

Introduction to ASUENE

ASUENE

INDEX

- 1** Company
- 2** Decarbonization Trend
- 3** Our Service

INDEX

- 1** Company
- 2** Decarbonization Trend
- 3** Our Service



Company

Asuene Inc.

Established

October, 2019

Founder/CEO

Kohei Nishiwada

Offices

Japan (HQ), Singapore, Philippines, US

Shareholders

Pavilion Capital (Temasek Group), Salesforce Ventures, SMBC, Sony Innovation Fund, SBI Investment, NISSAY KDDI GPF, RICOH, Daiwa House GF, Murata, GMO VP, Nippon Express CVC, Incubate Fund, Glin Impact Capital EEI, Axiom Asia, Metaprop, JICN, JERA, etc.

Capital

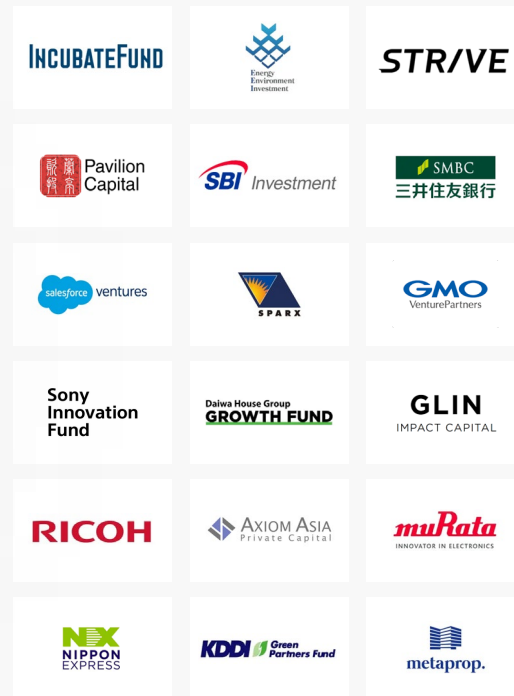
USD 67M (including capital reserve)

Group Companies

Asuene APAC、Asuene USA、Carbon EX

Certified

ISO14064-3, ISO27001(ISMS)



MISSION

Changing the world for the next generation.



We aim to create a decarbonised society for the next generation.
Where economic growth and environmental sustainability are integrated.
Rather than being satisfied with the present, we strive for a better future.
Finding hope in the present to transform the future by making change visible.

Our solutions go beyond Net Zero



ASUENE

Carbon Accounting Platform
to visualize, reduce and report
GHG data across Scope 1-3

No.1

Selected carbon Platform

10,000+

Number of companies



ASUENE ESG

Supply Chain ESG Rating Service
for risk and compliance management

No.1

Supply Chain Platform

14,000+

Number of companies



CarbonEX

Carbon Credit Marketplace
with tailored support for carbon credits and
RECS

1,400+

Registered companies

5 Million+

Tons of credits handled

Asia's leading carbon accounting solution

10,000+ customers with experiences across different industries, countries and size

Manufacturing



Real Estate/Construction



Food and Agriculture



Chemical/Pharma/Medical



Retail/Wholesale



Maritime/Logistics



Financial/Insurance



IT



Hospitality/Education/Event



ASUENE is the impact leader for decarbonization

ASUENE works closely with numbers of associations to lead decarbonization and reporting initiatives across APAC



