

ICL Group's Scope 1 and Scope 2 **Corporate Carbon Footprint Approach and Methods 2023**

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ICL Group's Scope 1 and Scope 2 Corporate Carbon Footprint Approach and Methods 2023

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Introduction

ICL Group has been systematically monitoring, reporting and verifying (MRV) its Scope 1 & 2 Carbon Footprint reports since 2018. The company has recently also published its first comprehensive, 3rd-party verified Scope 3 Carbon Footprint for 2022 covering both upstream and downstream indirect emissions.

The MRV program and this supporting document have been prepared in accordance with the Greenhouse Gas Protocol (GHG) and ISO 14064-1:2018. The document is intended to provide a framework and reference for the data management approach utilized by ICL Group, developed to ensure reasonable accuracy and integrity of Scope 1 & 2 data collection, calculation, assurance and reporting.

ICL Group intends to release the information listed above to its interested stakeholders as part of its public disclosures and through direct communications, on a case by case basis with interested parties, such as: customers, regulators, analysts, ESG rating agencies and investors.





A | Company Description

Overview

ICL Group Ltd. is a leading global specialty minerals company, which creates impactful solutions for humanity's sustainability challenges in the food, agriculture, and industrial markets. ICL leverages its unique bromine, potash, and phosphate resources, its global professional workforce, and its sustainability focused R&D and technological innovation capabilities, to drive the ICL's growth across its end markets.

ICL Group is publicly-traded in the USA and Israel (NYSE: ICL, TASE: ICL). The company has 13,350 employees (as of year end 2023) with 38 production sites in 13 countries and group headquarters in Tel Aviv, Israel, Amsterdam, Netherlands, Shanghai, China and St. Louis, Missouri in the USA. ICL Group produces approximately a third of the world's bromine, and is the world's sixth-largest potash producer.

Structure, Markets and Industries

ICL Group's integrated business model is mainly structured around three mineral value chainsbromine, potash and phosphate. These minerals are the main raw materials for most of the value-added downstream products in the company's portfolio. Its operations are organized under four reporting segments: Industrial Products (bromine), Potash, Phosphate Solutions and Growing Solutions. The segments represent a specific value chain in which ICL Group holds a leading position – either in terms of market share or cost competitiveness.

The Industrial Products segment primarily operates the bromine value chain, which includes elemental bromine and bromine compounds for various industrial applications. This segment also operates several complementary businesses, mainly phosphorous-based flame retardants and additional Dead Sea minerals for the pharmaceutical, food, oil and gas, and de-icing industries. The Potash segment operates the potash value chain and includes primarily potash fertilizers and the magnesium business, a byproduct of potash production, which produces and sells pure magnesium and magnesium alloys, as well as chlorine and sylvinite.

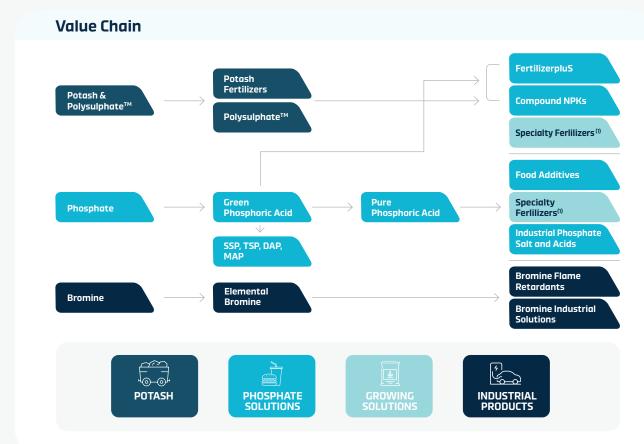
The Phosphate Solutions segment is based on the phosphate value chain. It includes specialty phosphate salts and acids for various food and industrial applications, as well as commodity phosphates, which are used mainly as fertilizers.

