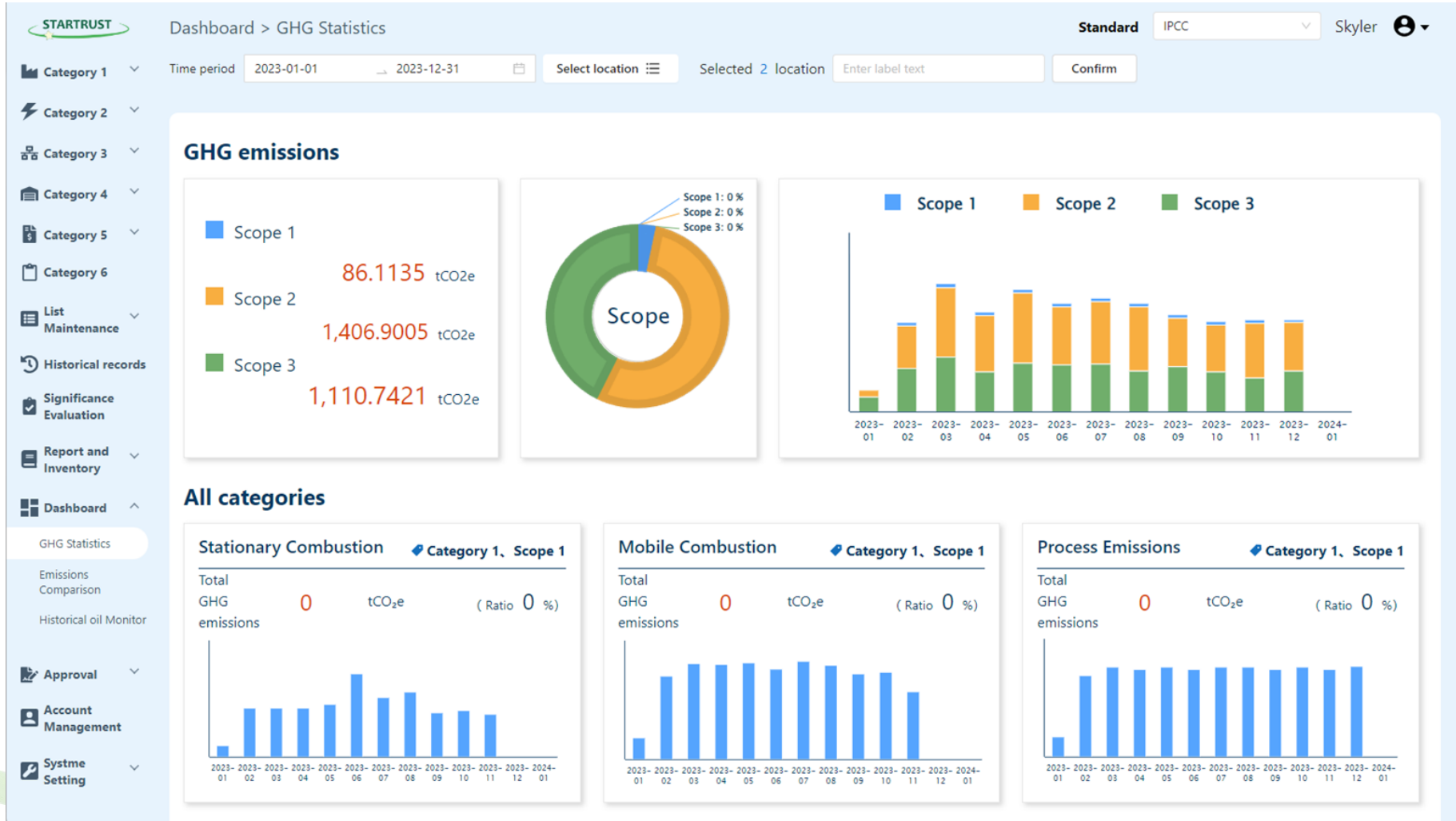
Category 5

Category 6

Calculation period	Emissions	Status	Emission source	Supporting document	Data storage department	Cre
No Data						

Category 6

# Visualizing Data on a Dashboard



- ★ Comprehensive Presentation of Emission Quantities by Category
- ★ Switching Factors for Different Standards
- ★ Comparison of Emission Quantities by Month

