

# INDUSTRY HISTORY

With the boom of natural and liquid natural gas extraction in the US and a 40% reduction in production costs over oil, this new low cost and abundant fuel source is a game changer across every industry. With this increase in affordable resources, the current infrastructure is not equipped to handle the massive influx of local petroleum products that need to be extracted, transported, produced and refined. With a market price 40% lower overall, a 33% drop in CO<sub>2</sub> emissions and a 10% lower electricity cost than conventional oil and coal, these resources will be driving the expansion of many other industries as well. The utility companies will be able to provide reduced energy costs, which in turn allows for cheaper manufacturing across the board, including energy heavy systems such as chemical & mineral processing, metal production, pulp and paper production and other industrial manufacturing.

With refineries expanding and new manufacturing plants being built, Sika is devoted in supplying quality products and solutions into this rapidly expanding market.



TRANSMISSION & TERMINALS

With Oil, Natural Gas, and Liquid Natural Gas now in abundance in North America, the infrastructure needs to be expanded to accommodate these increases. Pipe-lines are needed to connect major supply areas, such as the Mid-West, South West and Mid-Atlantic, to production plants, allowing for faster transportation and lowered costs.

Areas of application within this market will include product pipelines, compressor/pump stations, bulk liquid storage and input terminals.



OIL & GAS PRODUCTION

Natural Gas and Liquid Natural Gas have become the new low cost alternatives for fuel, making the need for conveniently located production facilities a high priority. Production facilities are necessary for the success of the US petroleum market as well as many other industries.

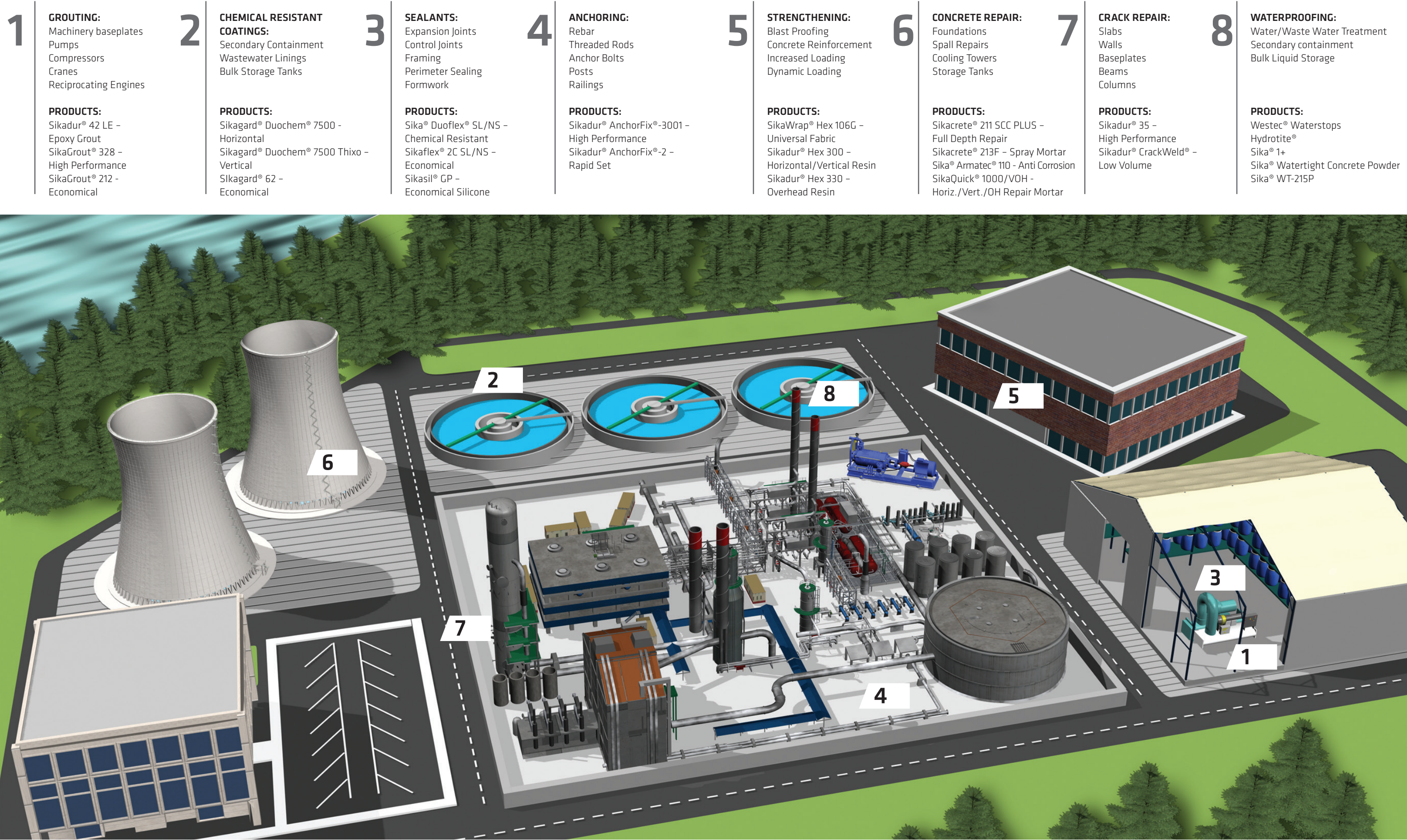
Areas of application within this market include bulk liquid storage tanks, warehouses and production process machinery (agitators, separators, blenders, etc.).



