Industry Fact Sheet
The chlor-alkali industry applies the energy of electricity to the “salt of the earth” to produce three of the most useful chemical building blocks: chlorine, sodium hydroxide and hydrogen.

\[ \text{Salt} + \text{Water} + \text{Electricity} \rightarrow \text{Chlorine} + \text{Sodium Hydroxide} + \text{Hydrogen} \]

$630 billion
A recent economic analysis found that using chlorine chemistry in nine end-use applications saves U.S. and Canadian consumers over $630 billion every year.

critical chemistry
Chlorine chemistry helps manufacture thousands of products critical to health, safety, energy efficiency and innovation.

keystone chemical
Roughly 1/2 of the products of the chemistry industry depend on chlorine chemistry.

safe H₂O
The vast majority of U.S. water systems use chlorine to help provide safe drinking water.

medicine
93% of top-selling U.S. pharmaceuticals are made with chlorine chemistry.

germ-buster
Chlorine disinfectants destroy germs on surfaces in homes, healthcare settings, day care facilities, schools and restaurants.

food
86% of crop protection chemicals are made with chlorine chemistry.

versatile chemistry
Chlorine’s co-product, sodium hydroxide (alkali), helps produce soaps and detergents, textiles, pulp and paper, metals and more.

$8.8 billion
Chlor-alkali industry employees earn a total of more than $8.8 billion in wages each year.

161 thousand
Chlorine-related industries supply more than 161 thousand U.S. jobs.

energy efficiency
Chlorine-based building and construction products, like polyurethane insulation and vinyl windows, help conserve energy.

wind and solar
Components of wind turbines and solar panels are made with chlorine chemistry.

zero-emission fuel
Hydrogen, a co-product of the chlor-alkali process, can be used as a zero-emission fuel in plant boilers, reducing a facility’s carbon footprint.

innovation
Chlorine chemistry helps process ultra-pure silicon for computer electronics and high-speed fiber optic communication.

infrastructure renewal
Durable, corrosion-resistant PVC pipe, a product of chlorine chemistry, is a sustainable solution for water infrastructure renewal.

recycling
Chlorine chemistry helps remove impurities from aluminum cans during recycling, diverting trash from landfills, saving energy and precious resources.