

UGIMA-X Carbon Footprint Certificates


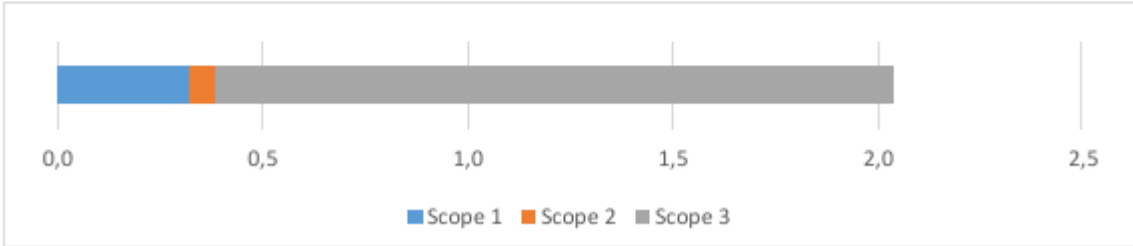
Calculated under ISO 14067 as per april 2023.

See file "Ugitech - LCA - DNV's Assurance Statement" on our website for DNV's independent limited assurance report on the calculation method.


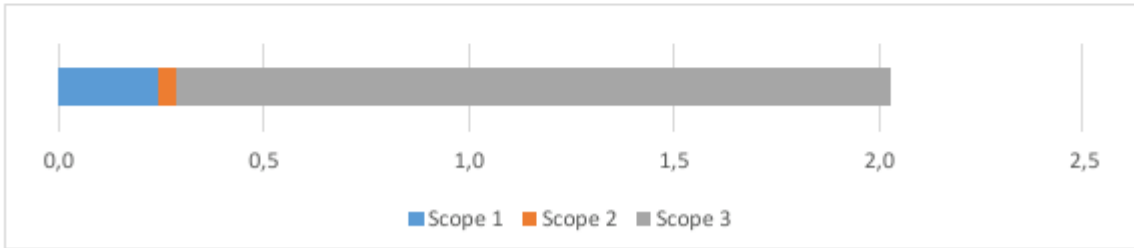
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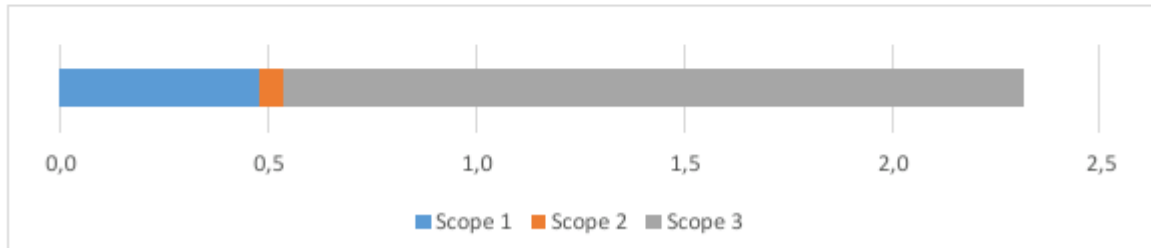
UGIMA-X 4307: Drawn bars [84% scrap]

	Evaluation of CO2 emissions by product and grade		révision	4
			Date	avr-23
			Asset	Ugitech
Evaluation for 1 ton of product :				
Grade	UGIMA-X 4307 and UGIMA 4307-1 and UGI 4307			
Type of product	Drawn bars			
CO2 emissions for 1 ton of product				
Scope 1	0,324	teqCO2/t	<div>TOTAL (Scope 1, 2, 3)</div> <div>2,035 teq CO2/t</div>	
Scope 2	0,064	teqCO2/t		
Scope 3	1,647	teqCO2/t		
				
Methodological description				
The calculation methodology is based on ISO 14067 on the evaluation of the carbon footprint of products.				
The calculations were made using Ugitech production data for the year 2021.				
Scope 1 contains the emissions related to the manufacturing of stainless steel, the combustion of natural gas and the emissions related to the internal transportation of the plant.				
Scope 2 contains indirect emissions related to the use of electricity.				
Scope 3 contains the indirect emissions linked to the raw materials used in the composition of the product, linked to the use of steel mill consumables. This corresponds to scope 3.1 of the GHG Protocol				
Emissions from the transport of raw materials have not been assessed due to lack of reliable data.				
The raw materials used correspond to the average achieved in 2021 for each grade. The main consumables have been taken into account. The energy data is an average over the whole production, depending on the desired product finish.				
The emission factors used are those of the European ETS regulation, or French databases (ADEME), or Worldsteel databases. When possible, supplier data can be used.				
The emission factor used for electricity is that of the French national data from the IEA, i.e. 51,3 kgCO2eq/MWh".				


