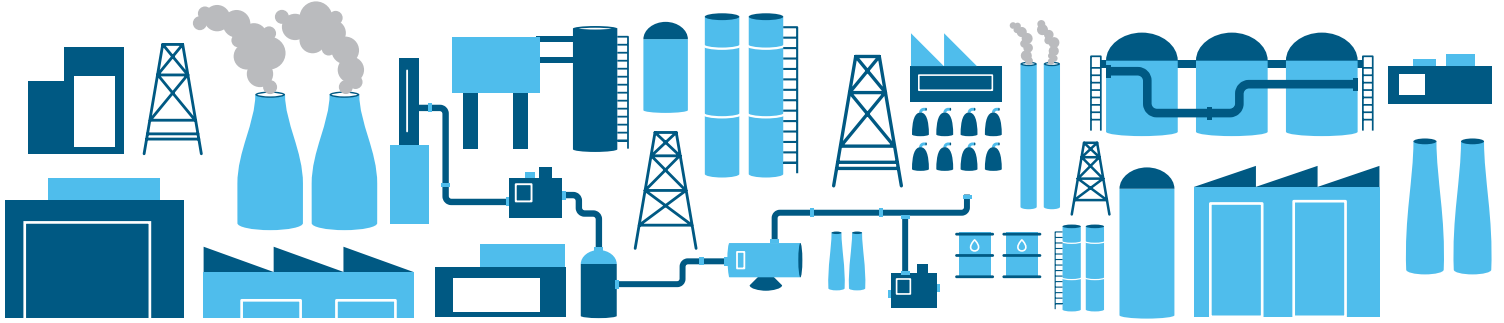


FROM ELEMENTS TO EVERYDAY

## RAW MATERIALS & INGREDIENT PROCESSING



Essential elements make up the foundation of every product we consume and interact with on a daily basis. Ecolab solutions help reduce water and energy use and minimize the environmental impact of some of the most critical processes required to produce these core elements. From the mining of minerals such as copper and gold to abstraction of oil and gas to processing raw materials ranging from steel to sugar cane, we partner with customers to deliver the ingredients that form the basis of all else.



### ArcelorMittal

As the world's largest steel mill group, ArcelorMittal is committed to protecting the environment, improving operational sustainability and delivering sustainable products to its customers. In 2014, ArcelorMittal extended its partnership with Ecolab to optimize efficiency of its Galati Steel Mill in Romania. Ecolab implemented 3D TRASAR™ Technology in one of Galati's blast furnace open cooling systems, installed cooling tower level control to allow for improved blast furnace water balance, switched the make-up water source from demineralized water to soft water and optimized the recirculation pumps to create a more sustainable and profitable operation.

Results achieved in one year:

# 2.2 billion gallons of water saved

6.2 million kWh reduction of energy use	42% to 15% reduction of water content in sludge	1,226 metric tons of CO <sub>2</sub> e avoided	\$1.42 million total savings
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For more information about sustainability at Ecolab, please visit [ecolab.com/sustainability](http://ecolab.com/sustainability).

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