

# Klimaregnskap: hva, hvorfor og hvordan (med fokus på hvordan)

Marte Strand, daglig leder og klimarådgiver, Happy Projects

HAPPY PRO JECTS

Marte Strand

Daglig leder og klimarådgiver Happy Projects

e: marte@happyprojects.no w: happyprojects.no

> Book møte: <u>calendly.com/</u> <u>happyprojectmeetings</u>



#### **Marte Strand**

Hjelper bedrifter raskt i gang med klimaarbeid og klimaregnskap | happypro...



<u>linkedin.com/in/martestrand</u>



- 1. HVa?
- 2. Hvorfor?
- 3. Hvordan.



1. HVa?



#### Klimaregnskapet viser mengden CO2 bedriften slipper ut per år.

Aktivitet og mengde \* utslippsfaktor = utslipp

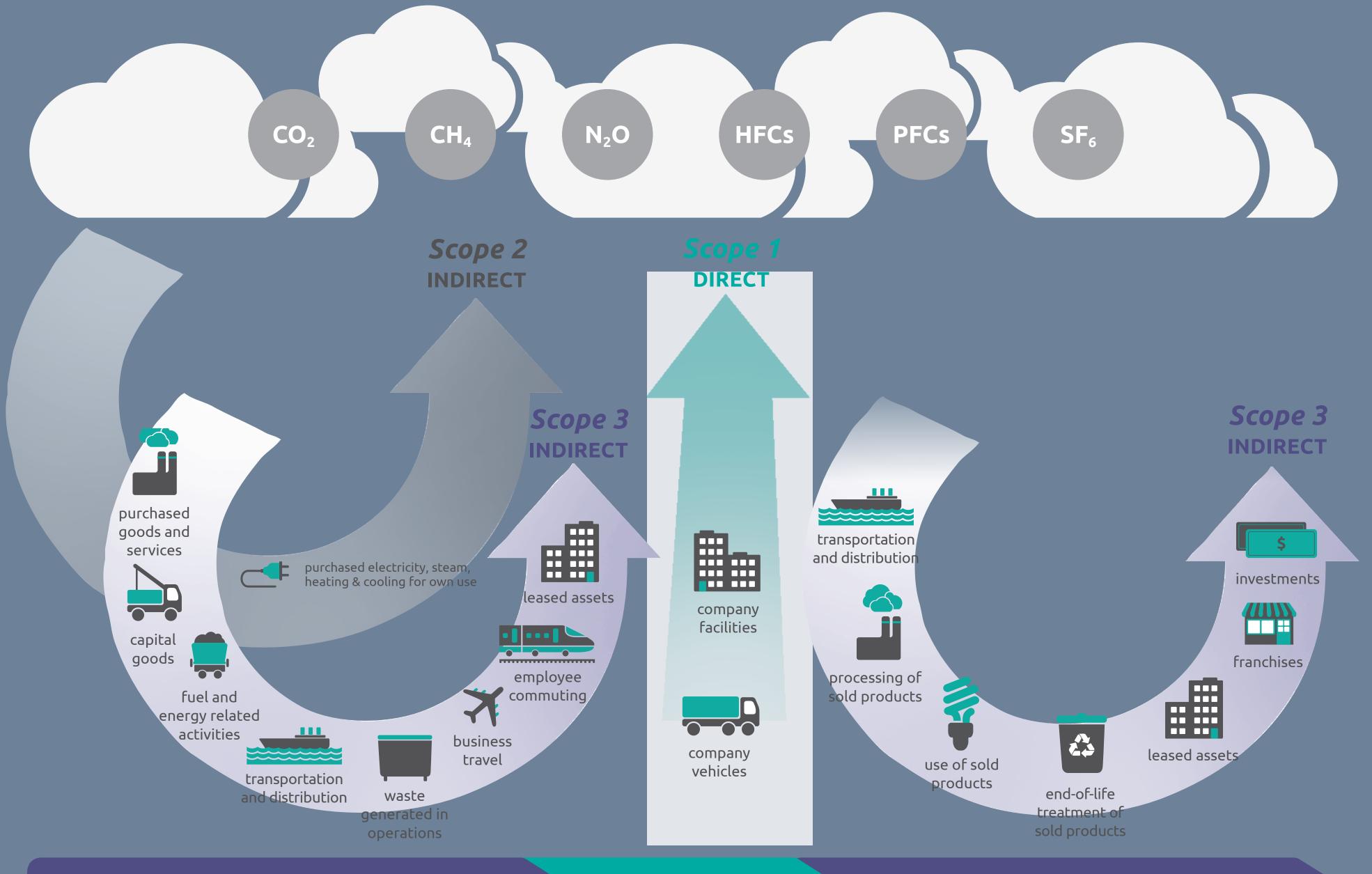
1 pers fløy økonomiklasse t/r Oslo-Wien

2775km/~286kg flydrivstoff

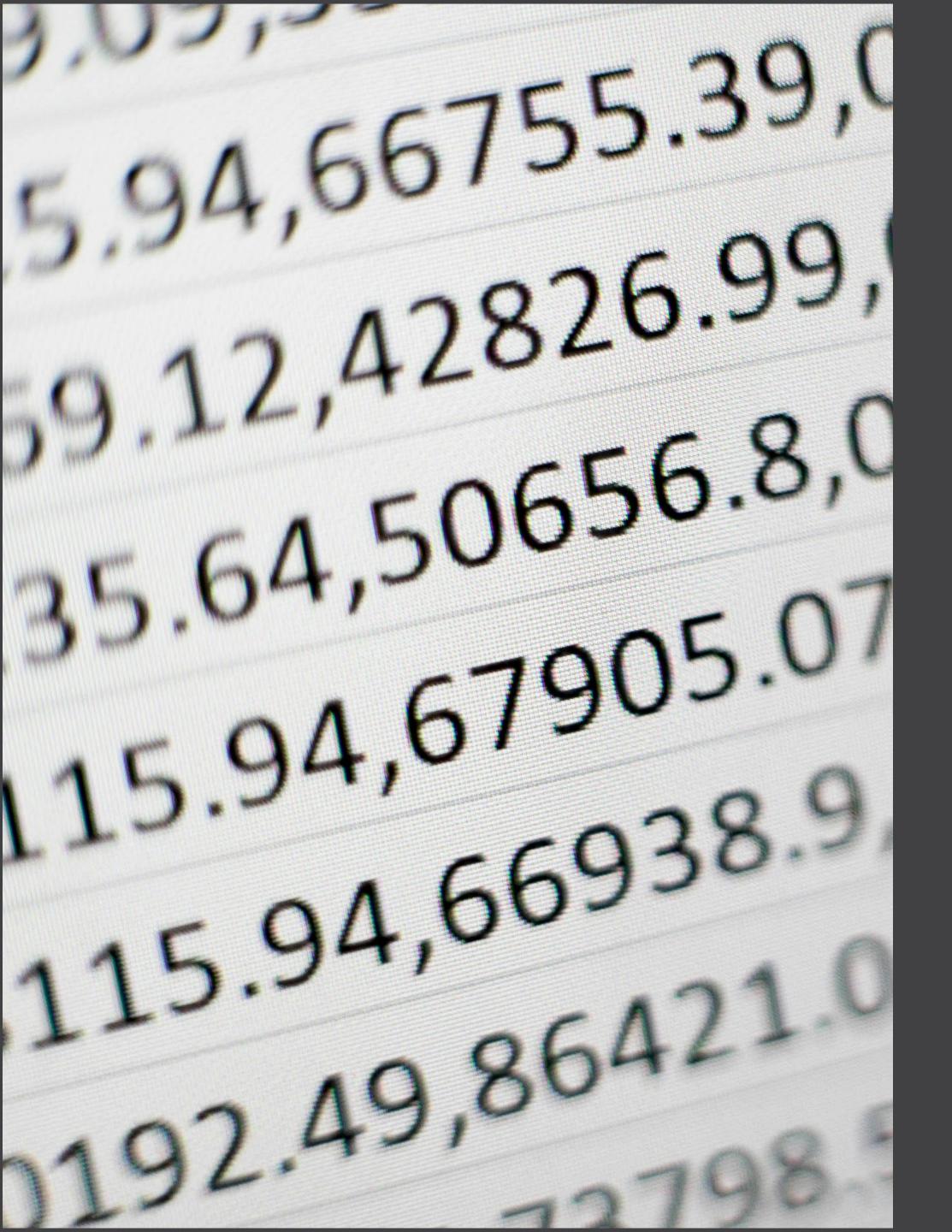
\* utslippsfaktor

= antall kg Co2e

Figure [1.1] Overview of GHG Protocol scopes and emissions across the value chain