**Ministry Of Environment
Japan,**
2022 Sustainability Tech
Award



ADS Grant vendor
By IMDA



SBTi Net Zero
Committed by 2050



CDP Partner for
Scoring and Consulting



Participant of UNGC
Commitment to the 10
Principles

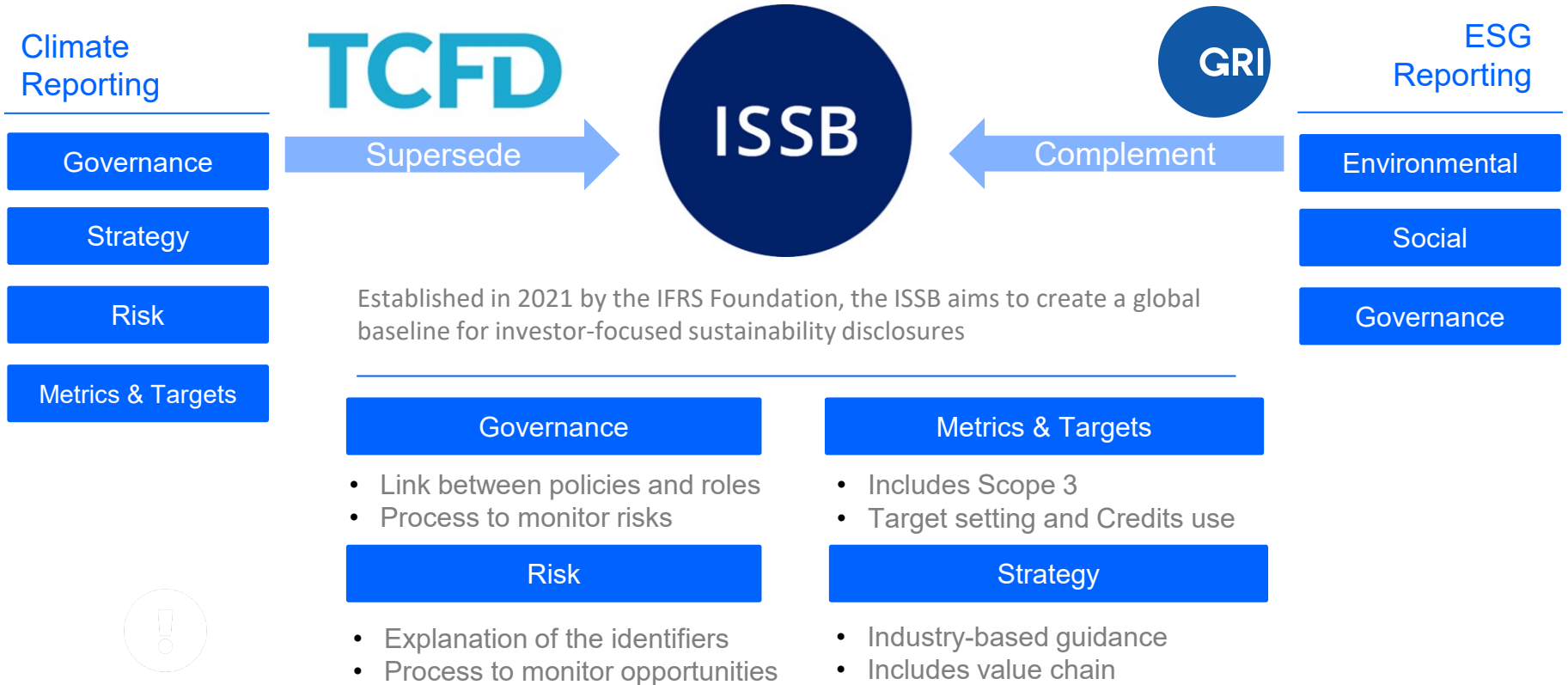


COP27 &28 member
representing Japan

INDEX

- 1** Company
- 2** Decarbonization Trend
- 3** Our Service

ISSB: a global ambition to standardize Sustainability reporting

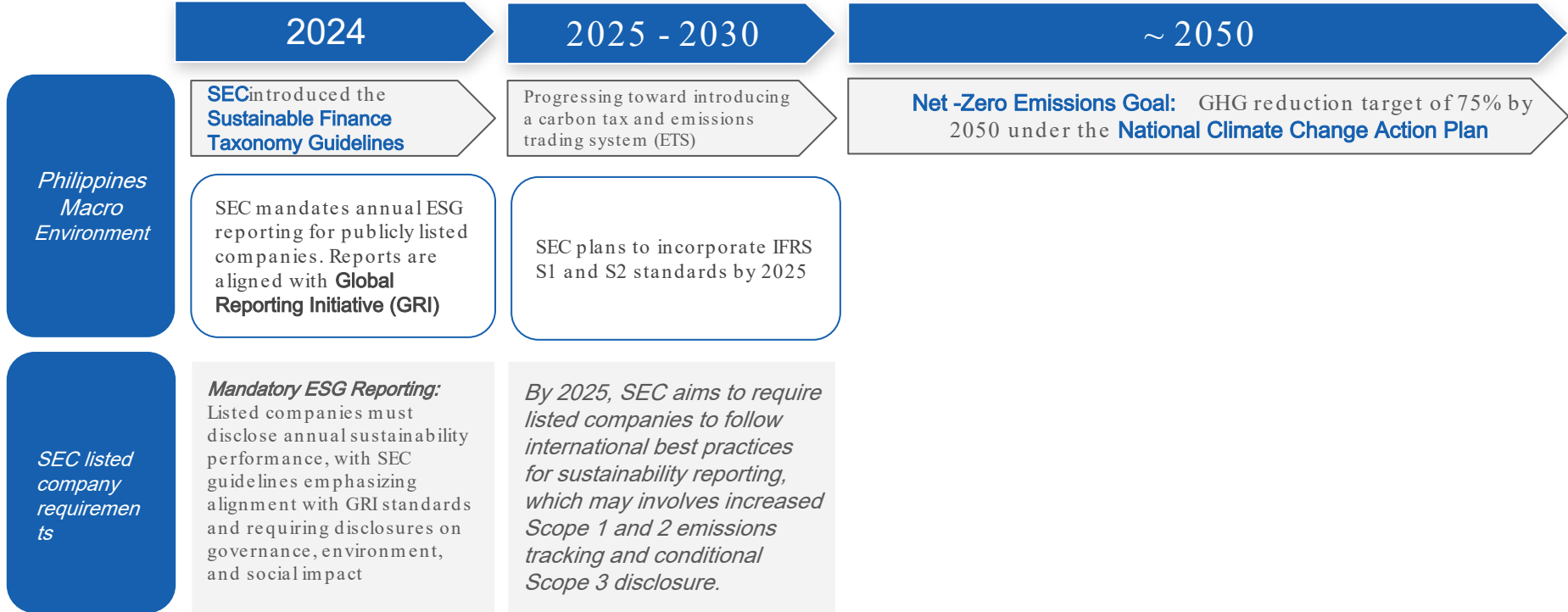


Countries on an ISSB adoption journey

16 countries (incl. 7 in Asia) have announced interest in adopting ISSB standards. However, each country has the freedom to adapt the standards.



