□ DocStudio

Supplier Scope 3 Emissions Reporting -Supporting Multiple Customer Requirements for Top Down and Bottoms Up Reporting

GHG reporting in the United States

Since 2009, the United States has required facilities emitting at least 25,000 metric tons or more of carbon dioxide to report their greenhouse gas emissions to the Environmental Protection Agency (EPA) every year.



ISO 14064-1:2018: Greenhouse gases — Specification

This document specifies principles and requirements at the organization level for the quantification and reporting of greenhouse gas (GHG) emissions and removals.

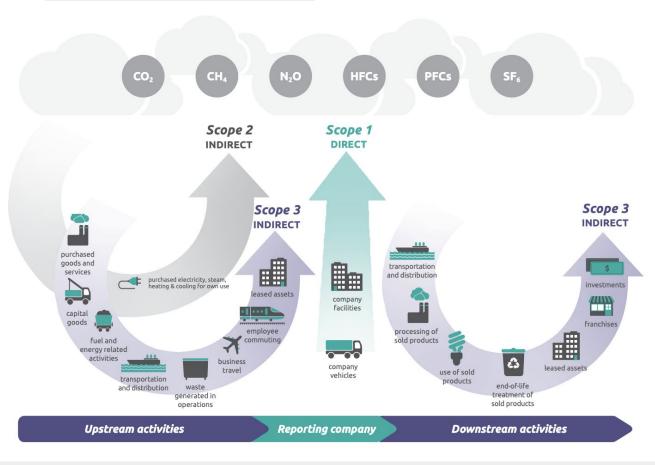
It includes requirements for the design, development, management, reporting and verification of an organization's GHG inventory.



International
Organization for
Standardization

Scope 3 Emissions

Scope 3 emissions are the result of activities from assets not owned or controlled by the reporting organization, but that the organization indirectly impacts in its value chain.