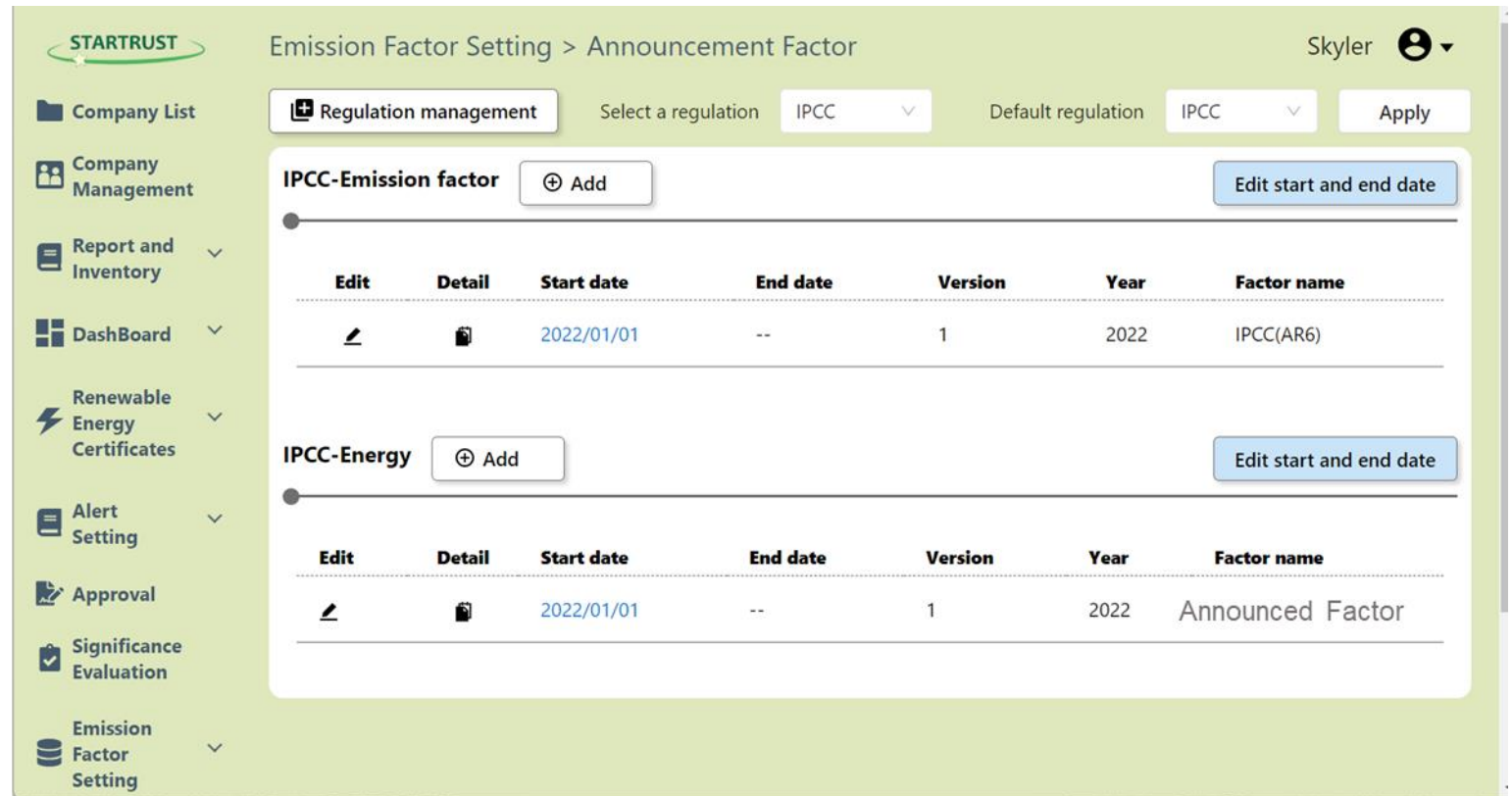


# Key Platform Features

## Compliance with regulations

- Compliance with ISO 14064-1
- Scope 1-3 / Category 1-6
- IPCC Announced Factors
- Documentation Retention