Philippines: Mandatory requirements and social need rises



Supply chain effect by MNCs

A lot of MNCs demand their suppliers to reduce GHG emissions or to use 100% renewable energy for the manufacturing process of the goods supplied to them

Toyota



3% GHG Reduction Request



Tier1 SupplierA

Tier1 SupplierB

Tier1 SupplierC

Requesting to reduce 3% of Scope1 and 2 from the year before

Apple



Assembler

Light Supplier

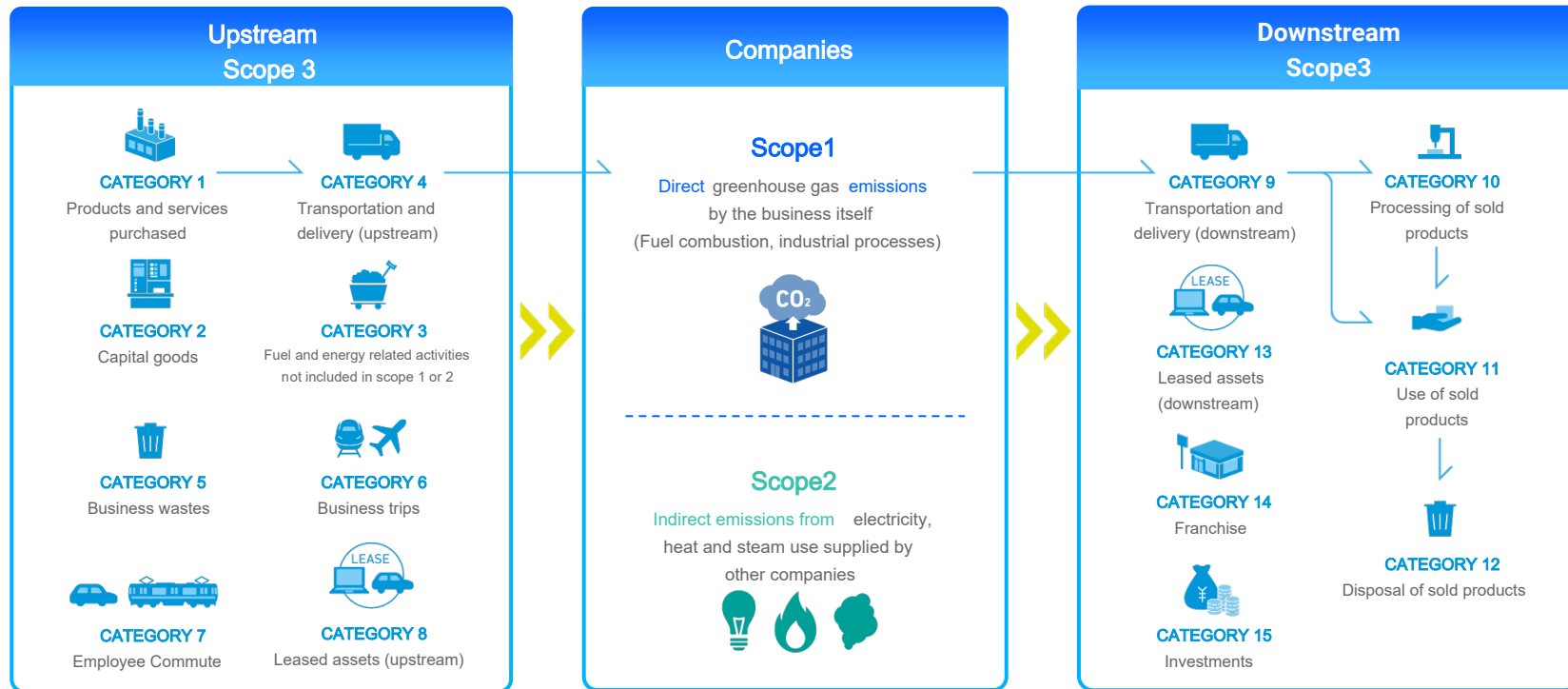
Camera Supplier

OLED Supplier

CPU Supplier

Requesting to use 100% renewable energy to its suppliers

Scope 3 accounts for **75%** of companies' GHG emissions on average based on CDP's estimate



INDEX

- 1** Company
- 2** Decarbonization Trend
- 3** Our Service

Asuene is developed to solve problems in carbon accounting



Don't know where to start or how to do correctly



It takes time to collect, calculate and check data



Reporting and Road mapping is difficult



Hybrid service of Software + Capacity Building + Consultations

ASUENE Software

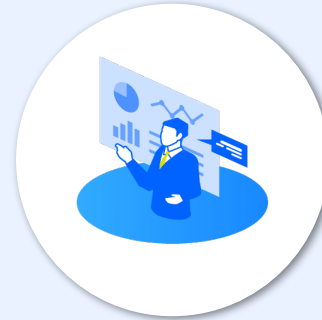


- ✓ Easy and Accurate calculation of Scope 1-3
- ✓ AI-OCR for easy data input
- ✓ Data integration with ERP/EMS systems
- ✓ Auditable data management
- ✓ Up-to-date and granular Emission Factors