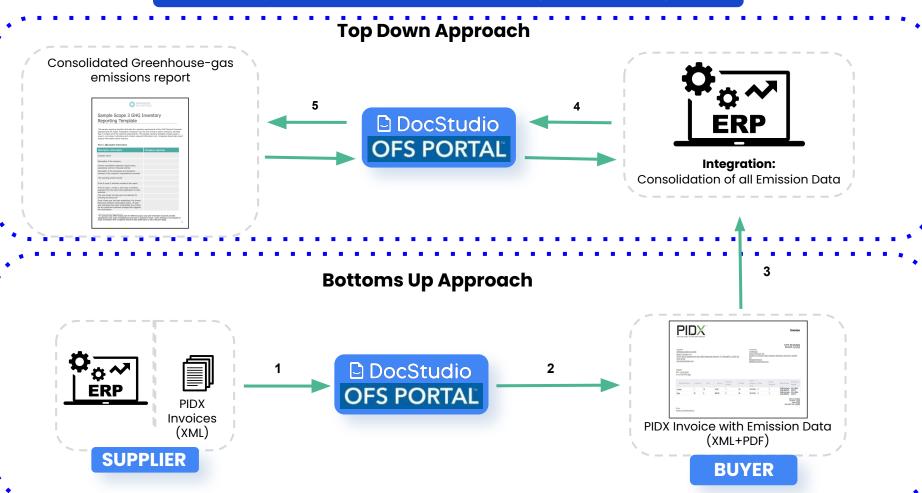


Scope 3 emissions fall within 15 categories

	Scope 3 Category	Description
1	Purchased goods and services	Extraction, production, and transportation of goods and services purchased or acquired by the reporting company in the reporting year, not otherwise included in Categories 2 - 8.
2	Capital goods	Extraction, production, and transportation of capital goods purchased or acquired by the reporting company in the reporting year.
3	Fuel-and-energy related activities (not included in scope 1 or 2)	Extraction, production, and transportation of fuels and energy purchased or acquired by the reporting company in the reporting year, not already accounted for in Scope 1 or Scope 2.
4	Upstream transportation and distribution	Transportation and distribution services purchased by the reporting company in the reporting year, including inbound logistics, outbound logistics (e.g., of sold products), and transportation and distribution between a company's own facilities (in vehicles and facilities not owned or controlled by the reporting company).
5	Waste generated in operations	Disposal and treatment of waste generated in the reporting company's operations in the reporting year (in facilities not owned or controlled by the reporting company).
6	Business travel	Transportation of employees for business-related activities during the reporting year (in vehicles not owned or operated by the reporting company).
7	Employee commuting	Transportation of employees between their homes and their worksites during the reporting year (in vehicles not owned or operated by the reporting company).
8	Upstream leased assets	Operation of assets leased by the reporting company (lessee) in the reporting year and not included in Scope 1 and Scope 2 – reported by lessee.
9	Downstream transportation and distribution	Transportation and distribution of products sold by the reporting company in the reporting year between the reporting company's operations and the end consumer (if not paid for by the reporting company), including retail and storage (in vehicles and facilities not owned or controlled by the reporting company).
10	Processing of sold products	Processing of intermediate products sold in the reporting year by downstream companies (e.g., manufacturers).
11	Use of sold products	End use of goods and services sold by the reporting company in the reporting year.
12	End of life treatment of sold products	Waste disposal and treatment of products sold by the reporting company (in the reporting year) at the end of their life.
13	Downstream leased assets	Operation of assets owned by the reporting company (lessor) and leased to other entities in the reporting year, not included in Scope 1 or Scope 2 reported by lessor.
14	Franchises	Operation of franchises in the reporting year, not included in Scope 1 and Scope 2 – reported by franchisor.
15	Investments	Operation of investments (including equity and debt investments and project finance) in the reporting year.

Source: https://www.sustainablefinance.hsbc.com/-/media/gbm/sustainable/attachments/guide-to-net-zero.pdf

Full cycle of Emission data collecting and reporting



Multi-Supplier Scope 3 Emissions Reporting System

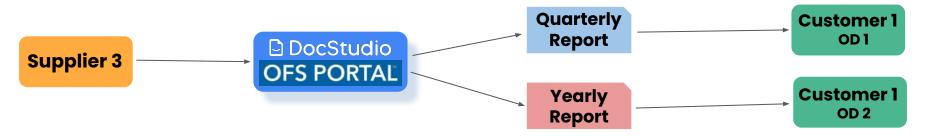
Top Down Reporting

Requirements:

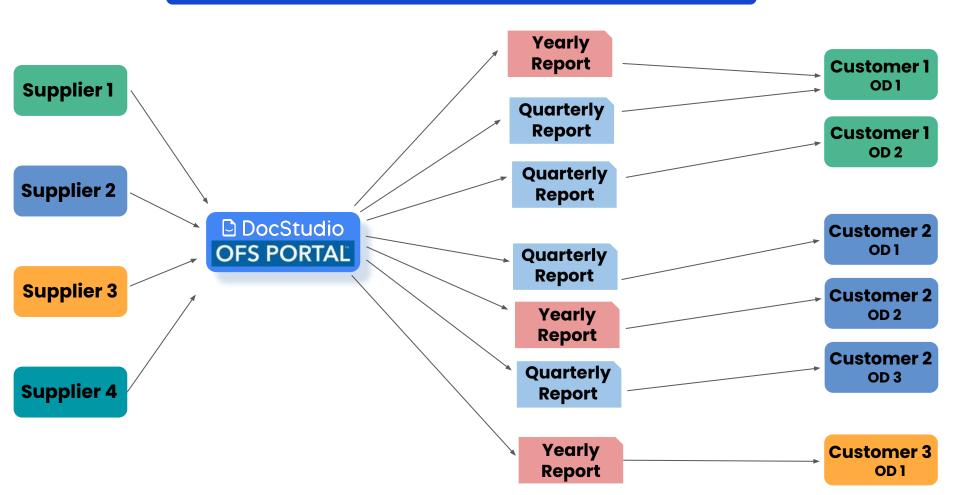
- Suppliers must report Scope 3 emissions to their customers on a regular basis;
- Suppliers will be required to submit reports to customers with varying content and scope;
- The system must support multiple suppliers distributing reports to multiple customers;
- Suppliers will distribute reports at different frequencies based on customer demands.