6





Må være digitalt lesbart og sporbart

Skal revideres av revisorer





Sidestilles med finansielt regnskap



## 2. Hvorfor?



## EUs bærekraftsdirektiv, *CSRD*Norsk regnskapslov Kunder Investorer



## Environment

Social

Covernance



50% strategier, handlingsplaner etc.
50% datapunkter (540 under Environment som skal inn i klimaregnskapet)



## 3. Hvordan



#### Oppskrift:

- 1. Identifiser dataen
- 2. (Automatisert?) datafangst
- 3. Normaliser/standardiser/strukturer dataen
- 3.5 Koble dataene med utslippsfaktoren (automatisk?)
- 4. Regn ut utslipp
- 5. Analysering og rapportering
- 6. Redusér utslipp

Finnes dataen ikke digitalt? Digitaliser dataen. Se deretter punkt 1



3.1 Microsoft sitt univers

3.2 Business Central
Sustainability Management

3.3 ISV-løsninger



- 1. Pris?
- 2. Automatisering i alle steg?
- 3. Utslippsfaktorer tilgjengelig?

IDC recognizes Microsoft as the leading provider of carbon accounting and management apps. Read the IDC report

#### Microsoft Cloud for Sustainability

Data and AI capabilities to help you transform for the future using environmental, social, and governance (ESG) data intelligence.

Drive insights with Microsoft Sustainability Manager—now with Microsoft Copilot (Preview).

Try Premium for free

Watch overview



Overview

Capabilities

Solutions

Success stories

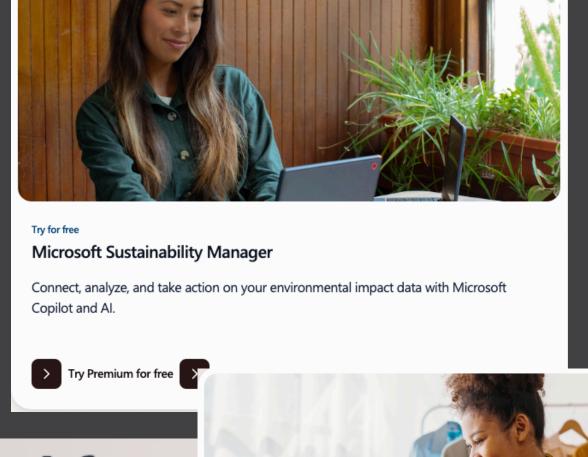
Resources

Partners

Industry





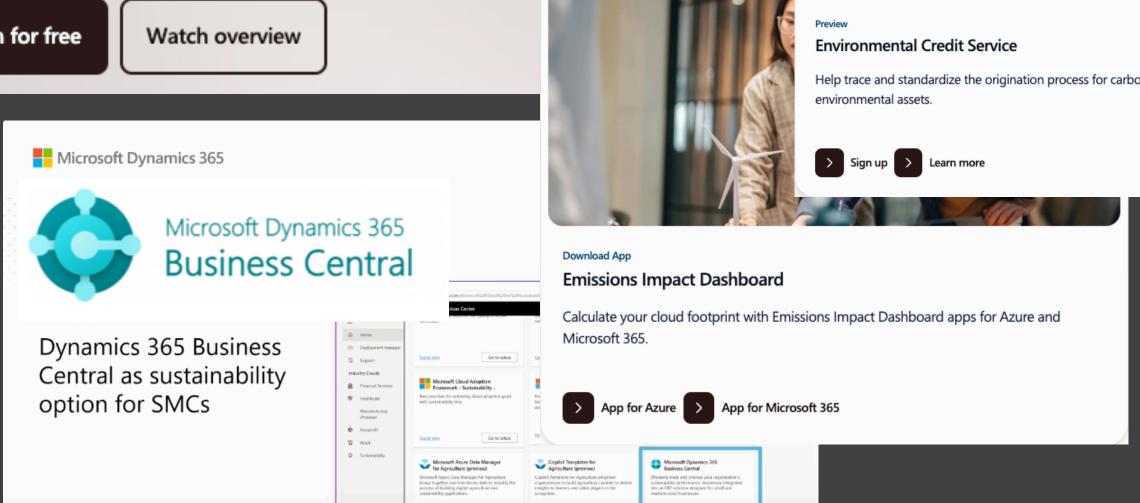


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Data and AI capabilities to help you transform for the future us environmental, social, and governance (ESG) data intelligence.

Drive insights with Microsoft Sustainability Manager—now with Copilot (Preview).

Try Premium for free



CSRD template in Microsoft Purview Compliance Manager Prepare for the Corporate Sustainability Reporting Directive (CSRD) by collecting required

#### Sustainability data solutions in Microsoft Fabric

Build a comprehensive ESG data estate, improve data accuracy and visibility, and simplify