+

ASUENE's
Unique
Value

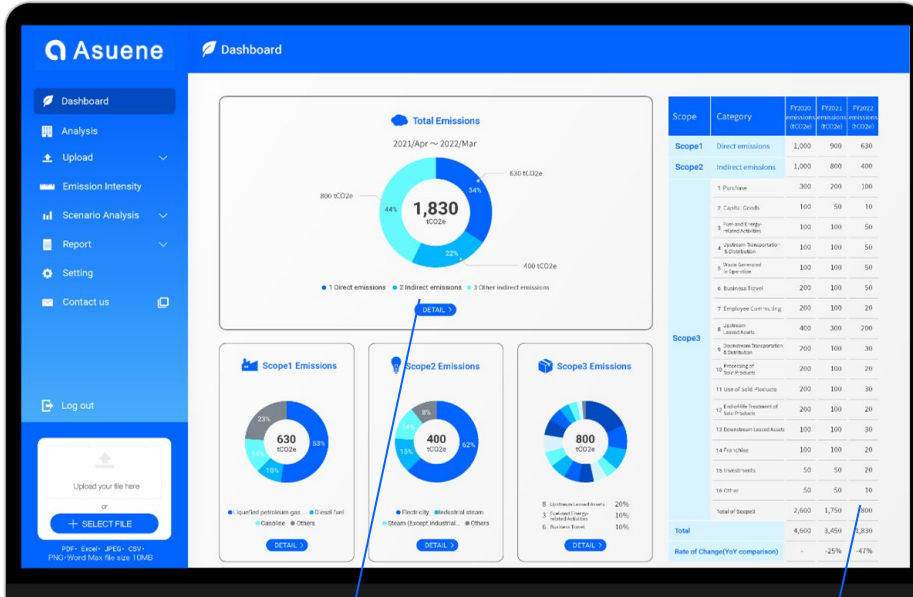
Capacity Building + Consultations (by Sustainability Consultant)



- ✓ Monthly dedicated session
- ✓ 10,000+ user case studies
- ✓ Methodology and EF support
- ✓ Scenario Analysis
- ✓ Disclosure support



Intuitive platform highly rated for the ease of use

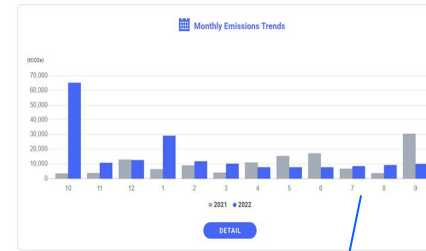


Emissions pie chart

Visualize which scopes are heavy

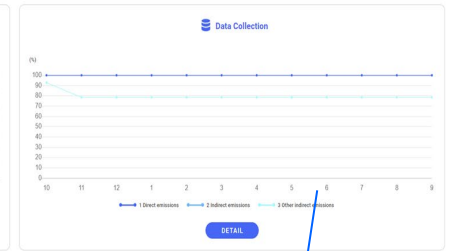
3 years Comparison

Historical comparison of each Scopes



Monthly Trends

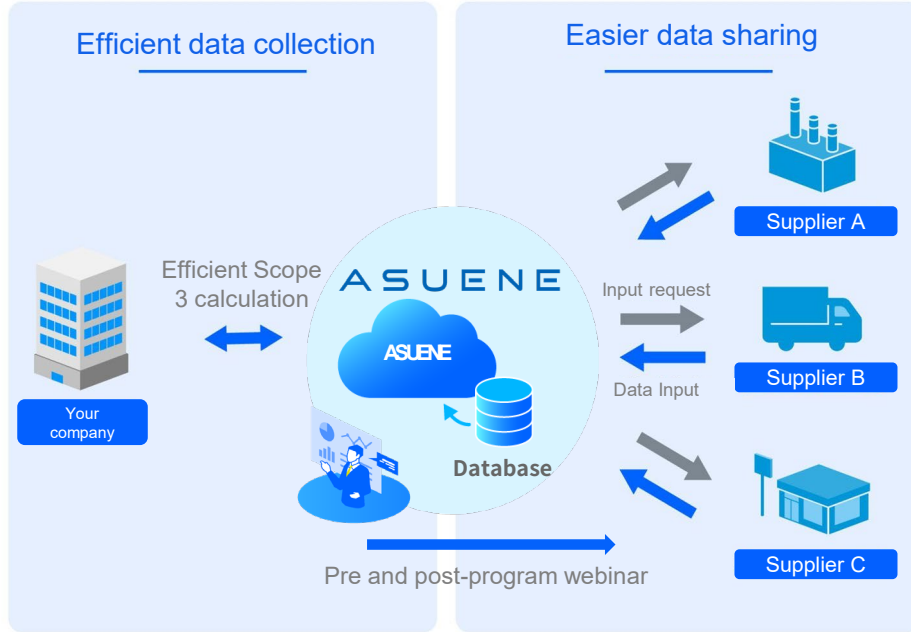
Compare the progress month on month



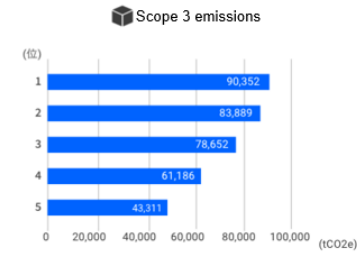
Data collection

Check the data accuracy easily by looking at data collection rate

[Key Feature 1] Supply chain Data Collection

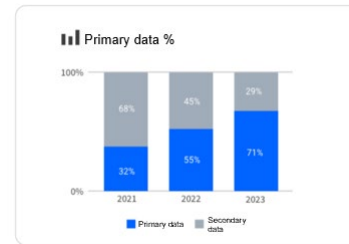


Scope 3 and Supply Chain Management



Scope 3 emissions top 10

1	All Emit Pte Ltd.	90,352 tCO2e
2	Blasting Oil Pte Ltd	83,889 tCO2e
3	C Company LLC	78,652 tCO2e
4	D DataCenter	61,186 tCO2e
5	E-nergy Pte. Ltd.	43,311 tCO2e
6	Freight Fantasy	42,904 tCO2e
7	Gas company	40,387 tCO2e
8	Hydro Gen Pte. Ltd.	38,961 tCO2e
9	InnovaLight Pte Ltd	36,298 tCO2e
10	J-renewable LLC	34,298 tCO2e