## IPCC Announced Factor



The screenshot displays the 'Emission Factor Setting > Announcement Factor' page in the STARTRUST application. The user 'Skyler' is logged in. The page features a navigation sidebar on the left with options like 'Company List', 'Company Management', 'Report and Inventory', 'DashBoard', 'Renewable Energy Certificates', 'Alert Setting', 'Approval', 'Significance Evaluation', and 'Emission Factor Setting'. The main content area is titled 'Regulation management' and includes a dropdown for 'Select a regulation' (set to IPCC) and a 'Default regulation' dropdown (also set to IPCC). Below this, there are two sections for adding and managing factors: 'IPCC-Emission factor' and 'IPCC-Energy'. Each section has an 'Add' button and an 'Edit start and end date' button. The 'IPCC-Emission factor' section contains a table with one entry:

Edit	Detail	Start date	End date	Version	Year	Factor name
		2022/01/01	--	1	2022	IPCC(AR6)

The 'IPCC-Energy' section contains a table with one entry:

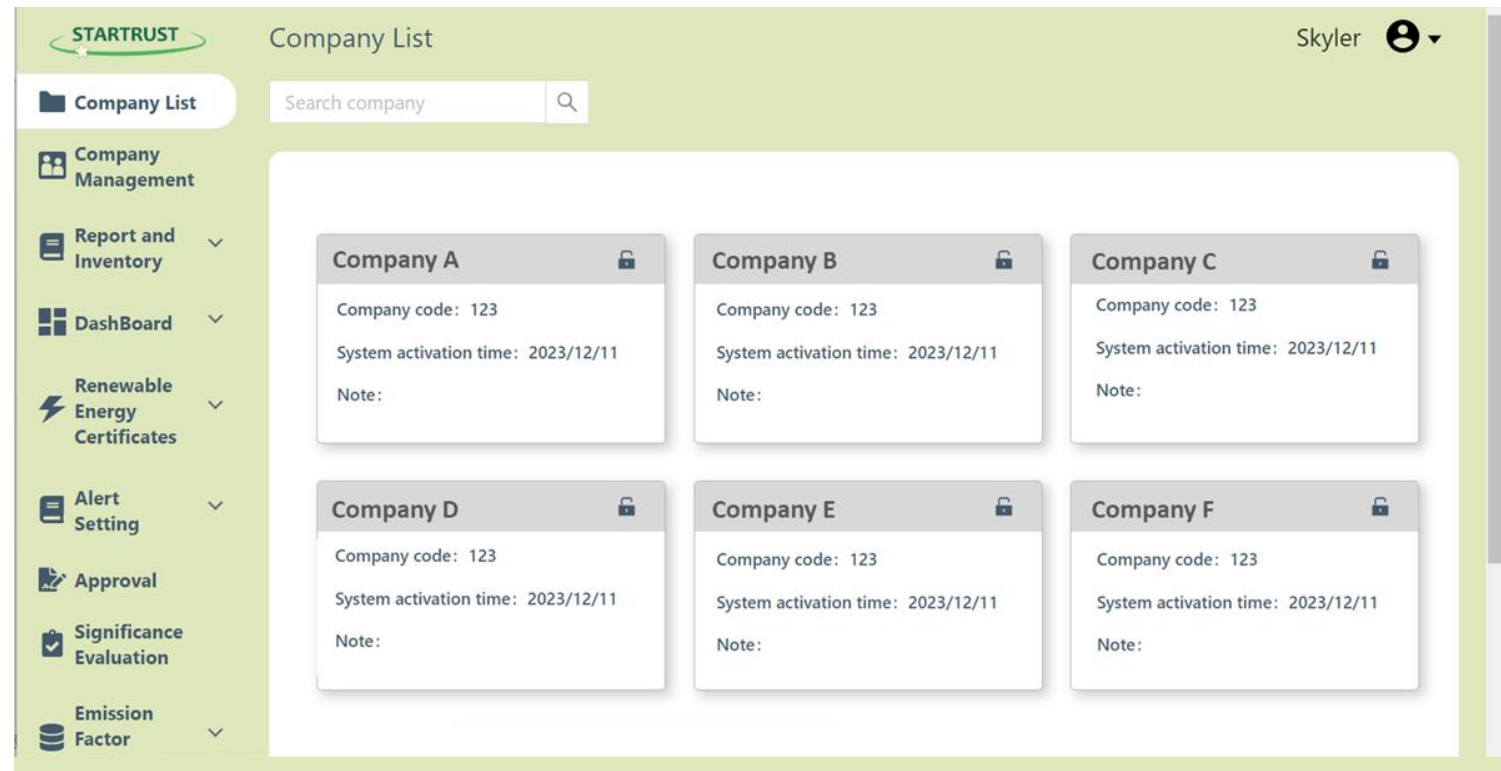
Edit	Detail	Start date	End date	Version	Year	Factor name
		2022/01/01	--	1	2022	Announced Factor