Help trace and standardize the origination process for carbon credits and other

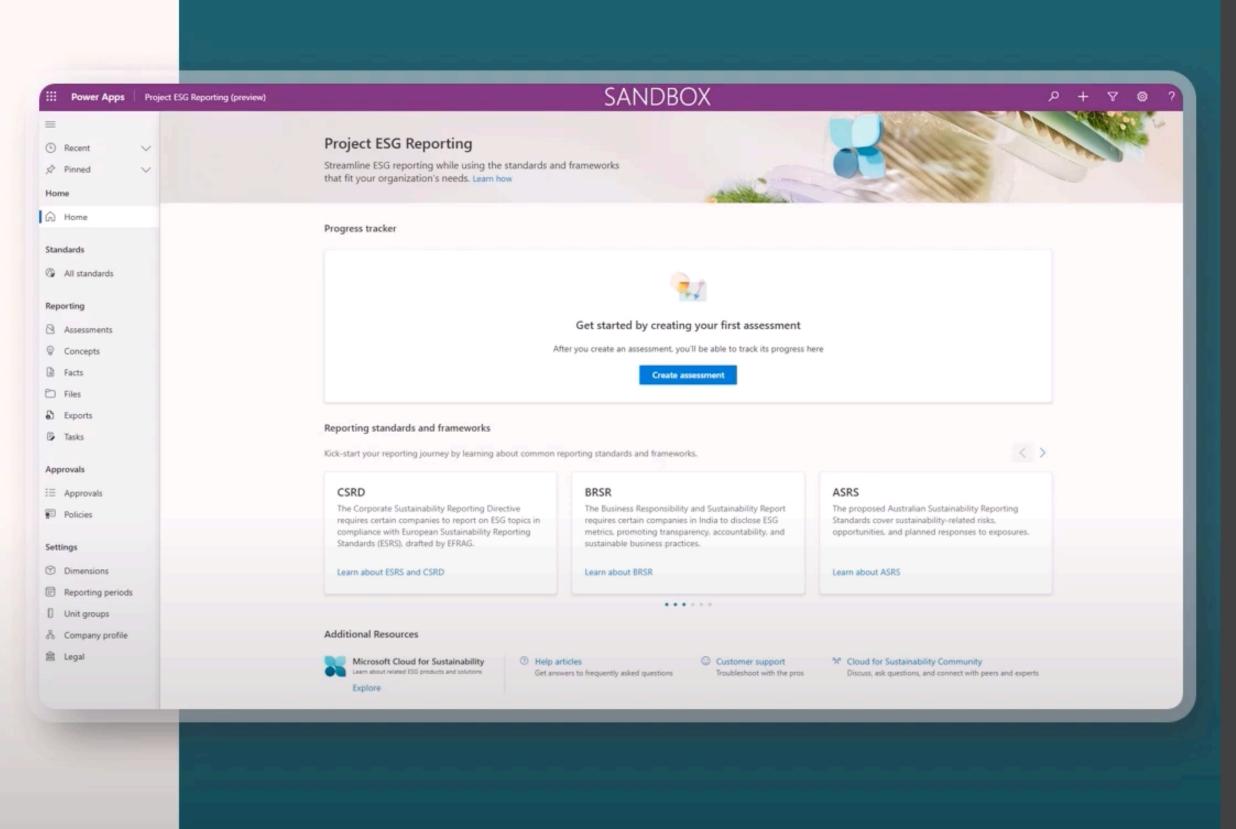




📑 Simplify processes with Project ESG Reporting (preview) - Technical Summit November 2024

A collaborative, end-to-end ESG reporting solution that reduces the complexities of preparing and managing disclosure reports for multiple standards and frameworks

- Review predefined standards and frameworks
- Bring your own standard
- Prepare and generate disclosure reports
- Reuse responses across reports
- · Assign and track tasks to users
- Review progress and export your responses



#### Microsoft Sustainability Manager

Record, report, and reduce your environmental impacts using the power of data and Al.

New! Quickly retrieve answers from data with Microsoft Copilot (Preview).



#### Microsoft Sustainability Manager Essentials

Basic tier US\$4,000 per tenant, per month

- Foundational carbon, water, waste data management
- Calculation models for Scopes 1, 2, and multiple Scope 3 emissions categories
- Dataverse capacity: 10 GB<sup>2</sup>





#### Microsoft Sustainability Manager Premium

Everything in Essentials, plus more: US\$12,000 per tenant, per month

- Carbon management for all of Scope 3
- Advanced water and waste data management (Preview)
- ESG value chain solution (Preview)
- Al-powered insights and Microsoft Copilot (Preview)
- Product carbon footprint management
- Al Builder: 25K credits
- Dataverse: 50 GB<sup>2</sup>





- 1. Pris?
- 2. Automatisering i alle steg? 😌
- 3. Utslippsfaktorer tilgjengelig? 🚳



3.1-Microsoft sitt univers

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#### **Sustainability for SMBs**

**Ecosystem of SMB sustainability solutions** 

Microsoft Dynamics 365 | ISV partners

Dynamics 365
Business Central

Embedded Sustainability Features

Exposed APIs – ready for integrations

ISV solutions (vertical and horizontal solutions, emission factors integrations)

Microsoft Dynamics 365 Business Central data model

**Built on the Microsoft Cloud** 



# Dynamics 365 Business Central Launch Event

2024 release wave 2





#### Microsoft Sustainability for SMBs in action



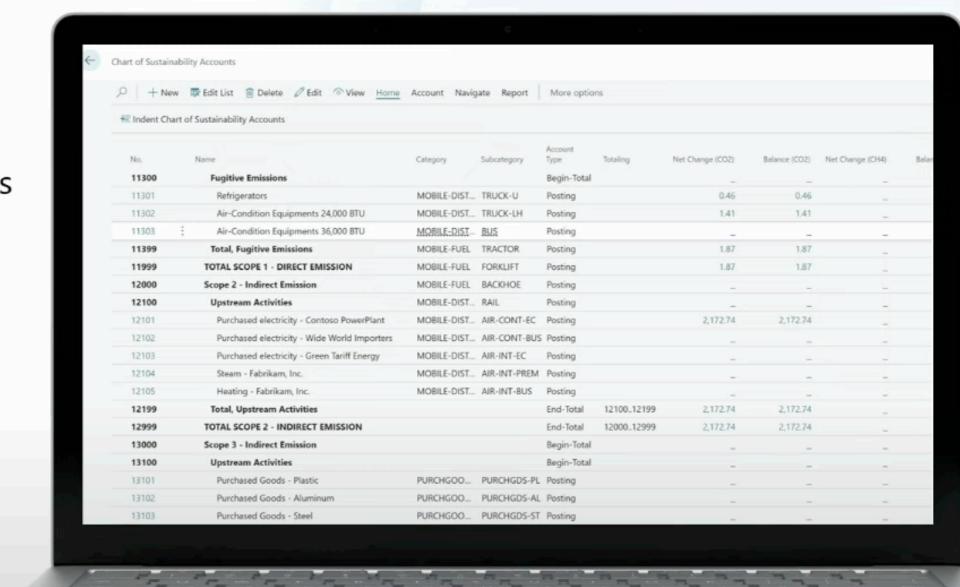


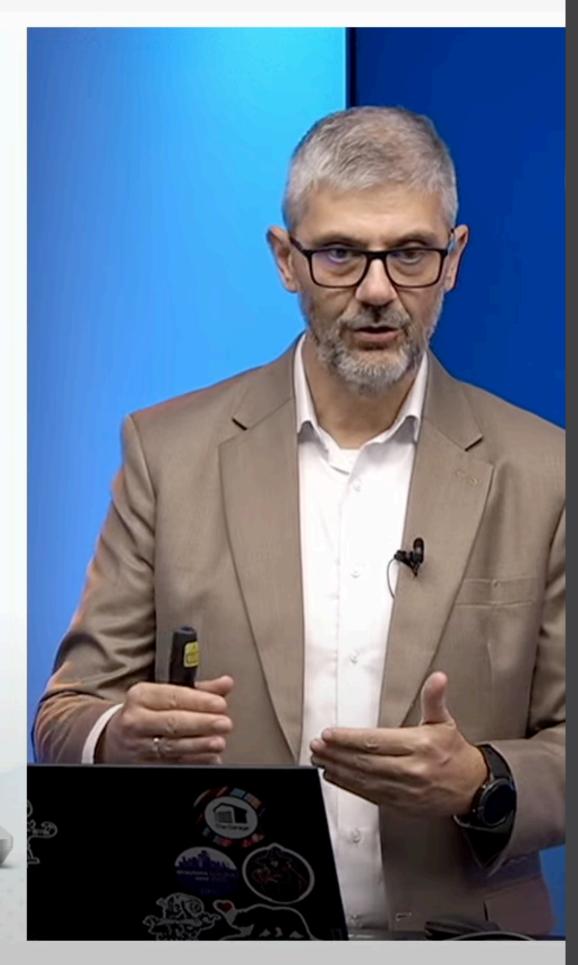


#### Introduction - How did we start

#### Just fundamentals:

Chart of Sustainability Accounts Categories and Subcategories with formulas Sustainability Journals Sustainability Ledger Entries 3 Excel layout reports Demo Data

















Rull for å få mer informasjon













#### New features in this release

New Role Center – Sustainability Manager

Forecast Elements – Scorecards and Goals

Purchase Documents Connectivity:

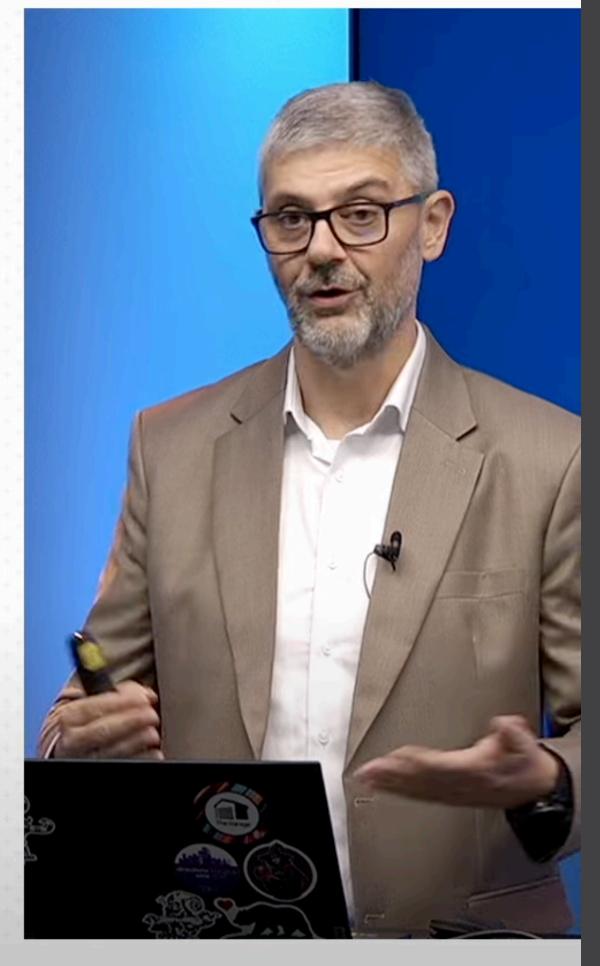
Recording emissions directly in Purchase Invoice or Order **Purchase Carbon Credits** 

#### **New Calculations:**

▶ 3:38 / 22:35 • New features >

Emissions recalculation to carbon equivalent (CO<sub>2</sub>e) Internal Carbon Fee calculation and recording

New Reporting Capabilities – Sustainability in Financial Reports Additional – Sustainability Certificates Upcoming in 25.1 – Updated Demo Data Tool















## Navigate with the modern Sustainability role center

#### Actions to all connected types of:

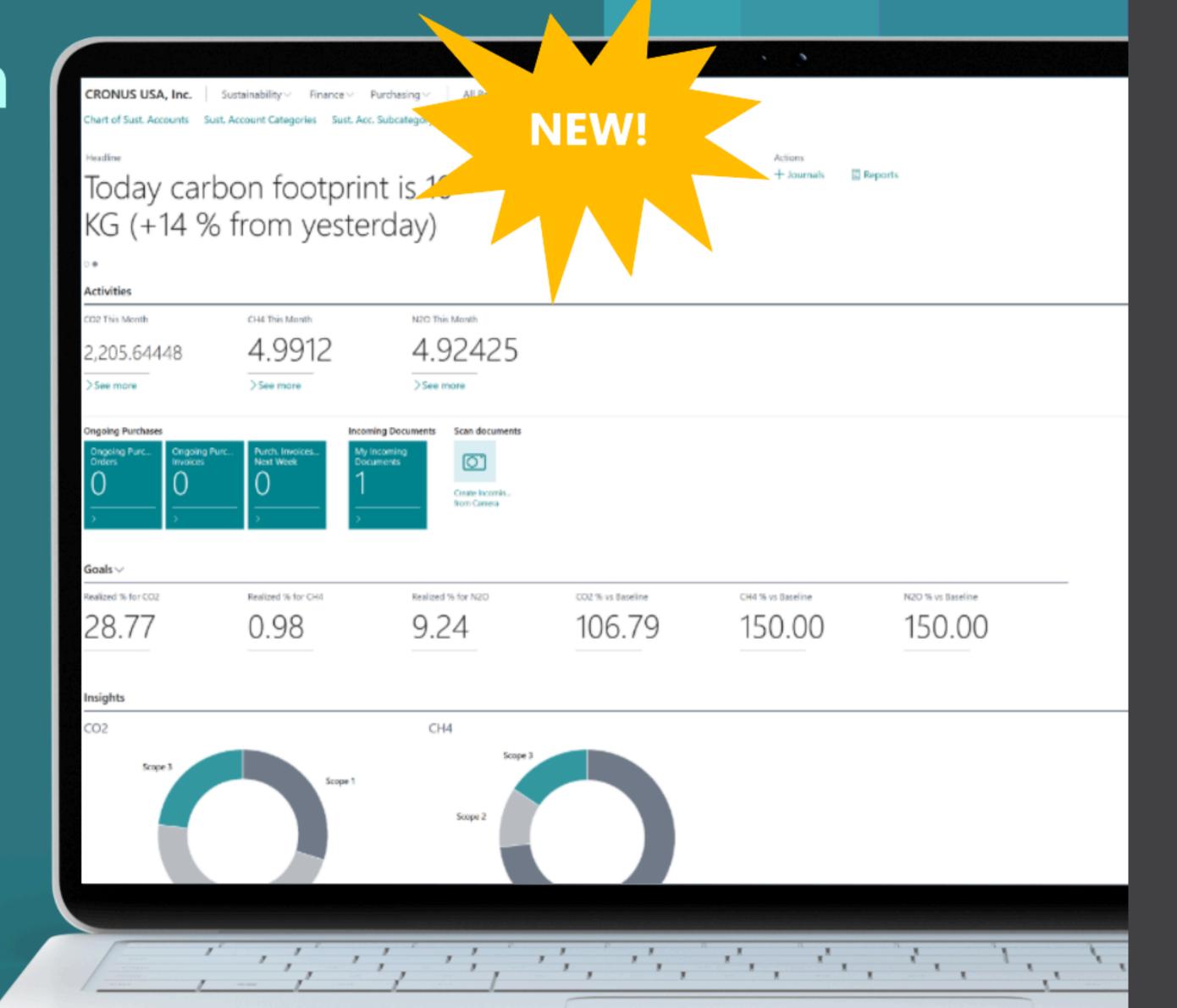
- Master data
- Documents and Journals
- Reports and analysis

#### Daily and Monthly KPIs

- Daily and monthly emissions
- Realized emissions vs baselines
- Realized emissions vs targets
- Tracking all three emissions