The fourth segment, Growing Solutions, includes the specialty fertilizers business. ICL Group is focused on expanding and strengthening its Growing Solutions offerings, by maximizing its existing capabilities and agronomic expertise. The stated strategy calls for expansion and global diversification through opportunistic M&A and, accordingly in 2022, ICL Group integrated the 2021 acquisitions of Fertiláqua, a Brazilian specialty crop nutrition company, and the South American Plant Nutrition business from Compass Minerals (America do Sul). Both acquisitions have helped position ICL as the leading specialty plant nutrition company in Brazil and balance segment seasonality.



A | Company Description

Structure, Markets and Industries



B | Organizational Boundaries

ICL Group has chosen to use the Operational Control approach for the purposes of consolidating and reporting GHG emissions.

Using this approach, data necessary for calculating the Scope 1 & 2 emissions was collected from the operations listed below, including all of ICL Group's manufacturing facilities and major logistical operations.





C E Site Name	© Site location	ලිටි Country	Business Segment	Primary Activity
ICL Brazil São José dos Campos- SJDC	Sao Jose dos Campos	ම Brazil	Phosphates	Manufacturing plant
ICL Brazil Cajati	Cajati	ම Brazil	Phosphates	Manufacturing plant
ICL Fertilaqua Cruz	Cruz alta	ම	Growing	Manufacturing plant
alta		Brazil	Solutions	& research facility
ICL Fertilaqua Conchal	Conchal	ම Brazil	Growing Solutions	Research facility
ICL Fertilaqua Cidade	Cidade	ම	Growing	Manufacturing
Ocidental		Brazil	Solutions	plant
ICL America do	Iracemapolis	e	Growing	Research
Sul Iracemápolis		Brazil	Solutions	facility
ICL America do	Mauá	ම	Growing	Manufacturing
Sul Mauá		Brazil	Solutions	plant
ICL America do	Uberlândia	ම	Growing	Manufacturing
Sul Uberlândia		Brazil	Solutions	plant
ICL America do	Suzano	ම	Growing	Manufacturing
Sul Suzano 1		Brazil	Solutions	plant
ICL America do	Suzano	ම	Growing	Manufacturing
Sul Suzano 2		Brazill	Solutions	plant
ICL America do	Jacarei	ම	Growing	Manufacturing
Sul Jacarei 1		Brazil	Solutions	plant
ICL America do	Jacarei	ම	Growing	Manufacturing
Sul Jacarei 2		Brazil	Solutions	plant
ICL U.S. Carondelet	Carondelet, Missouri	United States	Phosphates	Manufacturing plant
ICL U.S.	North Charleston,	United States	Growing	Manufacturing
Charleston	South Carolina		Solutions	plant
ICL U.S.	Gallipolis Ferry, West	United States	Industrial	Manufacturing
Gallipolis Ferry	Virginia		Products	plant

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Carles Site Name	© Site location	ලිලි Country	Business Segment	Primary Activity
ICL U.S. Lawrence	Lawrence, Kansas	united States	Phosphates	Manufacturing plant
ICL U.S. Summerville	Summerville, South Carolina	United States	Growing Solutions	Manufacturing plant. Currently inactive with minimal activity required to support necessary services.
ICL U.S. Indiana (Hammond)	Hammond, Indiana	United States	Phosphates	Technical Center
ICL China Shandong (SBCL)	Shandong	🍪 China	Industrial Products	Manufacturing plant
ICL China Shanghai Tari (STI)	Shanghai	🍪 China	Phosphates	Manufacturing plant. Currently inactive with minimal activity required to support necessary services.
ICL China TCKG, YBKGT	Yunnan	🍪 China	Phosphates	Manufacturing plant
ICL China YPH 3C & Haikou	Kunming, Yunnan	🍪 China	Phosphates	Manufacturing plant
ICL Australia Fibrisol	Heatherton	ی Australia	Phosphates	Manufacturing plant
ICL Austria Hartberg (Prolactal)	Hartberg	Austria	Phosphates	Manufacturing plant
ICL Belgium (NU3)	Belgium	elgium	Growing Solutions	Manufacturing plant
ICL France Caffiers (Scora)	Calais	France	Industrial Products	Manufacturing plant
ICL Germany Amfert	Ludwigshafen	Germany	Growing Solutions	Manufacturing plant
ICL Germany Ladenburg (BK Giulini GmbH)	Ladenburg	Germany	Phosphates	Manufacturing plant
ICL Iberia Fuentes (Patojos)	Cartagena	💰 Spain	Growing Solutions	Manufacturing plant