# Key Platform Features

Designed for organizational use

Company List

- Tiered Management for Group, Company, and Department
- Collaborative Multi-User
- Responsibility Assignment
- List Maintenance and Management



STARTRUST Company List

Search company

Company A  
Company code: 123  
System activation time: 2023/12/11  
Note:

Company B  
Company code: 123  
System activation time: 2023/12/11  
Note:

Company C  
Company code: 123  
System activation time: 2023/12/11  
Note:

Company D  
Company code: 123  
System activation time: 2023/12/11  
Note:

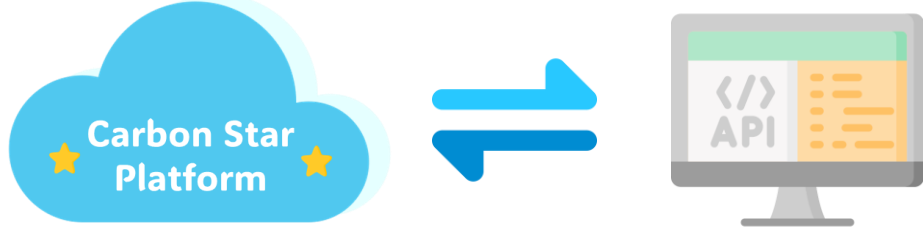
Company E  
Company code: 123  
System activation time: 2023/12/11  
Note:

Company F  
Company code: 123  
System activation time: 2023/12/11  
Note:

Skyler

# Key Platform Features

User-friendly



- Single Entry
- Dropdown Menus
- Excel Import and Export
- API Integration
- Mandatory Field Alerts
- Error Checking

Activity ID: SYS-F11-240114000000012

\* Entry date: 2024-01-14

\* Calculation period: 2024-01-01 to 2024-01-14

\* Process: Non-Manufacturing Proces...  
Non-Manufacturing Process ...  
Boiler Steam Generation proc...  
Thermal Fluid Heating proced...  
Boiler Cogeneration procedure  
Exhaust Gas Treatment process  
Waste Gas Incineration process  
Landfill Operations procedure  
VOC Liquid Storage Tank Ope...