#### Insights

Charts with emissions per scope and gas



## Use the Chart of Sustainability Accounts

Chart of Accounts for Sustainability needs

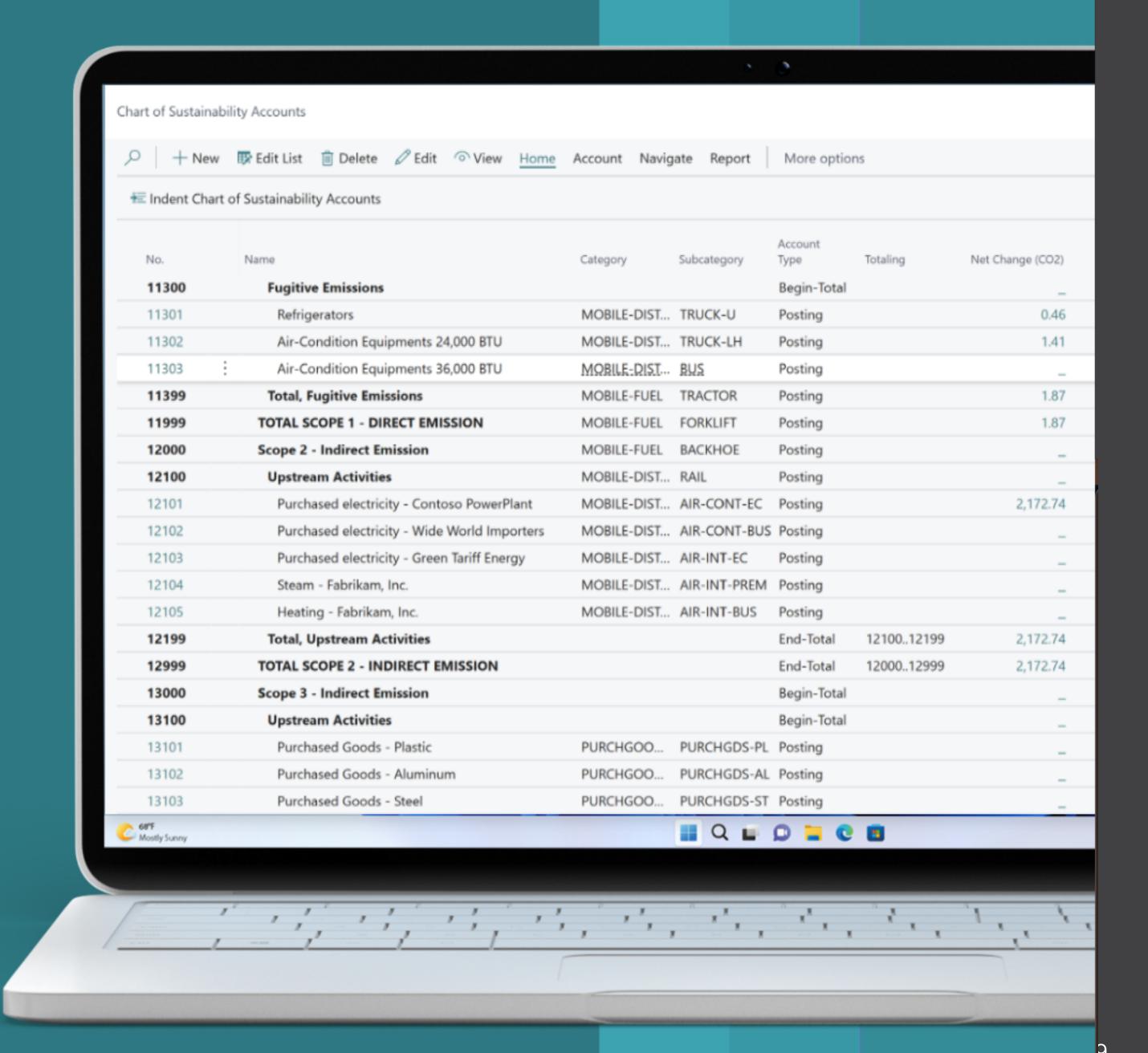
Tracking three different emission types

Sust. Account Categories:

- Emission Scope determination
- Emissions for tracking
- Types of calculations/formulas

Sust. Account Subcategories:

Emission Factors



#### Track emissions with Sustainability Journals

Journal for recording all emission transactions

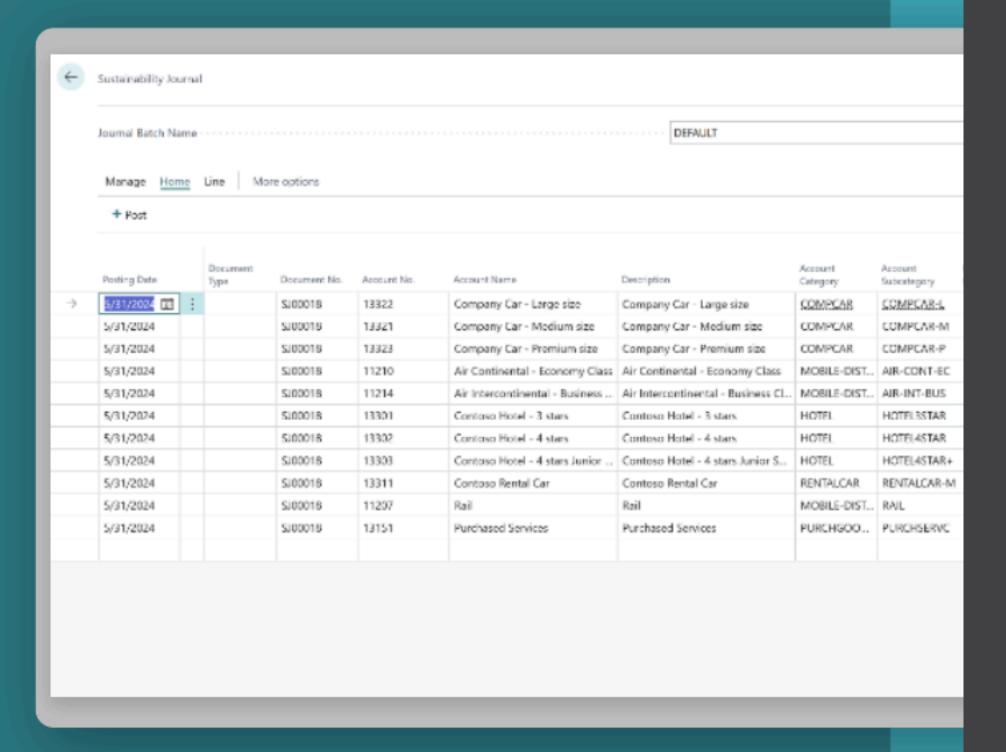
Posting to Sustainability Ledger Entries

Different type of entering data

- Amount based on formulas and input parameters
- Manual fix amounts

Batches per scope or common

Checking lines for potential issues



#### Track emissions with Purchase Documents

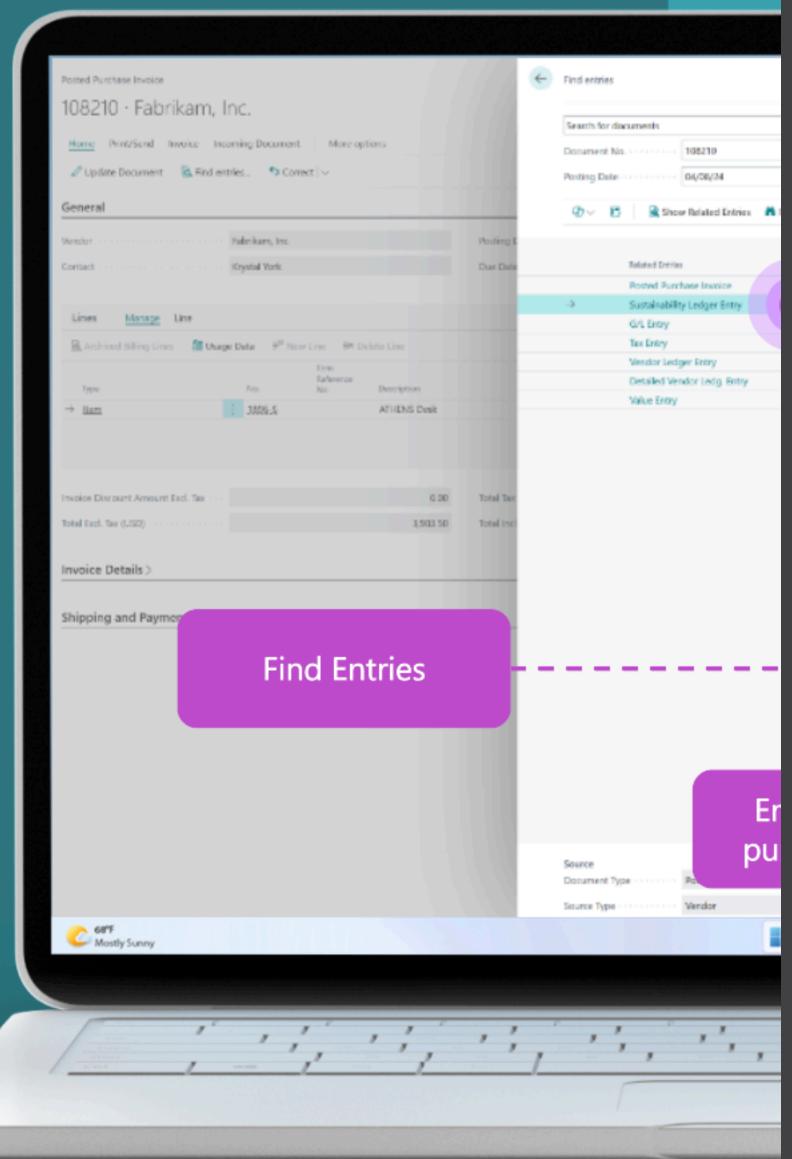
You can collect your emissions directly in the purchase document