Sample Customer Requirements:

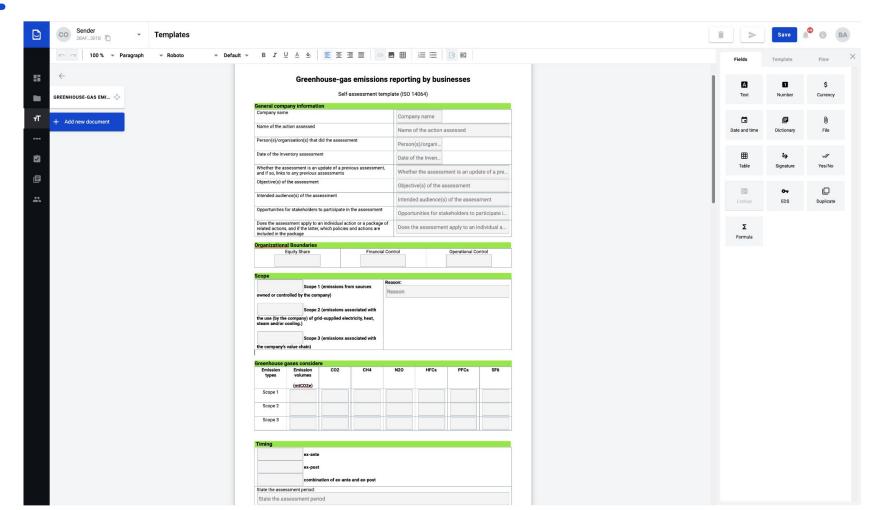
- Scope 3 YEARLY report covering all Materials and Services provided by supplier in previous year
- Scope 3 QUARTERLY report covering all Materials and Services for this specific Business Unit



Multi-Supplier Scope 3 Emissions Reporting System



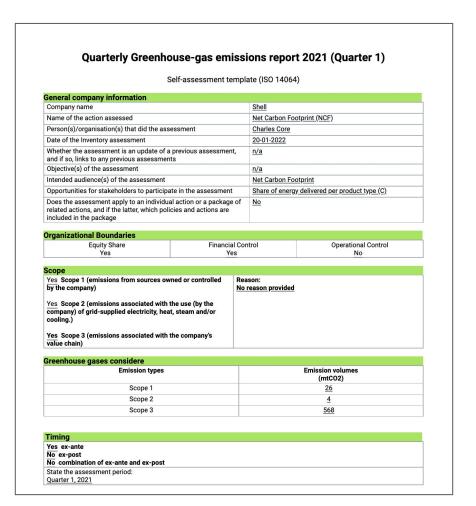
Document template: Greenhouse-gas emissions reporting by businesses ISO 14064



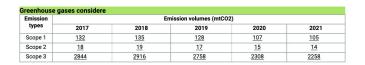
Annual Greenhouse-gas emissions report by businesses ISO 14064