\* Equipment: Leased equipment

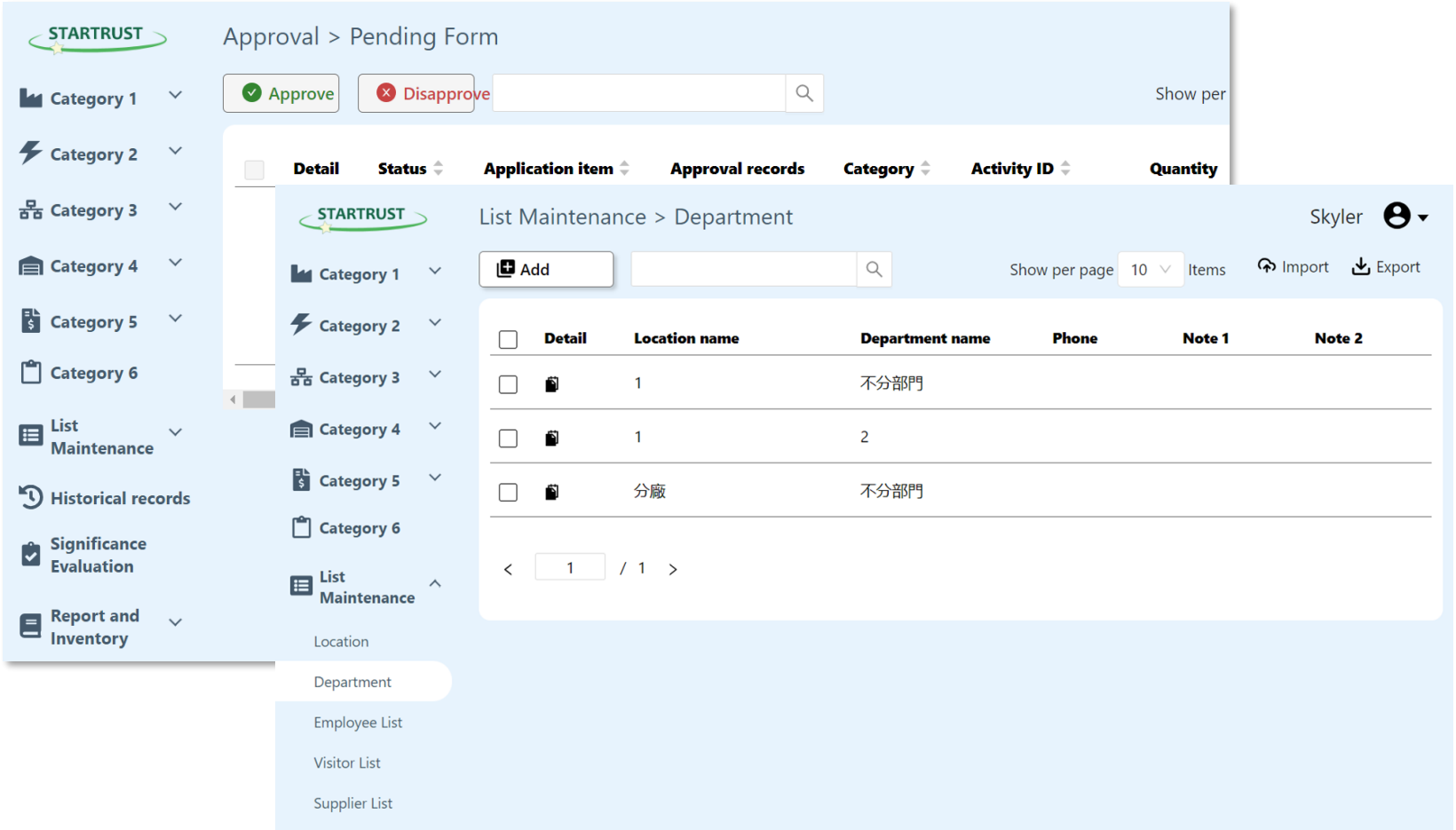
\* Source: Firm List

\* Unit Quality: (g)

# Key Platform Features

## Management features

- Approval/Rejection Feature
- Overdue Notification
- Authority/Responsibility, Organization Setting
- Site Addition Setting



The screenshot displays two overlapping windows from the STARTRUST application. The top window is titled "Approval > Pending Form" and features a sidebar with categories 1 through 6, "List Maintenance", "Historical records", "Significance Evaluation", and "Report and Inventory". The main content area includes "Approve" and "Disapprove" buttons, a search bar, and a table with columns: Detail, Status, Application item, Approval records, Category, Activity ID, and Quantity. The bottom window is titled "List Maintenance > Department" and shows a sidebar with categories 1 through 6 and "List Maintenance". The main content area includes an "Add" button, a search bar, "Show per page 10 Items", "Import", and "Export" options. It contains a table with columns: Detail, Location name, Department name, Phone, Note 1, and Note 2. The table lists three entries: one with "1" in Location name and "不分部門" in Department name, another with "1" in Location name and "2" in Department name, and a third with "分廠" in Location name and "不分部門" in Department name. A pagination bar at the bottom shows "1 / 1".

# About Carbon Star



- Data Automation Integration
- Carbon Reduction Data Visualization
- Comparison of Carbon Reduction Progress
- Automated ISO 14064-1 Report Generation.