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Carlos Site Name	© Site location	ලිලි Country	Business Segment	Primary Activity
ICL Iberia Fuentes (Totana)	Totana	S pain	Growing Solutions	Manufacturing plant
ICL Iberia Fuentes (Escombreras)	Cartagena	S pain	Growing Solutions	Warehouse and loading facility
ICL Iberia Sallent	Sallent, Catalonia	S pain	Potash	Manufacturing plant
ICL Iberia Súria	Catalonia, Súria	S pain	Potash	Manufacturing plant
ICL Netherlands Amfert	Amsterdam	Netherlands	Growing Solutions	Manufacturing plant
ICL Netherlands Heerlen	Heerlen	Netherlands	Growing Solutions	Manufacturing plant
ICL Netherlands Terneuzen	Terneuzen	Netherlands	Industrial Products	Manufacturing plant
ICL Turkey Rotem	Bandırma	C Turkey	Growing Solutions	Manufacturing plant
ICL U.K. Amega	Daventry	United Kingdom	Growing Solutions	Manufacturing plant
ICL U.K. Boulby	Cleveland	Linited Kingdom	Growing Solutions	Manufacturing plant
ICL U.K. London (Fibrisol)	London	Linited Kingdom	Industrial Products	Manufacturing plant
ICL U.K. Nutberry	Nutberry	United Kingdom	Growing Solutions	Manufacturing plant
ICL Germany Bitterfeld	Bitterfeld	Germany	Industrial Products	Manufacturing plant
Dead Sea Bromine (DSB)	Sodom	srael	Industrial Products	Manufacturing plant
Dead Sea Magnesium (DSM)	Sodom	srael	Potash	Manufacturing plant



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Site Name	© Site location	ලිලි Country	Business Segment	D Primary Activity
Dead Sea Works (DSW)	Sodom	srael	Potash	Manufacturing plant
ICL DSS - Chem. Division	Sodom	srael	Industrial Products	Manufacturing plant
ICL Haifa (F&C)	Kiryat Ata	srael	Growing Solutions	Manufacturing plant
ICL Haifa IMI	Kiryat Ata	srael	Phosphates	Laboratories
ICL Neot-Hovav	Neot Hovav	srael	Industrial Products	Manufacturing plant
ICL Periclase	Mishor Rotem	srael	Industrial Products	Manufacturing plant
ICL Rotem Oron	Oron	srael	Phosphates	Manufacturing plant
ICL Rotem Site	Mishor Rotem	srael	Phosphates	Manufacturing plant
ICL Rotem Zin	Zin	srael	Phosphates	Manufacturing plant. Currently inactive with minimal activity required to support necessary services.
ICL Sdom CHP	Sdom, Israel	srael	Potash	Power plant
ICL T&L Sherut (Sherut-Integrated Transportation)	Ashdod	srael	Growing Solutions	Transport & Logistics
ICL T&L Tovala (Mifalei Tovala)	Ashdod	srael	Growing Solutions	Transport & Logistics

ICL Group has made the efforts to collect and aggregate data from all the operations listed above for all Scope 1 & 2 emission sources. Any exceptions are detailed below.

C | Operational Boundaries

ICL Group 2023 sources of scope 1 and scope 2 emissions:

Scope 1 - direct emissions

- Stationary combustion emissions derived from fuel consumption by stationary sources
- O Mobile combustion emissions derived from fuels consumption for transportation uses
- Fugitive emissions leakage of greenhouse gases from refrigeration systems, electrical equipment and cover gas systems
- Explosives emissions released by use of explosives in mining operations
- Process emissions emissions released from non-energy related chemical processes
- Onsite wastewater treatment emissions released during onsite treatment of wastewater

Scope 2 - indirect emissions from purchased energy

- ⊘ Purchased electricity
- ⊘ Purchased steam, heat and compressed air
- ⊘ Onsite renewable energy generation

D | Reporting Period

Calendar year 2023.