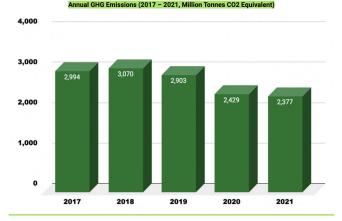
Opportunities for stakeholders to participa			01 0110197	aciirorea per p	roduct type	(5)
Does the assessment apply to an individua related actions, and if the latter, which poli included in the package	al action or a package cies and actions are	of <u>No</u>				
Organizational Boundaries						
Equity Share Yes				rational Cor <u>No</u>	ntrol	
Scope						
Yes Scope 1 (emissions from sources ow by the company) Yes Scope 2 (emissions associated with the company) of grid-supplied electricity, hea	the use (by the	Reason: No reason p	provided			
cooling.) Yes Scope 3 (emissions associated with	•					
value chain)	tne companys					
Greenhouse gases considere						
Emission types				Emission vol (mtCO2		
Scope 1				105	,	
Scope 2				14		
Scope 3				2258		
Yes ex-ante No ex-post No combination of ex-ante and ex-post State the assessment period:						
Yes ex-ante No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 Base year						
Yes ex-ante No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 lase year ear choiser as base year: 2017 lase year emission						
Yes ex-ante No ex-post No ex-post State the assessment period: 2021 Jase year dear chosen as base year: 2017				Emission vol		
Ves ex-ante No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 Lase year ear chosen as base year: 2017 ase year emission				Emission vol (mtCO2		
Yes ex-ante No ex-post State the assessment period: 2021 lase year ear chosen as base year: 2017 lase year emission Emission types				(mtCO2		
Scope 1				(mtCO2 132		
Yes ex-ante No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 Idase year ear chosen as base year: 2017 lase year emission Emission types Scope 1 Scope 2 Scope 3 Acthodologies pecify the methodologies that your compage EM Life Cycle Audit Method Inventory of emissions	iny uses to calculate c	r measure er	missions	(mtCO2 132 18		
Ves ex-ante No ex-post No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 dase year ear chosen as base year: 2017 lase year emission Scope 1				(mtCO2 132 18 2844		
Ves ex-ante No ex-post No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 Jase year ear chosen as base year: 2017 Jase year emission Emission types Scope 1 Scope 2 Scope 3 Alethodologies pecify the methodologies that your compa JEM Life Cycle Audit Method Inventory of emissions missions disaggregated by source types Scope 1: Direct Emissions from Owned/Coc	entrolled Operations	GHG emissions from retail operates u	sions (ope s in this tab included i	(mtCO2 132 18	ol) mated Scop pon Footprin	nt. Emissions Shell
Ves ex-ante No ex-post No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 Lase year ear chosen as base year: 2017 Lase year emission Emission types Scope 1 Scope 2 Scope 3 Acthodologies pecify the methodologies that your compa EM Life Cycle Audit Method when the period of t	ontrolled Operations ustion	GHG emis: The values emissions from retail operates u excluded. Estimated	sions (ope s in this tab included i I sales volu under trade emissions on www.sl	(mtC02 132 18 2844 rational controle reflect estinour Net Carlimes from mammes from mammes from mammes from our Net Carlimes from the Carlimes from the Carlimes from the Carlimes from the Carlines from the Carlines from the Carlines from the Carlines for the Carlines from the Carlines for the	ol) mated Scop oon Footprin rkets where g agreemen cope 3 cates	t. Emissions Shell ts are gories are
Ves ex-ante No ex-post No ex-post No combination of ex-ante and ex-post State the assessment period: 2021 3ase year ear chosen as base year: 2017 base year emission Emission types Scope 1 Scope 2	ontrolled Operations ustion	GHG emissions from retail operates u excluded. Estimated published available in This categ from purch LNG, crude	sions (ope s in this tal included i sales volu under trade emissions on www.sl in June 202 jory includinased thirc e oil and bi	(mtCO2 132 18 2844 rational controle reflect estinour form our Net Carl measure from ma mark licensin is from other S-leaden on the S-leaden of the S-leaden	nated Scop pon Footprin kets where g agreemen cope 3 cater 2020 data v well-to-tank oil products	nt. Emissions Shell ts are gories are will be emissions s, natural gas,

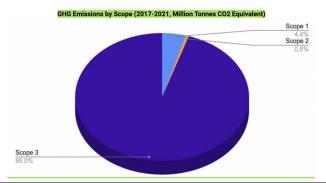
Quarterly Greenhouse-gas emissions report by businesses ISO 14064