[Case Study 1] Supply chain Data Collection (Financed Emissions)

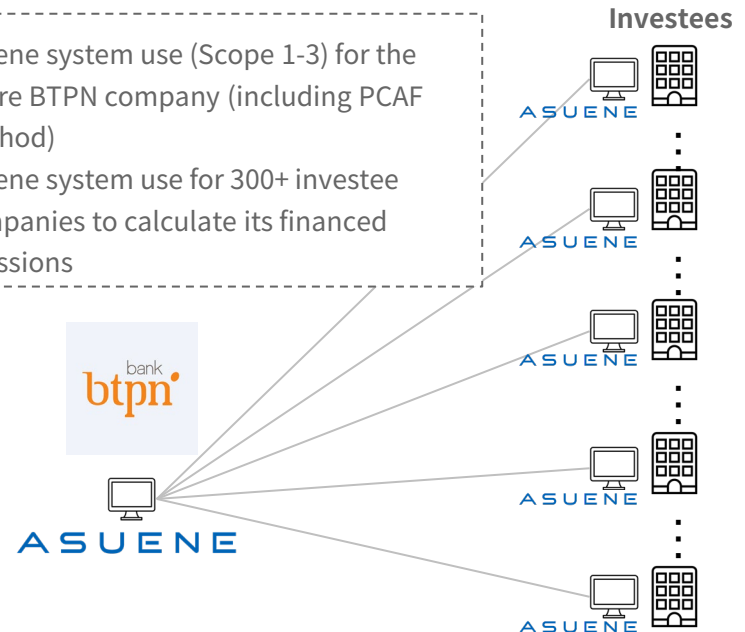
Supporting Bank BTPN's entire company's emissions calculations (Scope 1-3) and data collection / integration from 300+ investee companies in their portfolio (Financed Emissions).



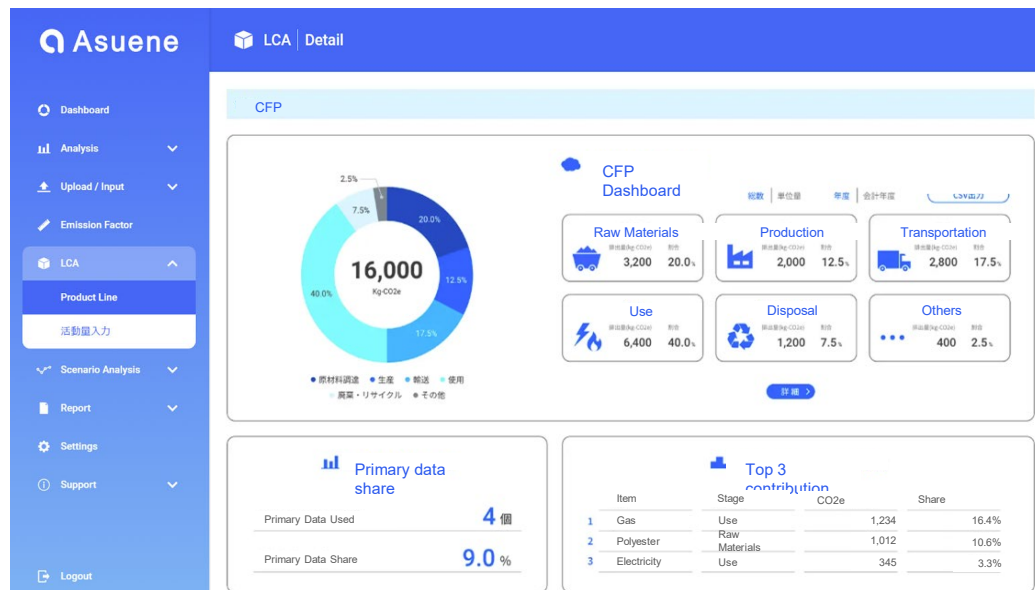
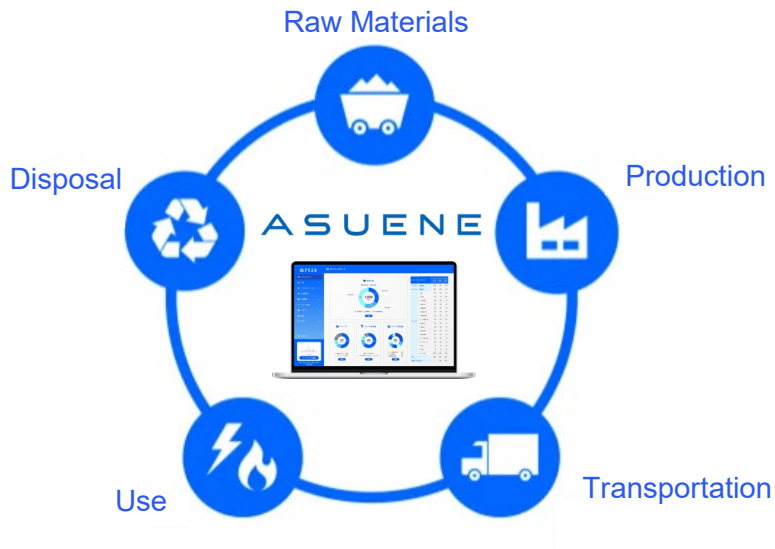
Listed Bank on IDX
IDR 23.85 Trillion (USD 1.6B) Market Cap
20,000+ employees