E | Organization's GHG policy and responsibility

Following internal discussions, the company's management elected to begin a climate-related initiative in early 2021.

The first phase of the initiative launched a GHG monitoring, reporting and verification program (MRV) for scopes I and 2 emissions, intended to provide internal insights regarding corporate, site and product-related GHG emissions. It also serves to enable disclosure of climate-related information to customers, regulators, analysts, ESG rating agencies and investors. In addition, a comprehensive decarbonization plan was launched using the corporate-wide verified emissions for 2018 emissions as its baseline.



E | Organization's GHG policy and responsibility

As part of the initiative, key policies have been set in place, including for example:

- Introduction of annual reduction targets to all ICL Group segments and operational units that are consistent with the decarbonization plan.
- Introduction of the decarbonization targets to ICL Group's annual executive compensation program.
- Introduction of an internal shadow price for carbon on Capex investments.
- Procurement of renewable energy across all of ICL Group's geographies with preference to long-term power purchase agreements.
- Expansion of the site-by-site energy efficiency program to include GHG reductions that are consistent with ICL Group's decarbonization plan.
- Improve and expand ICL Group's disclosures on climate-related issues under CDP, TCFD and with various ranking agencies.
- Submission of a declaration to the SBTi organization, wherein the company will commit to establish a near-term, science-based target in accordance with the framework developed by the SBTi organization.

The current assurance process is a direct continuation and integral component of ICL Group's GHG policy. ICL Group strives to continue conducting annual 3rd-party assurance.

F | Measuring & reporting approach

ICL Group has followed the GHG Protocol Guidelines on how to measure and report greenhouse gas emissions and in accordance with ISO 14064-1:2018. Emissions are reported in tonnes of CO_2 equivalents (CO_2e).

To support the growing needs regarding ESG metrics, disclosures and analysis, and carbon accounting in particular, ICL group is in the midst of characterising and digitizing the broad range of activity data required for ESG monitoring, reporting and assurance. ICL utilizes a GHG data system powered by ECO-OS as a single-point-of-record for the various regulatory and voluntary tasks.



G | Calculation Methods by Category

General Formula Used to Calculate Emissions

ICL Group's GHG calculations follow the formula below unless otherwise indicated: Activity data x emission factor x global warming potential (GWP) = CO_2 equivalent (CO_2e) emissions Where:



Activity data is a quantitative measure of a level of activity (e.g. mass of material purchased, kilometers travelled, etc.) that results in GHG emissions.



Emission factor is a factor that converts activity data into GHG emissions data (e.g. kg CO₂ emitted per liter of fuel consumed, kg CH4 emitted per kilometer travelled, etc.). Where necessary, activity data is converted into a standard unit prior to conversion. For example: when fuels are reported in units of mass or volume, they are first converted to units of energy (kWh) to facilitate the calculation. Most conversion factors are provided in CO₂ equivalent units by the various sources of emissions data, thus a simplified formula can be expressed as:

Activity data x emission factor = CO_2 equivalent (CO_2 e) emissions



Global warming potential (GWP) is a factor describing the radiative forcing impact (degree of harm to the atmosphere) of one unit of a given GHG, relative to one unit of CO₂ over a specific multi-year time horizon. Multiplying emissions of a given GHG by its GWP gives us the CO₂ equivalent emissions. Figures for GWPs are set out by the Intergovernmental Panel on Climate Change (IPCC) Assessment Reports (AR). The GWPs used in the calculation of CO₂e are based on the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4) over a 100-year period so that the Conversion Factors are consistent with the latest national inventories, on which they're based. In November 2021, it was agreed by the international community at COP26 that greenhouse gas emissions shall be reported under the Paris Agreement transparency framework using 100-year AR5 GWPs (without climate-carbon feedback). Therefore, from 2023 onwards Conversion Factors will primarily be based on 100-year AR5 GWPs.



G | Calculation Methods by Category

ICL Group used the methods and emission factors listed below for the purposes of calculating GHG emissions for each category.