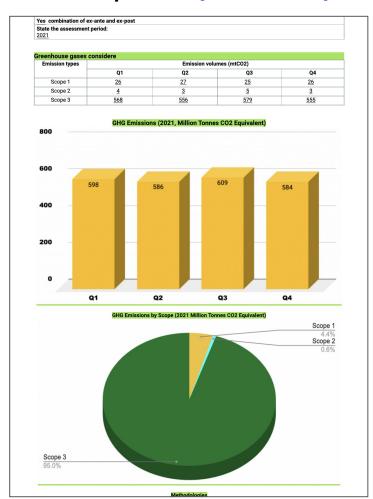
Delta Report 2017- 2021



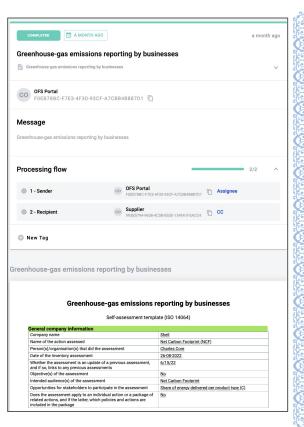




Delta Report 2021 (Q1, Q2, Q3, Q4)

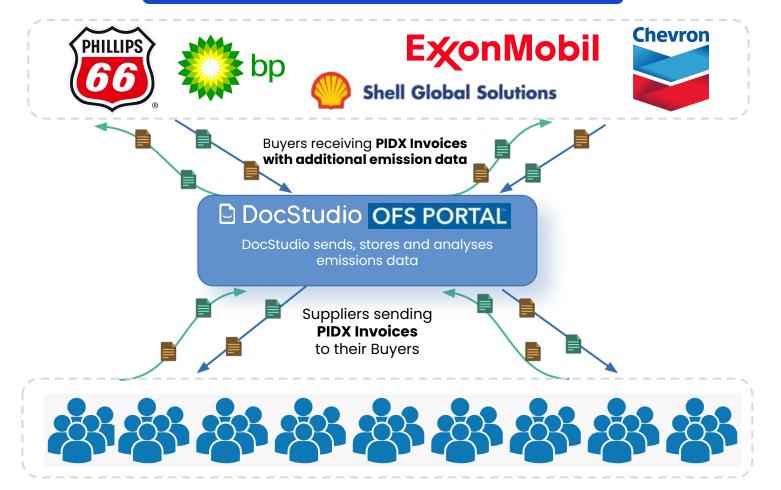


Completed document in PDF and XML format





Scope 3: Bottoms Up Approach in Emission Reporting



How it looks like inside?

SUPPLIER

```
| Comment | Proceedings | Comment | Procedings | Comment | Procedings | Comment | Comm
```

PIDX Invoice (XML)