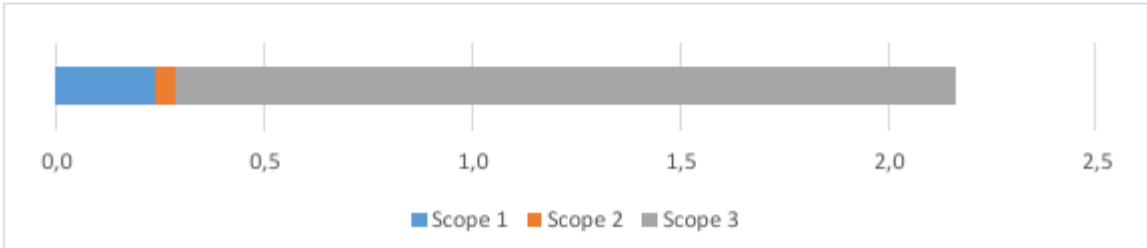
UGIMA-X 4307: Turned and polished bars [84% scrap]

	Evaluation of CO2 emissions by product and grade		révision	4
			Date	avr-23
			Asset	Ugitech
Evaluation for 1 ton of product :				
Grade	UGIMA-X 4307 and UGIMA 4307-1 and UGI 4307			
Type of product	Descaled or Turned and polished bars <55 and >55mm			
CO2 emissions for 1 ton of product				
Scope 1	0,242	teqCO2/t	<div>TOTAL (Scope 1, 2, 3)</div> <div>2,028 teq CO2/t</div>	
Scope 2	0,048	teqCO2/t		
Scope 3	1,738	teqCO2/t		
				
Methodological description				
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Scope 1 contains the emissions related to the manufacturing of stainless steel, the combustion of natural gas and the emissions related to the internal transportation of the plant.				
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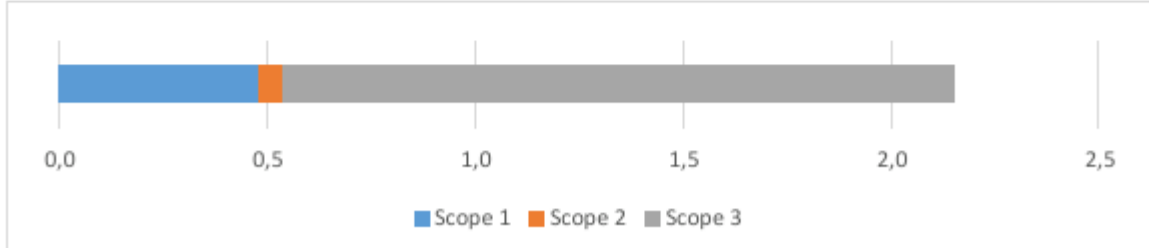
UGIMA-X 4404: Drawn bars [83% scrap]

	Evaluation of CO2 emissions by product and grade		révision	4
			Date	avr-23
			Asset	Ugitech
Evaluation for 1 ton of product :				
Grade	UGIMA-X 4404			
Type of product	Drawn bars			
CO2 emissions for 1 ton of product				
Scope 1	0,478	teqCO2/t	<div>TOTAL (Scope 1, 2, 3)</div> <div>2,314 teq CO2/t</div>	
Scope 2	0,058	teqCO2/t		
Scope 3	1,777	teqCO2/t		
				