Asuene's SOW for BTPN

- Asuene system use (Scope 1-3) for the entire BTPN company (including PCAF method)
- Asuene system use for 300+ investee companies to calculate its financed emissions

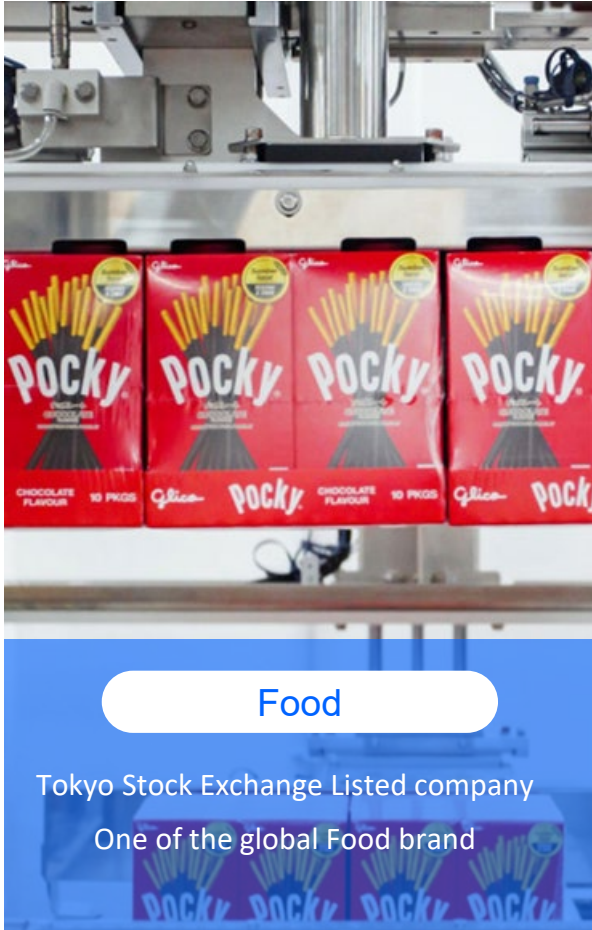


[Key Feature 2] Product Carbon Footprinting



ASUENE's CFP function follows ISO14040, ISO14044, Pathfinder Framework, GHG protocol product standard, PEF and PEFCR

[Case Study 2] Product Carbon Footprinting



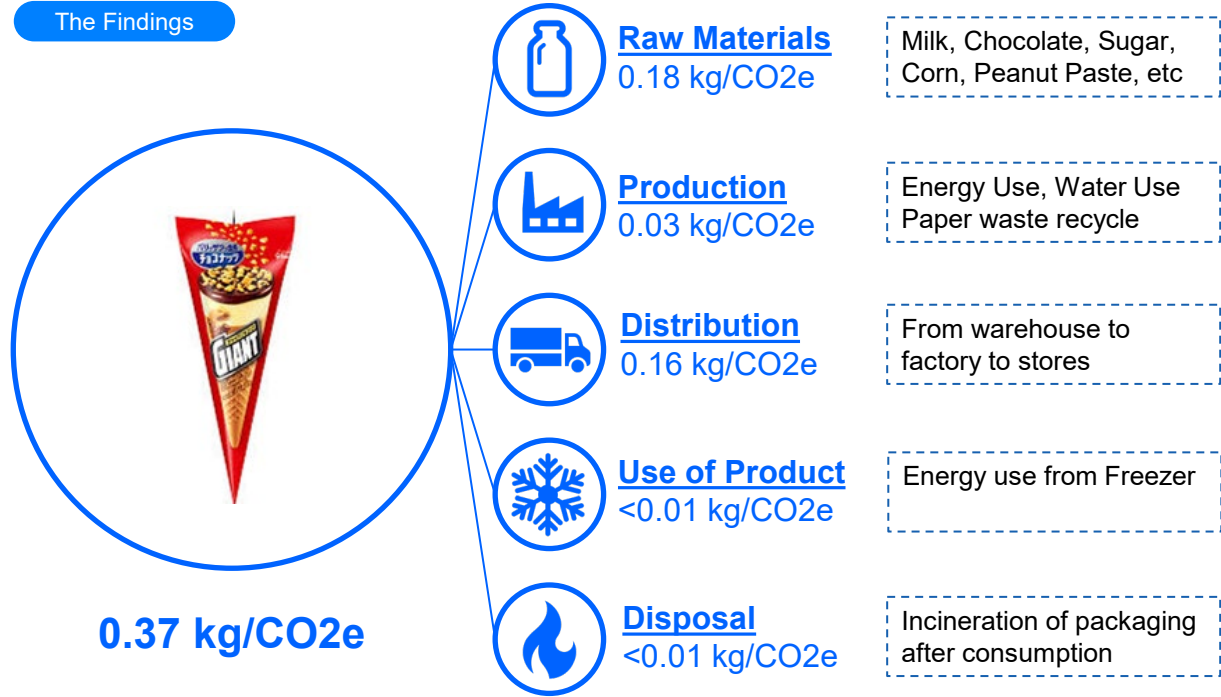
The Task

The company wanted to identify the Carbon footprint of its main SKU as they wanted to identify the hotspot and reduction areas