- Purchase Invoice
- Purchase Order
- Purchase Credit Memo

Avoid duplicate data entry by consolidating financial and ESG data in one place

**Enabled additional statistics** 

Company can buy **Carbon Credits** for decreasing their emissions



Plan with Scorecards and Goals

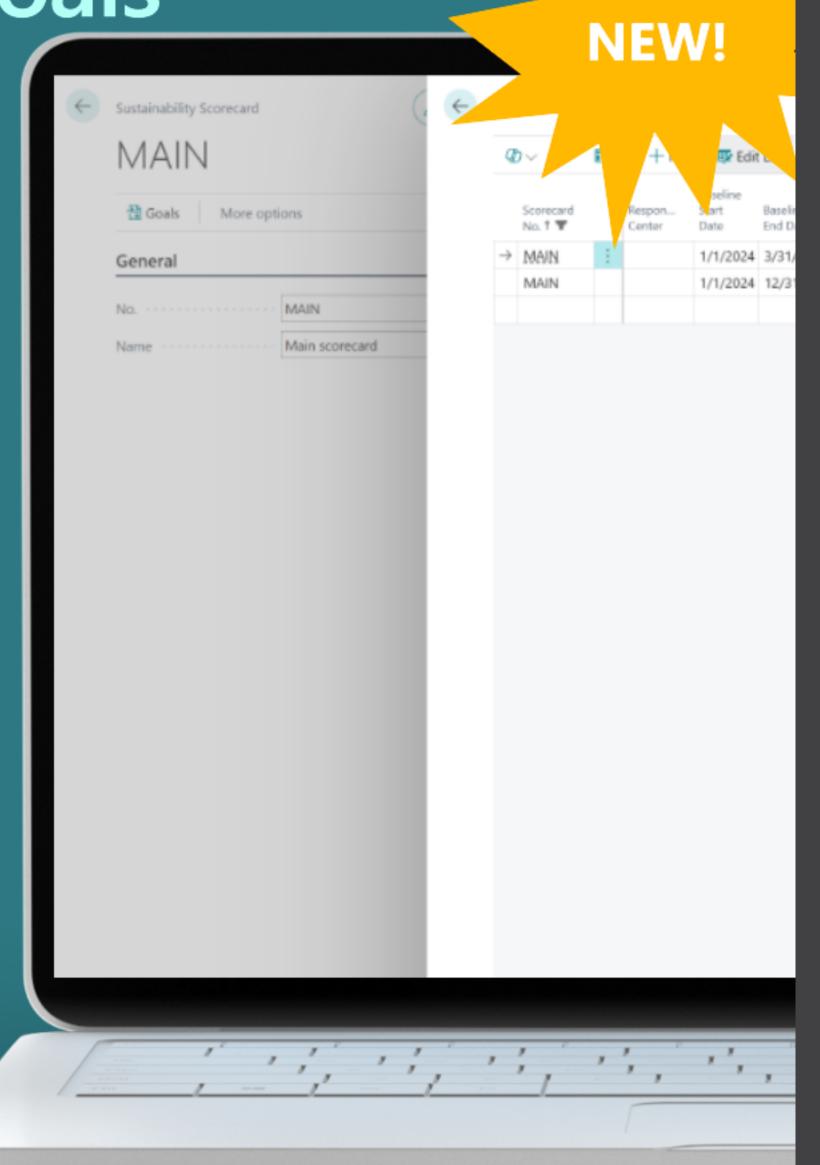
You can set up more scorecards with different owners

Configure more Goals per each of Scorecards:

- Baseline and Current periods
- Baseline and Current values calculated
- Target values as a forecasts

One Goal can be main for the Company

Users have KPIs based on main Goals on the role center





- 1. Pris?
- 2. Automatisering i alle steg?
- 3. Utslippsfaktorer tilgjengelig?



21 V.1-Microsoft sitt univers

3.2 Business Central
Sustainability Management

3.3 ISV-løsninger



#### Hvor finnes dataene?

Fagsystemer, internt og eksternt, ERP-systemet, logistikk- og lagersystemer, prosjektdokumentasjon, strømselskapet, reisebyrået, post-its, excelark



#### Hvor finnes dataene?

Fagsystemer, internt og eksternt, ERP-systemet, logistikk- og lagersystemer, prosjektdokumentasjon, strømselskapet, reisebyrået, post-its, excelark



ERP + klimaverktøy m/ utslippsfaktorer



Business Central og Finance & Operations

 $\vdash$ 

klimaverktøy m/ utslippsfaktorer



Økende antall løsninger og tilbydere i markedet.

Ingen "one size fits all".

"Vertical industry solutions"



- 1. Pris?
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## Sustainability for SMBs

**Ecosystem of SMB sustainability solutions** 

Microsoft Dynamics 365 | ISV partners

Dynamics 365
Business Central

Embedded Sustainability Features

Exposed APIs – ready for integrations

ISV solutions (vertical and horizontal solutions, emission factors integrations)

Microsoft Dynamics 365 Business Central data model

**Built on the Microsoft Cloud** 

↑↓ Sort By: Best match

Apps ~

Categories V

Industries  $\vee$ 

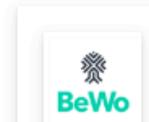
Consulting Services V

Partners ∨

#### Search results for "co2"

Showing 99 results in apps. Clear search

#### All results



## BeWo - Automating CO2 Reporting

BeWo

Business Central

Automated CO2 calculations for Microsoft Dynamics 365 Business Central

Free trial



#### **EV CO2 Calculator**

Elbek & Vejrup A/S

Business Central

Calculate and document the carbon footprint of your products

Free trial



## CO2 Care: Smart Building for preventive Healthcare

INTEGRA

SaaS

smart air quality solution based on internet of things

Contact me



#### **ExFlow CO2 Insights**

SignUp Software AB

Business Central

ExFlow CO2 Insights for Microsoft Dynamics 365 Business Central



## ZeroC: Emissions Management App

adesso SE

SaaS

SaaS for CO2-neutral building portfolios and sustainable facility management based on Azure & Al

Contact me



## SAS® Energy Cost Optimization

SAS Institute Inc.

SaaS

SAS ECO helps to achieve a reduction of energy consumption, CO2 emissions and CO2 certificate costs.

