



Koura

Sustainability Spotlight 2020

Business Concentration

Fluorinated Solutions

Key Activities

Koura provides fluorine and downstream products that support modern living in a vast number of ways. Koura operates the world's largest fluorspar mine and produces intermediates, refrigerants and propellants that serve automotive, infrastructure, semiconductor, health, medicine, climate control, food cold chain, energy storage, computing and telecommunications applications. Koura is the leading global producer of fluorspar and the world's largest producer of integrated hydrofluoric acid.

Key Markets

Global presence

Total Sales

\$698 million

(11% of Orbia revenues)

Total Employees

~1,580

(7% of Orbia headcount)

Top five material topics



Health, Safety & Well-being



Investments in local communities



Governance



Innovation



Sustainable lifecycle of products

Environmental progress in 2020 versus 2019:

-11%

energy consumption per ton

-1%

water withdrawal per ton

-3%

absolute Scope 1 & 2 GHG emissions

-57%

total waste

-17%

SOx emissions

-43%

NOx emissions

Selected Metrics	Units	2019	2020
Energy intensity	MWh/ton	0.27	0.24
Renewable energy	% of total electricity consumption	0%	0%
GHG intensity	Tons CO ₂ e/ton	0.08	0.08
Water intensity	m ³ /ton	1.41	1.39
Waste recycled/reused/recovered	% of total waste	35%	37%
Incident rate	(TRIR) total employees and contractors	0.43	0.42



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2020 product highlights

Climate-friendlier refrigerants

Koura has created a new portfolio of refrigerants that achieve both high-performance and significantly lower global warming potential (GWP) than current products. For example, this portfolio range includes a new CO₂-based refrigerant with a GWP more than 90% lower than R410A, and we have recently launched Klea® 473A for use in ultra-low temperature refrigeration applications such as bio-medical storage. With a GWP which is 85% lower than the incumbent refrigerant, R-23.



Greening propellants

Our new offering Zephex® 152a, is a highly purified cGMP medical propellant used for asthma and other respiratory inhalers that has a 90% lower carbon footprint than current propellants. We commenced a multi-million-dollar investment into a new Zephex® 152a production facility at our site in Runcorn, UK, to scale production capacity to meet the increasing demands of our customers for this new and much greener medical propellant. Additionally, the successful progress of Zephex® 152a, has empowered us to announce our delisting of a high GWP medical propellant, Zephex® 227ea, from 2021.

“Koura has a major role to play in addressing a broad range of societal needs where the element fluorine connects strongly to the solution. We are investing in low-carbon footprint solutions for our current customers, expanded business models in healthcare, and solutions and services that enable the world’s rapid transition to sustainable energy. We are meeting our customers needs with new refrigerants, medical propellants and materials for lithium ion batteries to drive this change. Advancing life around the world means we are providing the solutions that will enable us all to be more resilient and sustainable.”



Gregg Smith
President, Fluorinated Solutions (Koura)

For more details about Koura, visit [KouraGlobal.com](https://www.kouraglobal.com)