The Solution

Asuene conducted CFP to break down the product into life cycle stages and identified the carbon emissions happening at each stage

The Findings



[Key Feature 3] Monitoring & Tracking

Target Setting & Tracking

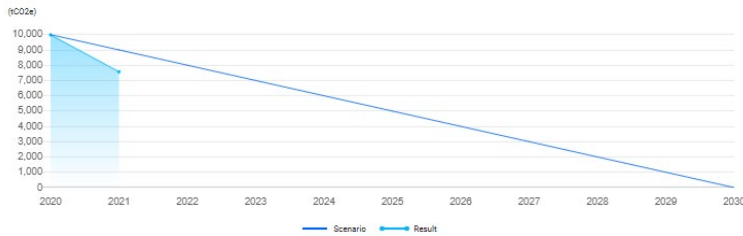
Scenario

Base Year	Achievement Year	Total Emission Amount (tCO2e)	Annual Reduction Rate (/year)	Annual Reduction (tCO2e)
2020	2030	45,000	18.18%	1,000

Result

Achievement Rate of Total Reduction Amount	243.15 %	Total Emission Amount (tCO2e)	7,569	Annual Reduction Rate (/year)	-	Annual Reduction (tCO2e)	-2,410
--	-----------------	-------------------------------	-------	-------------------------------	---	--------------------------	--------

Scenario/Result Graph

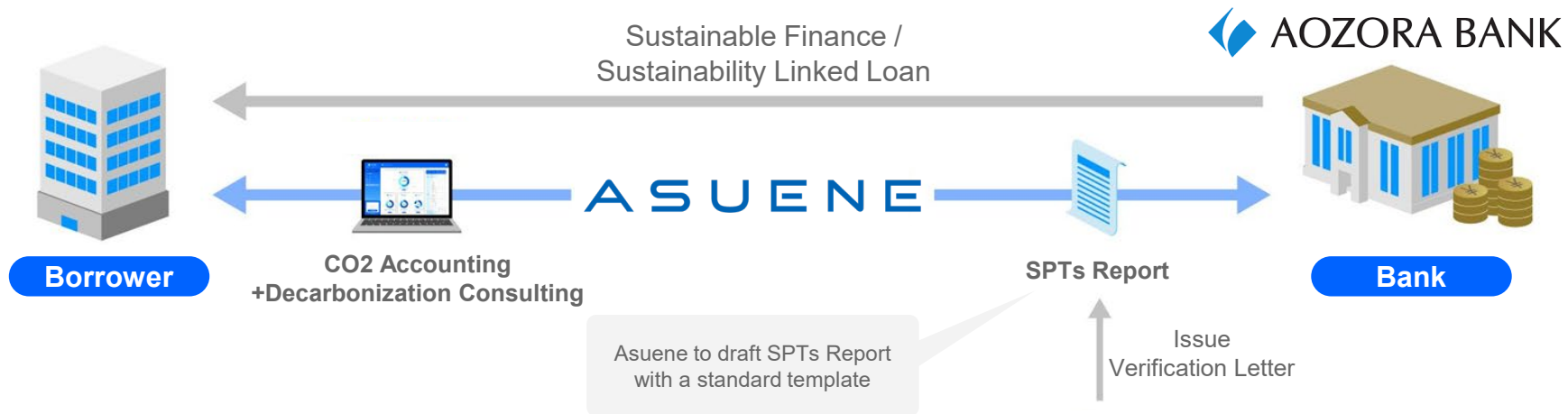


Advanced Analytics for ESG & non-ESG data



[Case Study 3] Monitoring & Tracking (Sustainable Finance)

With ASUENE, banks and borrowers can easily arrange Sustainable Finance schemes.



40+ Banking Partners

Bank of Yokohama NORINCHUKIN RESONA SHIZUOKA BANK Bank of NAGOYA
TOTTORI BANK THE HOKURIKU BANK SHIGA BANK AOZORA BANK

R&I
Rating Agency

[Key Feature 4] Offset and Reduction

Offset and reduction



Target organization **Required**

Name **Required**

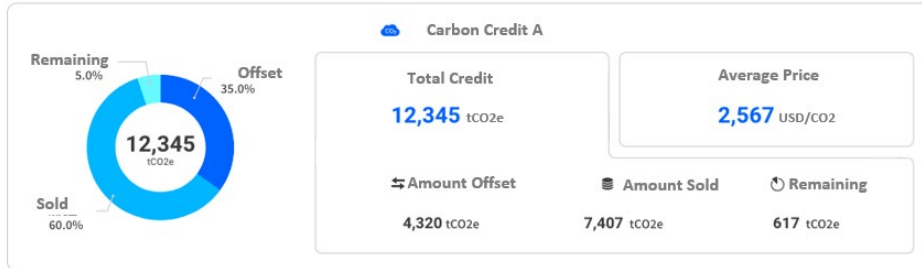
Target year **Required**

Offset type **Required**

Purchased amount **Required** kWh

Invalidating factor **Required** kWh

Purchase price per unit **Optional**



ASUENE's Support



- Credit Strategies
- Renewable Energy Strategies
- Credit/Recs Sources
- Offset Strategies