Table 2: Scope 1 & 2 methods, sources of activity data and emission factors

	Sub-category	Primary Source for ICL Activity Data	Emission Factors (EFs)	Primary Sources for EFs
	Stationary combustion	Enterprise systems, based on invoices	Secondary energy-based	UK DEFRA/BEIS
	Mobile Combustion	Enterprise systems, based on invoices	Secondary energy-based	UK DEFRA/BEIS
Scope 1 -	Fugitive Emissions	Enterprise systems, based on invoices	Secondary mass-based	UK DEFRA/BEIS
Direct emissions	Explosives	Enterprise systems, based on invoices	Secondary mass-based	US EPA and scientific literature
	Process Emissions	Enterprise systems, based on production data	Secondary mass & stoichiometry-based	ICL process engineers
	Onsite Wastewater Treatment	Enterprise systems, based on operational data	Secondary mass-based	UK DEFRA/BEIS & ICL process engineers
Scope 2 - Indirect emissions from energy (market-based)	Purchased Electricity	Enterprise systems, based on invoices	Primary and secondary energy- based	Updates by suppliers, when available; mostly annual national or regional updates
	Purchased Steam, Heat & Compressed Air	Enterprise systems, based on invoices	Primary and secondary energy- based	UK DEFRA/BEIS & where available - supplier specific
	Onsite Renewable Energy	Enterprise systems, based on invoices	Secondary energy- based	UK DEFRA/BEIS
Scope 2 - Indirect emissions from energy (location-based)	Purchased Electricity	Enterprise systems, based on invoices	Secondary energy-based	Annual national or regional updates
	Purchased Steam, Heat & Compressed Air	Enterprise systems, based on invoices	Secondary energy-based	UK DEFRA/BEIS
	Onsite Renewable Energy	Enterprise systems, based on invoices	Secondary energy-based	Annual national or regional updates & UK DEFRA/BEIS

ICL Group has made the efforts to use the best available activity data and emission factors, as available at the time. All sources of data are recorded and cited specifically as part of the QA and validation process for all known activities at ICL Group.



Below are details of the category-specific calculations were employed:

Scope I includes direct GHG emissions from sources that are owned or controlled by the company. For example, emissions from combustion in owned or controlled boilers, furnaces, or vehicles; and emissions from chemical production in owned or controlled process equipment.

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Scope 1 - Stationary and Mobile Combustion

These two categories include emissions of greenhouse gases resulting from the combustion of all solid, liquid and gaseous fuels utilized by the company facilities and mobile equipment, including fossil fuels, biofuels and other alternative fuels (such as waste-derived fuels).

Activity data

Activity data includes purchase of fuels recorded from invoices or consumption of fuels recorded from operational systems, into the company's enterprise resources and reported on a monthly or annual basis to the GHG data system. Data is preferably recorded in original units (for example: cubic meters of natural gas, tonnes of diesel fuel or MMBtus of propane) and converted to a standard energy unit (kWh) by the GHG data system. The necessary conversions utilize calorific values and density data provided by sources such as UK DEFRA and USEPA.



Method

Calculation follows the general formula. To estimate emissions, fuel consumption data are multiplied by best-fit secondary emission factors for each fuel and recorded in tonnes of CO2 equivalents by the GHG data system's reports.



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Scope 1 - Fugitive Emissions

This category includes fugitive emissions of refrigerants, spark-suppression and cover gases that have known global warming potential (GWP) utilized by the company facilities and mobile equipment.

Activity data

Activity data includes emissions resulting from replenishment of the company's systems with the corresponding refrigerants and other gases recorded to the company's enterprise resources and reported on a monthly or annual basis to the GHG data system. Data is preferably recorded in original units (predominantly as mass) and converted to a standard mass unit (kilogram) by the GHG data system.



Method

Calculation follows the general formula. To estimate emissions, refrigerants data are multiplied by best-fit secondary emission factors for each fuel and recorded in tonnes of CO_2 equivalents by the GHG data system's reports.



Scope 1 - Explosives

This category includes emissions from the explosive combustion at the company's mining operations.