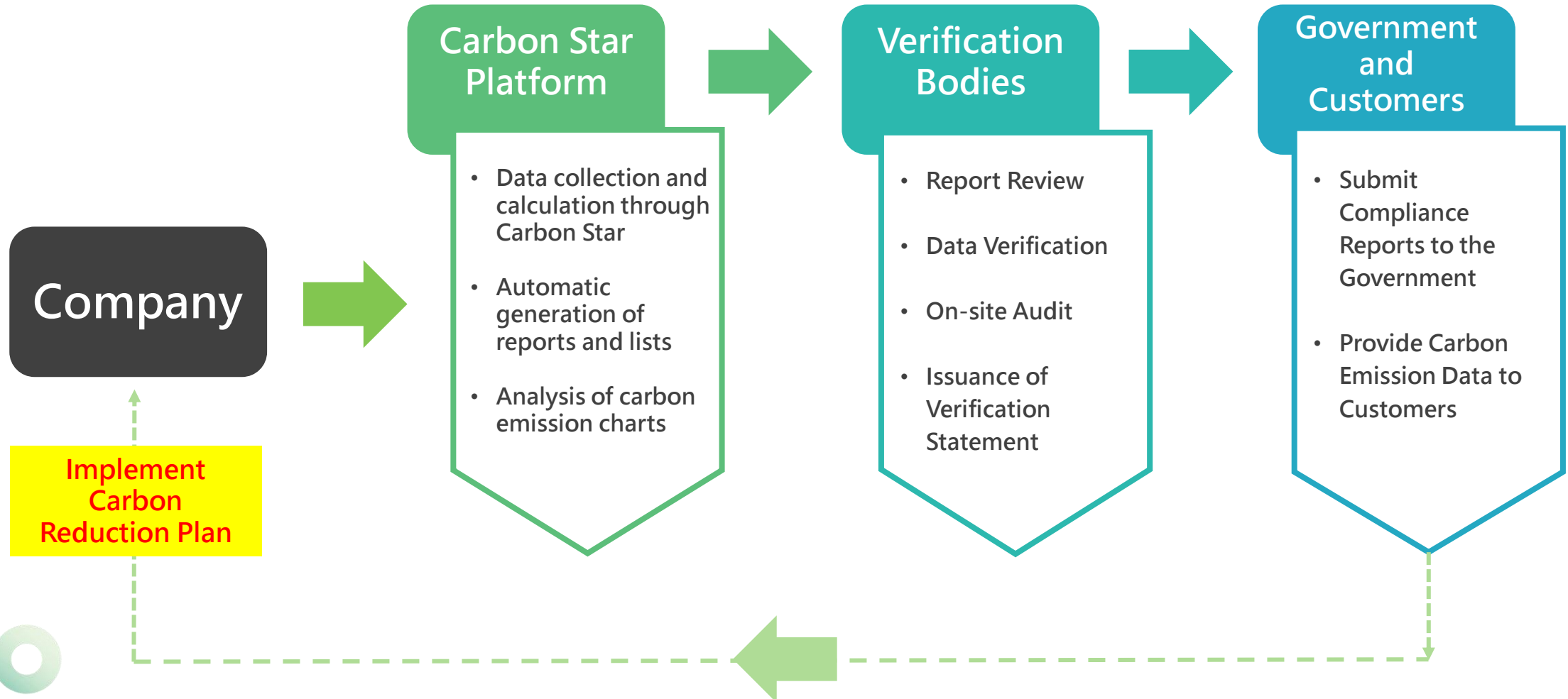
**Integration with Enterprise ERP, HR Systems, and Air Pollution Reporting Forms.**



- Inventory Report
- Certification Guidance
- Product Carbon Footprints

# Towards Sustainability

# GHG Assessment Process



# Sustainable Pathway

## 1 Inventory



- ISO 14064-1
- ISO 14067
- Carbon Label

## 2 Data Comparison



- Comparing Domestic and International Data
- Comparing Emission Levels
- Identify Carbon Reduction Hotspots

## 3 Carbon Reduction



- Systematic Management
- Data Analysis
- Energy Management







# THANK YOU

信星資訊股份有限公司

StarTrust System Inc.

Skyler

[sales@startrust.com.tw](mailto:sales@startrust.com.tw)