Contact me



## energyControl | Cutting carbon emissions in...

nexocraft GmbH

SaaS

Self-learning Al-controller reducing the energy consumption & CO2 of HVAC systems by 20%



## KMD CarbonKey

KMD A/S

SaaS

Fully automated invoice based CO2 account covering all 3 scopes of the Green House Gas Protocol

## EV CO2 Calculator



#### Data-driven decarbonization with...

Zuehlke Engineering

SaaS

Energy and CO2 accounting, and measuring the effects of process changes in real time.



Free trial

#### Grundfos - Cooling as a Service

Grundfos Holding A/S

SaaS

IoT solution and AI powered algorithm that balances your chiller plant to save energy and reduce CO2





#### 3DBI

INFORMAXYZ BV



Power BI visuals

Bring spatial insight to your data.



#### RealGreen (Sustainability - Scope 3 Emission...

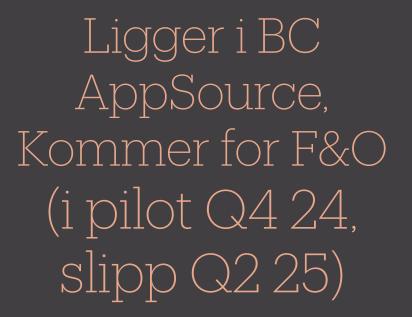
Real Variable Digital Asset Services Inc.