Activity data

Activity data includes purchase of explosives recorded from invoices to the company's enterprise resources and reported on a monthly or annual basis to the GHG data system. Data is preferably recorded in original units (predominantly as mass) and converted to a standard mass unit (kilograms) by the GHG data system.



Method

Calculation follows the general formula. To estimate emissions, explosives data are multiplied by best-fit secondary emission factors for each fuel and recorded in tonnes of CO2 equivalents by the GHG data system's reports.



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Scope 1 - Non-Energy Related Process Emissions

This category includes emissions from specific chemical or physical reactions such as release of CO_2 following acidification of phosphate rock.

Activity data

Activity data includes the mass of key raw material components in the chemical or physical reaction that is stoichiometrically related to the greenhouse gas release. For certain processes, such as the release of N₂O during manufacturing of nitrogen-based chemicals, emissions are monitored directly at the point of release, if and when such monitoring is required by local regulatory authorities. Emissions are reported on a monthly or annual basis to the GHG data system. Data is preferably recorded in original units (predominantly as mass) and converted to a standard mass unit (kilograms) by the GHG data system.

Method

For activities reporting the mass of key raw material components the calculation multiplies the mass of the raw material by the stoichiometric, mass-based ratio to the greenhouse gas being released and converted to tonnes of CO_2 equivalents by the GHG data system by multiplying the result by the global warming potential of the specific greenhouse gas. For activities reporting the directly monitored mass of emissions the mass is converted to tonnes of CO_2 equivalents by the GHG data system by multiplying the result by the global warming potential of the specific greenhouse gas. For activities reporting the directly monitored mass of emissions the mass is converted to tonnes of CO_2 equivalents by the GHG data system by multiplying the mass by the global warming potential of the specific greenhouse gas.

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Scope 1 - Emissions from Onsite Wastewater Treatment

This category includes emissions of greenhouse gases during wastewater treatment processes occurring at the company's facilities or under the company's operational control. The primary source of emissions from wastewater treatment is the result of biological breakdown of organic waste materials releasing carbon dioxide, methane and nitrous oxides.





Activity data

Activity data is the volume and key attributes of the wastewater entering the wastewater treatment facility, predominantly provided by the company's operational records and reported on a monthly or annual basis to the GHG data system. Data is preferably recorded in original units (predominantly as volume) and converted to a standard volume unit (cubic meters) by the GHG data system.



Method

Calculation follows the general formula. Volume of effluent entering the wastewater facility was multiplied by corresponding secondary emission factors.

Scope 2

Scope 2 includes GHG emissions from the generation of purchased electricity consumed by the company. Scope 2 emissions are provided in a dual reporting format, calculated using the market-based and location-based methods, following emission factor hierarchies, as instructed by the GHG Protocol guidance for Scope 2.



Market-based Method

The market-based method shows emissions for which the company is responsible through its purchasing decisions based on contractual emissions, wherever possible. Such contracts may be through power purchase agreements with specific electricity generators or suppliers, or in the case of renewable energy through Accredited Emissions Certificates (EACs), such as guarantees of origin in Europe (GOs), renewable energy credits (RECs) in the USA and international renewable energy credits (iRECs) in a range of countries worldwide.



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Location-based Method

The location-based method calculates emissions based on electricity consumption at the location where the energy is used, taking into account the fuel mix used to generate electricity within the locations and time periods in which the company operates. The company uses local or country-level grid average emission factors to report location-based emissions for all offices included in the inventory scope.

Activity Data

The market-based method and location-based method use the same activity data: the amount of electricity consumption compiled on the company's enterprise systems from invoices provided by each facility's energy service provider or local grid operator. Energy is recorded in units of kWh or MWh. Activity data for purchases of steam or compressed air follow a similar procedure. Purchase and retirement (also known as "redemption" or "cancellation") of EACs is recorded in MWh units from contractual purchase agreements and certificates of retirement, respectively.