PETROLEUM REFINING

With ever increasing sustainable production of Oil, Natural Gas and Liquid Natural Gas, refineries in the US have become a necessity more than ever before. These refineries will supply a lower cost fuel to many existing markets as well as new and growing markets. And with crude oil production on the decline, refineries must be either built or retrofitted to handle natural and liquid natural gas.

Areas of application within this market include process unit modifications, loading and unloading facilities, as well as tanks, bulk storage and blending systems.





# MARKETS & APPLICATIONS

**WHILE THIS IS A NEW FOCUS FOR SIKA IN THE US**, this has been an established market sector for sister Sika companies all over the world. Sika Canada has been an active player in terminals, transmission, production and refinement of petrochemicals for 30 years and still remains the major player for chemical resistant sealants and coatings as well as chemical grouts in this market. Sika Canada has been pioneering cold weather grouting applications since the late 1980s and continue to do so today. Along with Sika Canada, there has been a strong presence in this market for years in South America, such as Sika Brazil and Venezuela, and in the Middle East, in Sika companies such as the United Arab Emirates.



## POWER/UTILITY PRODUCTION

As 90 GW of coal production retires and the fuel sources shift from mainly oil to more sustainable resources such as wind, solar, and natural gas, methods of power production will need to adapt to meet changing market needs.

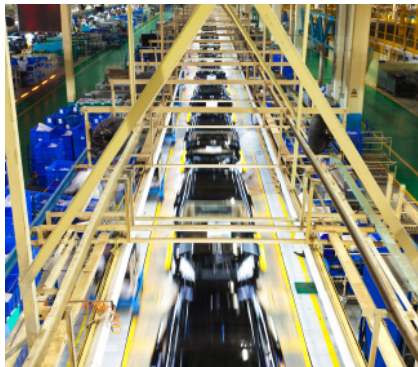
Areas of application within this market will include large machinery baseplates (turbines, boilers, etc.), machinery housing, and general infrastructure repair from creep, cracking, and fatigue.



## CHEMICAL, METAL, MINERAL, & PAPER PROCESSING

This market consists of the production of industrial chemicals (plastic, ethylene, fertilizer, etc.) metals and minerals (driven by urbanization and infrastructure demands), and paper and pulps (increased product packaging). These processes will all be able to take advantage of cheaper fuel and energy to expand production in the US, leading to massive infrastructure development.

Areas of application within this market include entirely new production plants for metals, paper and specialty chemicals in the US, previously sourced from global suppliers (process lines, storage tanks, heavy machinery, etc.).



## INDUSTRIAL MANUFACTURING

With the automotive, commuter rail and housing markets currently on the rise, the need for plant repair and expansion is critical. Much of the current infrastructure has been in use for decades and will need renovations to continue supplying these growing markets.

Areas of application in this market include heavy machinery baseplates for manufacturing lines, plant and warehouse flooring, as well as existing building repairs.

# SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



WATERPROOFING



CONCRETE



REFURBISHMENT



SEALING AND BONDING



FLOORING



ROOFING

# FOR MORE INFORMATION:



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# REFURBISHMENT INDUSTRIAL CONSTRUCTION PRODUCTS

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