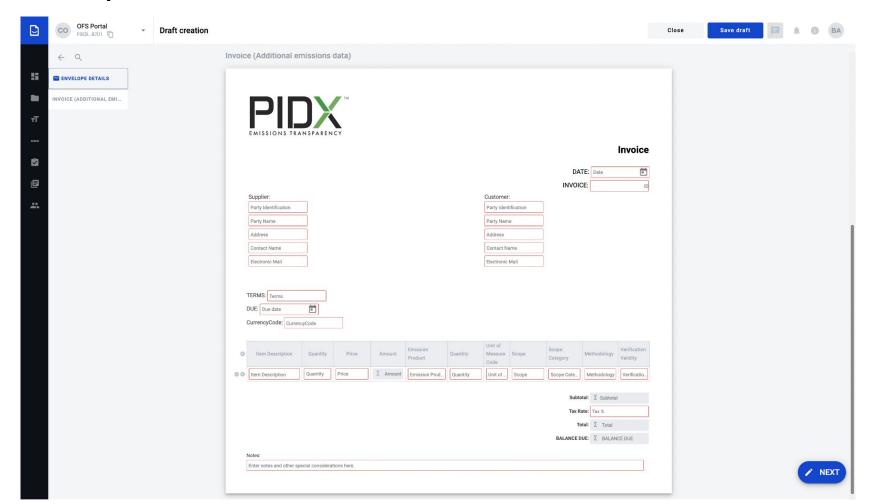




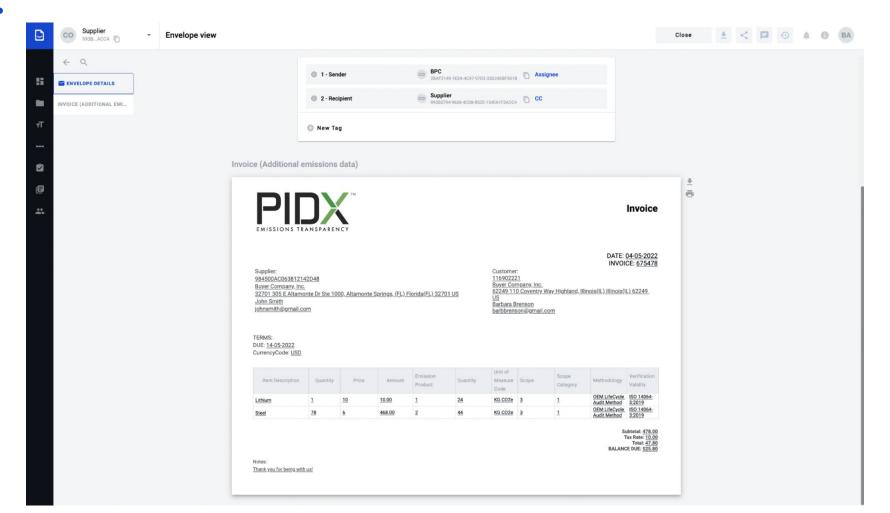
BUYER

PIDX Invoice with Emission Data (XML+PDF)

Document template: PIDX Invoice with Emission Data



PIDX Invoice with Emission Data



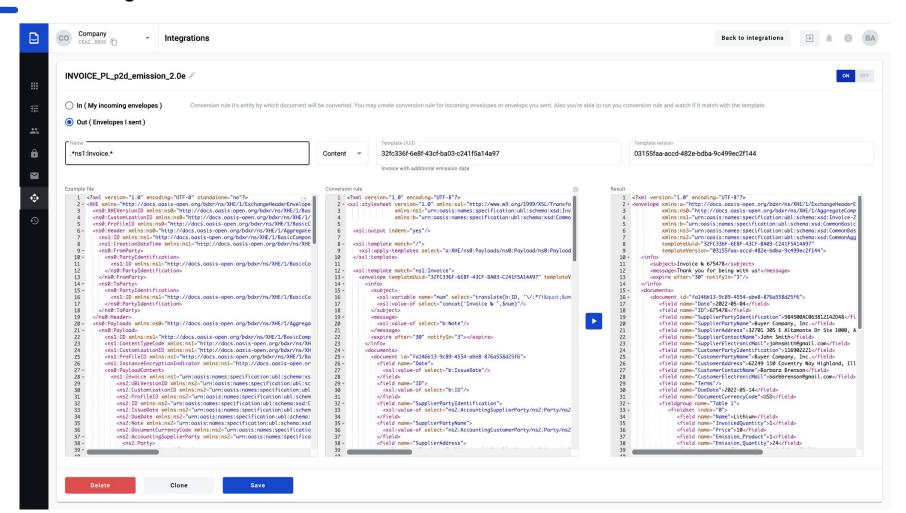
Completed document in PDF and XML format