Sustainability Scope 3 CO2e and other environmental parameters tracking



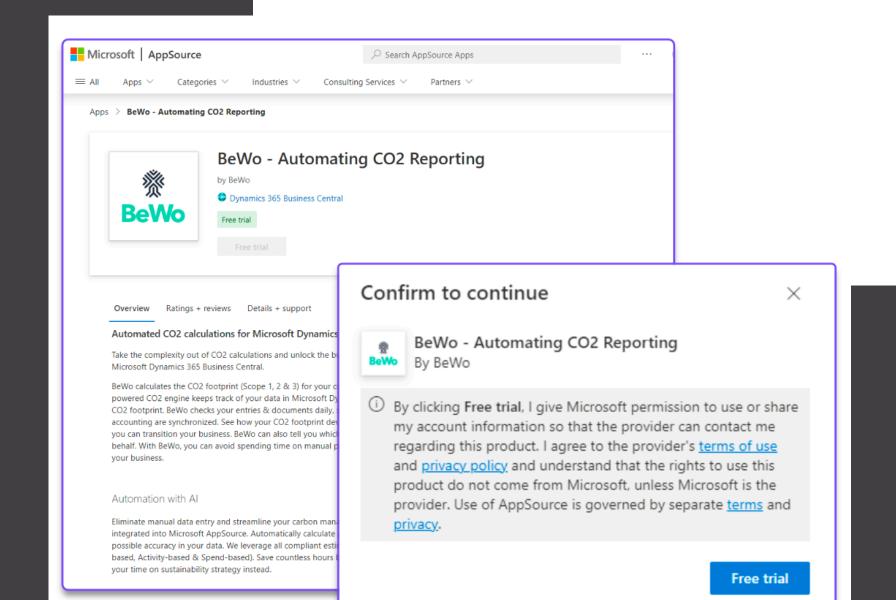


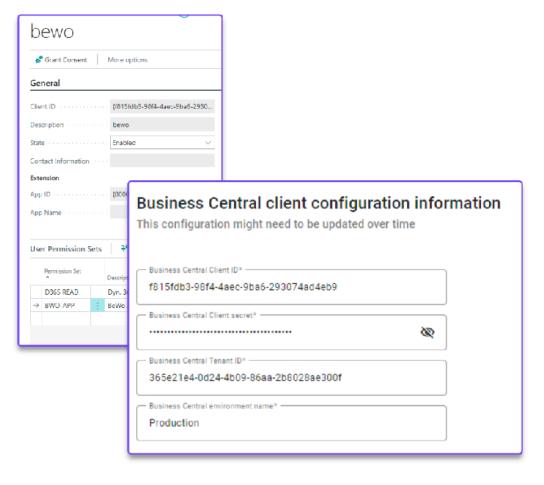






# Connect to Business Central





Connect via Microsoft Entra Application

Automatisk matching av utslippsfaktor



CRONUS UK Ltd. F ← Fuel/Bioenergy

D + New Manage Fuel/Bioeners

Code 7 Name

AVI-FUEL Aviation fuel
DIESEL-AVG Diesel

MAR-FUEL Marine Fuel

NG Natural Gas

PETROL-AVG Petrol

Customers Vendors Iten

Hi, meet

You're all set to try out

your own, or take a qu

Show demo tours

Activities

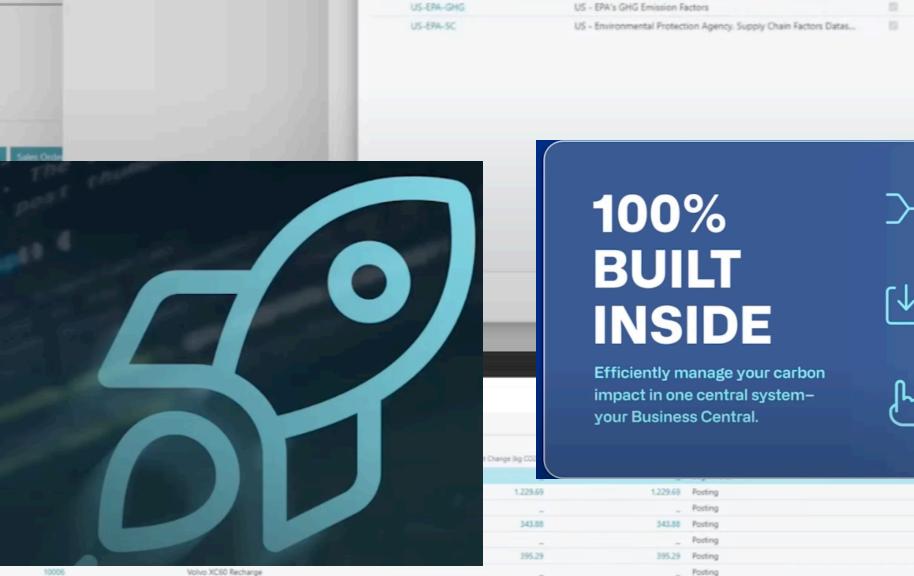
£0

Sales This Month

> See more

Ongoing Sales

Get started



Fuel · PETROL-AVG · Petrol

O V + New D Edit List ···

DK - Klimakompasset

NL - CO2emissiefactoren

Electricity - Collected by Continia

Association of Issuing Bodies - European Residual Mix

NZ - Ministry for the Environment Measuring Emissions

UK - Government Emission Factors by SIC

NZ - Auckland Council Consumption Emissions Modelling

Fuel/Bioenergy More options

Select - Emission Factor Sets

→ DEERA

DK D

ELECTRIC

**EXIOBASE** 

NZ-AUCK

UK-SIC

Manuell matching av utslippsfaktor

Continia Sustainability

2024 R2

		343.88	343.88	Posting		Electric	DE03 MNO
			_	Posting		Electric	FG08 PQR
		395.29	395.29	Posting		Plug-in Hybrid EV	HI22 STU
10006	Volvo XC60 Recharge	_	_	Posting		Plug-in Hybrid EV	JK17 VWX
19999	Total, Passenger cars	1,968.86	1,968.86	End-Total	1000019999		
20000	Transportation vehicles	_	_	Begin-Total			
20001	Volkswagen, Crafter MWB	_	_	Posting		Fuel/Bioenergy	LM09 YZA
20002	Citroen, Berlingo	_	_	Posting		Fuel/Bioenergy	NO12 BCD
20003	Dacia, Duster	_	_	Posting		Fuel/Bioenergy	PQ05 EFG
20004	Iveco. Daily	-	-	Posting		Fuel/Bioenergy	RS20 HU
10005	Nissan, Townstar	_	_	Posting		Fuel/Bioenergy	TU11 KLM
10006	Renault, Trafic LWB	_	_	Posting		Fuel/Bioenergy	VW06 NOP
29999	Total, Transportation vehicles	_	_	End-Total	20000.29999		
30000	Other vehicles	_	_	Begin-Total			
10001	Forklifts	_	_	Posting		Fuel/Bioenergy	
30002	Reach Trucks	_	_	Posting		Fuel/Bioenergy	
10003	Pallet Jacks	_		Posting		Fuel/Bioenergy	
10004	Order Pickers	_	-	Posting		Fuel/Bioenergy	
19999	Total, Other vehicles	_	_	End-Total	30000.39999		
10000	Aircrafts	_	_	Begin-Total			
10001	Falcon 900LX	_	_	Posting		Fuel/Bioenergy	G8-AIR-001
10002	Pilatus PC-12 NGX	_	-	Posting		Fuel/Bioenergy	G8-AIR-002
10003	Gulfstream G700	_	_	Posting		Fuel/Bioenergy	G8-AIR-003
19999	Total, Aircrafts		_	End-Total	40000.49999		
60000	Vessels	- :-	_	Begin-Total			
0001	Fishing boat	_	_	Posting		Fuel/Bioenergy	G8-80AT-001
9999	Total, Vessels			End-Total	50000.59999		

√Saved □ ✓

2 X

Unified experience

Effortless data import

User-friendly interface

Continia Sustainability extends standard Business Central

Seamlessly import purchase invoices, G/L account, and item ledger entry data, etc. into environmental journals.

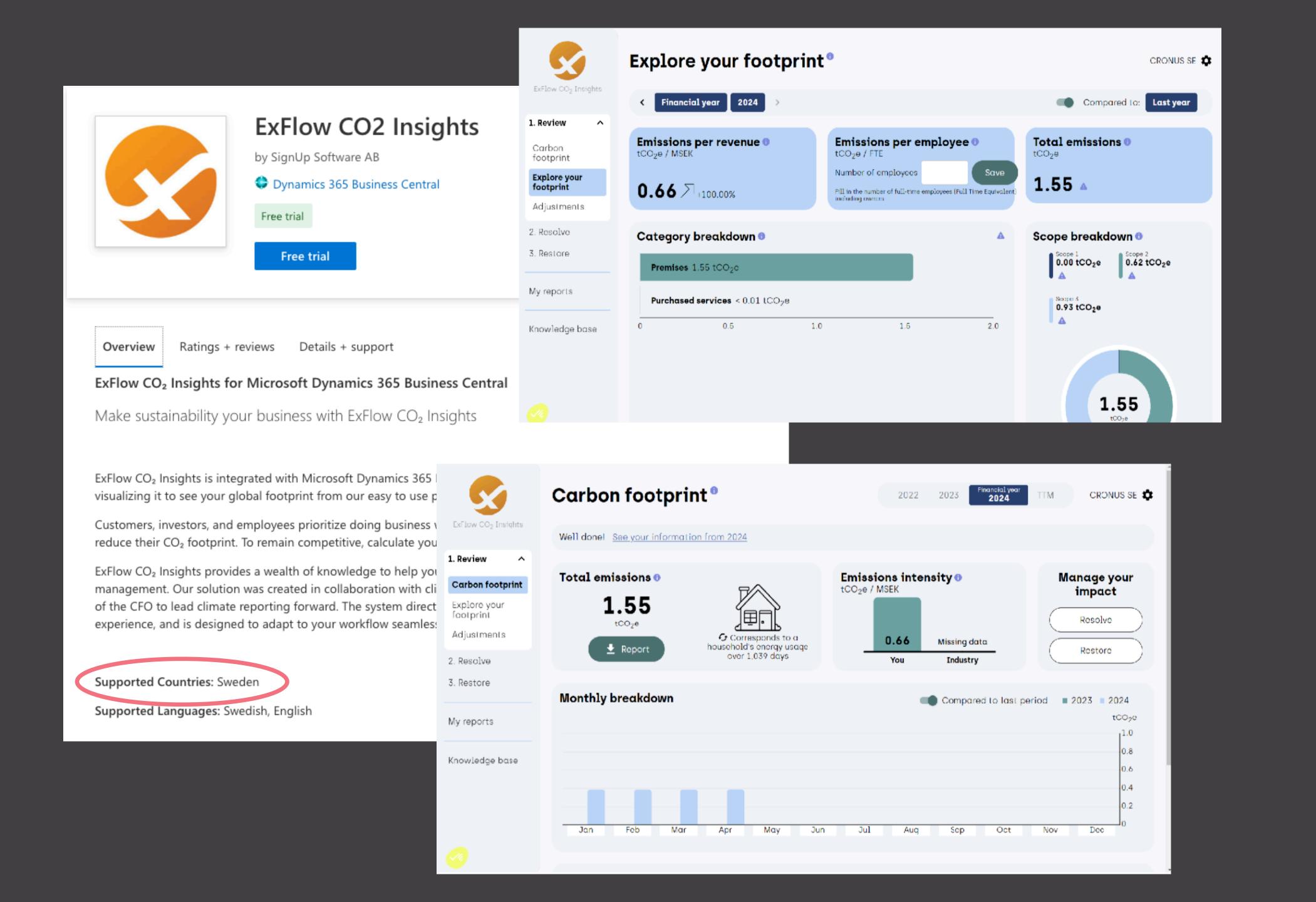
Keep your usual way-of-working with familiar role center

ABS1 XYZ BC14 JKL e V

journals, navigation panes, and data input features.

Fuel/Bioenergy

Managed by Continia





- 1. Pris?
- 2. Automatisering i alle steg? 🗸
- 3. Utslippsfaktorer tilgjengelig?



regiontilpasning og regiontilgjengelighet automatiseringsnivå/mengde manuell jobb pris - SMB eller Enterprise? antall og kvalitet på utslippsfaktorer (region, ny/gammel m.m) integrasjon m/ ulike ERP-systemer m.fl rapportering opp mot ulike standarder kompleksitet tilgang på dokumenter i blob storage sikkerhet/kryptering bransjerelevans KPI'er dashboard custom/standard



Energi.ai, ESG Tracker,
MoreScope, Position Green,
Ducky, Ignite

Coolset, Normative, Greenly,
Ignite, Ducky, envizi, Watershed,
Persefoni, Sinai, SmartTrackers,
Plan A, Emitwise, Sweep,
Salesforce Net Zero Cloud, Vaayu,
Pledge, Sphera m.fl.





Microsoft sitt univers



Business Central Sustainability Management

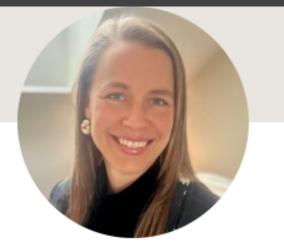


ISV-løsninger



- 1. For å få kjapt og bra klimaregnskap finn en ISV-partner med et skreddersydd verktøy.
  - 1. Sjekk ut aka.ms/BCESG
- 3. Sjekk om det du har hørt nå er nyttig for din bedrift.





## **Marte Strand**

Hjelper bedrifter raskt i gang med klimaarbeid og klimaregnskap | happypro...



Takk for meg!

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