Methodological description				
The calculation methodology is based on ISO 14067 on the evaluation of the carbon footprint of products.				
The calculations were made using Ugitech production data for the year 2021.				
Scope 1 contains the emissions related to the manufacturing of stainless steel, the combustion of natural gas and the emissions related to the internal transportation of the plant.				
Scope 2 contains indirect emissions related to the use of electricity.				
Scope 3 contains the indirect emissions linked to the raw materials used in the composition of the product, linked to the use of steel mill consumables. This corresponds to scope 3.1 of the GHG Protocol				
Emissions from the transport of raw materials have not been assessed due to lack of reliable data.				
The raw materials used correspond to the average achieved in 2021 for each grade. The main consumables have been taken into account. The energy data is an average over the whole production, depending on the desired product finish.				
The emission factors used are those of the European ETS regulation, or French databases (ADEME), or Worldsteel databases. When possible, supplier data can be used.				
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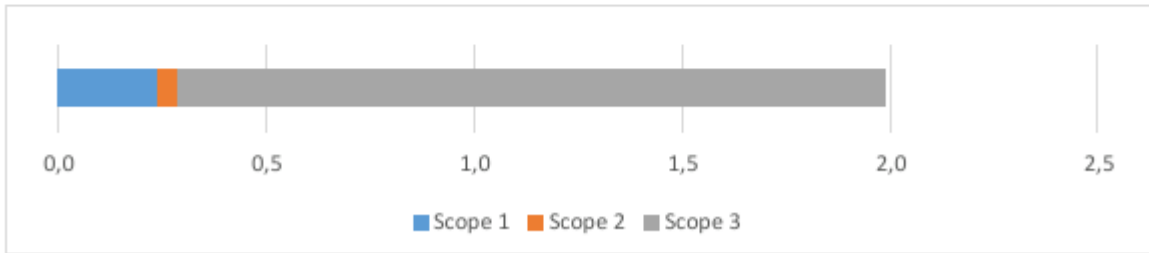
UGIMA-X 4404: Turned and polished bars [83% scrap]

	Evaluation of CO2 emissions by product and grade		révision	4
			Date	avr-23
			Asset	Ugitech
Evaluation for 1 ton of product :				
Grade	UGIMA-X 4404			
Type of product	Descaled or turned and polished or ground bars <55 and >55mm			
CO2 emissions for 1 ton of product				
Scope 1	0,236	teqCO2/t	<div>TOTAL (Scope 1, 2, 3)</div> <div>2,159 teq CO2/t</div>	
Scope 2	0,048	teqCO2/t		
Scope 3	1,875	teqCO2/t		
				
Methodological description				
The calculation methodology is based on ISO 14067 on the evaluation of the carbon footprint of products.				
The calculations were made using Ugitech production data for the year 2021.				
Scope 1 contains the emissions related to the manufacturing of stainless steel, the combustion of natural gas and the emissions related to the internal transportation of the plant.				
Scope 2 contains indirect emissions related to the use of electricity.				
Scope 3 contains the indirect emissions linked to the raw materials used in the composition of the product, linked to the use of steel mill consumables. This corresponds to scope 3.1 of the GHG Protocol				
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The emission factors used are those of the European ETS regulation, or French databases (ADEME), or Worldsteel databases. When possible, supplier data can be used.				
The emission factor used for electricity is that of the French national data from the IEA, i.e. 51,3 kgCO2eq/MWh".				

UGIMA-X 4305: Drawn bars [84% scrap]

	Evaluation of CO2 emissions by product and grade		révision	4
			Date	avr-23
			Asset	Ugitech
Evaluation for 1 ton of product :				
Grade	UGIMA-X 4305			
Type of product	Drawn bars			
CO2 emissions for 1 ton of product				
Scope 1	0,480	teqCO2/t	<div>TOTAL (Scope 1, 2, 3)</div> <div>2,148 teq CO2/t</div>	
Scope 2	0,058	teqCO2/t		
Scope 3	1,610	teqCO2/t		
				
Methodological description				
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The emission factors used are those of the European ETS regulation, or French databases (ADEME), or Worldsteel databases. When possible, supplier data can be used.				
The emission factor used for electricity is that of the French national data from the IEA, i.e. 51,3 kgCO2eq/MWh".				

UGIMA-X 4305: Turned and polished bars [84% scrap]

	Evaluation of CO2 emissions by product and grade		révision	4
			Date	avr-23
			Asset	Ugitech
Evaluation for 1 ton of product :				
Grade	UGIMA-X 4305			
Type of product	Descaled or turned and polished or ground bars <55 and >55mm			
CO2 emissions for 1 ton of product				
Scope 1	0,238	teqCO2/t	<div>TOTAL (Scope 1, 2, 3)</div> <div>1,984 teq CO2/t</div>	
Scope 2	0,048	teqCO2/t		
Scope 3	1,698	teqCO2/t		
				
Methodological description				
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The calculations were made using Ugitech production data for the year 2021.				
Scope 1 contains the emissions related to the manufacturing of stainless steel, the combustion of natural gas and the emissions related to the internal transportation of the plant.				
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