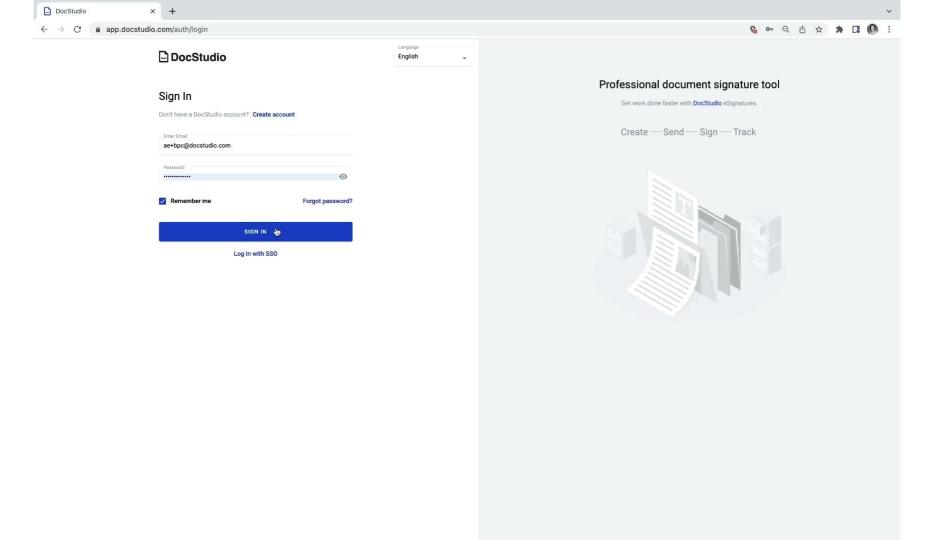




```
1 - document, created="2022-06-17T11:38:29.07ZZ" completed="2022-06-17T11:38:29.262Z">
               verwelope id="2090d69e-9c4d-4de1-ac01-765c524a34a0">
                       *document id="fa146b13-9c89-4554-abe8-876a558d25f6">
                               <field name="SupplierContactName">John Smith</field:</pre>
                                <field none="DocumentCurrencyCode">USD</field>
                               <field name="CustomerContactName">Barbara Brenson</field>
                                <field name="SupplierPartyName">Buyer Company, Inc. </field>
                               <field nome="SupplierAddress">32701 305 E Altamonte Dr Ste 1000, Altamonte Springs, (FL) Florida(FL) 32701 US/field
                                <field none="ID">675478</field>
                               <field name="DueDate">2022-05-14/field>
<field name="Notes">Thank you for being with us!</field>
                                <field nome="SupplierElectronicMail">johnsmith@gmail.com</field>
                               cfield_name="CustomerPartyIdentification">116982221c/fields
                                <field name="Date">2022-05-04</field>
                                <field nome="TaxPercent">10.00</field>
                               *Teild nome-"SupplierPortyIdentification">9845080E063312142048
/field nome-"SupplierPortyIdentification">9845080E063312142048
/field nome-"CustomerPortyIdentification">Eleventification
*Citied nome-"CustomerPortyIdentification">Eleventification
*Citied nome-"CustomerPortyIdentification
*Celtal nome-"CustomerPortyIdentification
*Celta
                               efield none, "Subtotal ": 478 00-/fields
                               <field name="Total">525.80</field>
<fieldaroup name="Table 1">
                                              <field name="UnitofNegsureCode">KG CO2e</field>
                                                <field name="Methodology">OEM LifeCycle Audit Method</field>
                                              <field name="ScopeCategory">1</field>
<field name="Name">Lithium</field>
                                              <field name="InvoicedQuantity">1</field>
<field name="Emission_Quantity">24</field>
                                               <field name="Scope">3</field
                                               efield name-"Price">18//fields
                                                <field name="Emission_Product">1</field>
                                               <field name="VerificationValidity">ISO 14064-3:2019</field>
                                               <field name="Amount">10.00</field>
                                        </fieldset
                                       <fieldset index="1">
                                               <field name="UnitofMeasureCode">KG CO2e</field>
                                              <field name="Methodology">OEM LifeCycle Audit Method</field>
<field name="ScopeCategory">1</field>
                                               <field name="Name">Steel</field>
                                               <field name="Invoiced0uantity">78</field>
                                              <field name="Emission_Quantity">44</field>
<field name="Scope">3</field>
                                               <field name="Price">6</field
                                              <field name="Emission_Product">2</field>
<field name="VerificationValidity">ISO 14864-3:2019</field>
                                               <field name="Amount">468,00</field>
                                        </fieldset>
                                </fieldgroup>
                       e/documents
               <template id="32fc336f-6e8f-43cf-ba83-c241f5a14a97" version="03155faa-accd-482e-bdba-9c499ec2f144">
```

DocStudio Integrations







Q&A

Thank You!



Zack Dikhtyar, CEO dz@docstudio.com

Eugene Soloviov, CTO <u>is@docstudio.com</u>



130 S Orange ave, Orlando, FL 32801