[Case Study 4] Offset and Reduction

Partnership

ASUENE



Carbon Accounting Consultation



GoNetZero™

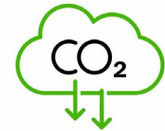


Renewable Energy Certificate

Customer



Measure Scope 1-3 emissions;
=> Analyze;
=> Offset;
=> Report



[Key Feature 5] Data Upload & Automation

Invoices/Receipt

Use of AI-OCR to capture documents and visualize data **accurately** and **efficiently**



CSV – Multiple source data

Streamline complicated data into a **simple CSV** to upload Scope 3 data at once

Source name	Business 1	Business 2	Business 3	Business 4	Business 5	Business 6	Business 7	Business 8	Business 9	Business 10	Business 11	Business 12	Business 13	Business 14	Business 15	Business 16	Business 17	Business 18	Business 19	Business 20
Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity	Electricity
200 kWh	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

API Integration

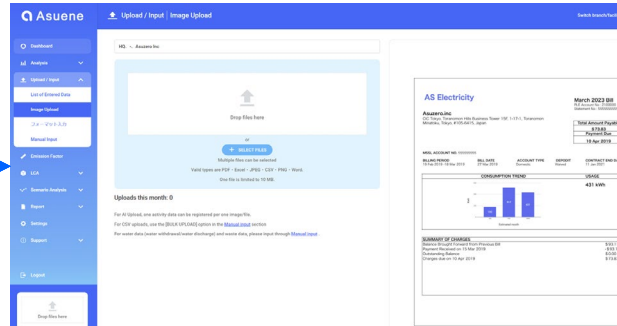
Connect any software to seamlessly upload data

ERP

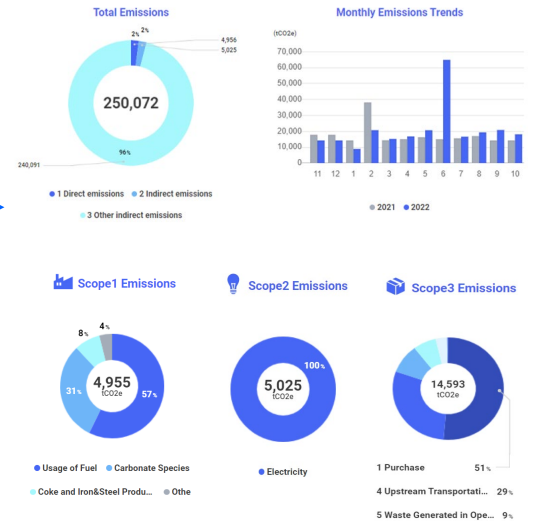
IOT

EMS

Easy one-step Upload

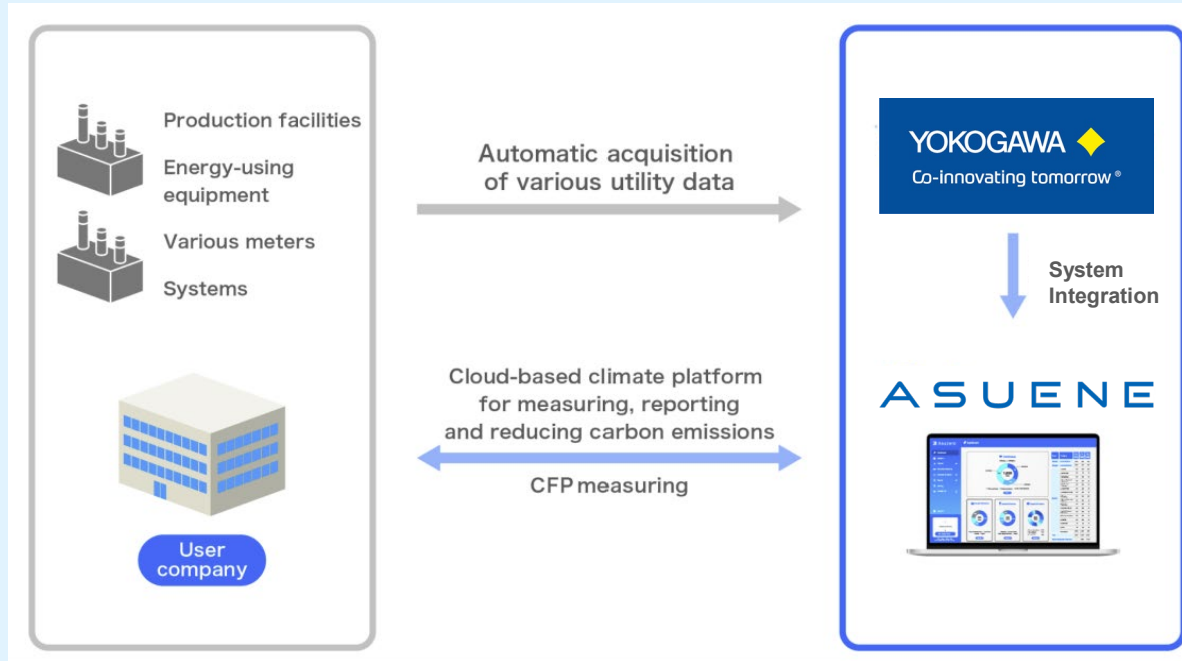


GHG Emissions output



[Case Study 5] Data Upload & Automation (System Integration)

YOKOGAWA DCS x Asuene



Achieve carbon neutrality with our partners



ASUENE