Method

Calculations follow the general formula. Under the market-based method, whenever available, activity data for each facility (kWh) are multiplied by supplier-specific emission factors. When such data is not available, but electricity is supplied contractually by a specific technology (e.g. natural gas CHP power plant or nuclear power plant), activity data is multiplied by secondary emission factors for the specific technology provided by IPCC or local regulatory authorities. When no specific contractual evidence is available, activity data is multiplied by the local grid emission factor representing the residual mix reported by local or national grid operators or national regulatory body (such as the USEPA) or by an international body regulating or compiling such information (such as the EU AIB). When there is no data available regarding the residual mix for a specific facility's location, an emission factor representing the average mix is used instead. Under the location-based method, activity data for each facility (kWh) are multiplied by the local grid emission factor as reported by the local or national grid operators or regulatory body or by an international body compiling such information.



Limitation of the use of secondary emission factors. Using secondary (e.g. "industryaverage" or "national-average") emission factors is less granular than using a supplier-specific approach, whereby suppliers provide high-quality product carbon footprints or detailed Scope 1 and 2 data that can be used to calculate supplier-specific emissions for every form of energy purchased. ICL Group strives to continuously move from the current hybrid approach towards a supplier-specific approach as more suppliers ready themselves for reporting of more granular emission factors.

Acquisition of new assets. New industrial operations in Brazil were acquired and owned by ICL Group over the course of 2021 fiscal year. These industrial operations include: ICL Fertilaqua, ICL America do Sul. Their emissions were first recorded in the 2022 scope 1 & 2 emissions report and are included in this current report as well. However, these sites were not under ICL operational control during the baseline year being used by ICL to set its decarbonization targets. Thus, ICL is also reporting its total emissions on a same-site basis in various official communications, clearly stating the distinction and always alongside the total amount of emissions for the company.

Site-specific limitations. At the site ICL U.S. Summerville, USA 2023 data was not available, due to inactivity. Thus, an approximation based on 2022 data was used.



I | Key Resources

Standards and Guidance

- WRI & WBCSD. 2004. The GHG Protocol: A Corporate Accounting and Reporting Standard. Revised 2105 Edition.
 https://ghgprotocol.org/sites/default/files/standards/ghg-protocol-revised.pdf
- [2] WRI & WBCSD. 2015. GHG Protocol Scope 2 Guidance. Supplement to the GHG Protocol Corporate Accounting and Reporting Standard. <u>https://ghgprotocol.org/sites/default/files/2023-03/Scope%202%20Guidance.pdf</u>
- ISO. 2018. ISO 14064-1:2018(en) Greenhouse gases Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.
 https://www.iso.org/obp/ui/en/#iso:std:iso:14064:-1:ed-2:v1:en

Primary Sources for Emission Factors

[4]	UK Department for Energy Security and Net Zero (formerly: DEFRA) and Department for Business, Energy & Industrial Strategy (formerly: BEIS). Government conversion factors for company reporting of greenhouse gas emissions. https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting
[5]	US Environmental Protection Agency (EPA). Center for Corporate Climate Leadership GHG Emission Factors Hub. <u>https://www.epa.gov/climateleadership/ghg-emission-factors-hub</u>
[6]	US Environmental Protection Agency (EPA). Emissions & Generation Resource Integrated Database (eGRID). <u>https://www.epa.gov/egrid</u>
[7]	EU AIB. European Residual Mix Factors. https://www.aib-net.org/facts/european-residual-mix
[8]	Australian Government Dept of Climate Change, Energy, the Environment & Water. The National Greenhouse Accounts (NGA) Factors. <u>https://www.dcceew.gov.au/climate-change/publications/national-greenhouse-accounts-factors</u>
[9]	Israel Ministry of Environmental Protection. Methods for Calculating Emissions and Transfers in the PRTR. https://www.gov.il/en/Departments/General/calculation_methodology_(English). https://www.gov.il/he/departments/general/calculation_methodology_(Hebrew).
[10]	Climate Transparency. Country profiles. https://www.climate-transparency.org/countries
[11]	The Carbon Footprint. Emission factor database. https://www.carbonfootprint.com/factors.aspx
[12]	The Ecoinvent Association. The ecoinvent database. https://ecoinvent.org/the-ecoinvent-database/

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