

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

CORE PRODUCT CATEGORIES / PRODUCT PLATFORM

CarbonNova™

CO₂ valorization concepts

Explore carbon and mineral-conversion concepts tied to a specific feed and product opportunity.

APPLICATION • PROOF • COMMERCIAL SCALE



01 / 04



CARBONNOVA™ / 01

Where the platform fits

Explore carbon and mineral-conversion concepts tied to a specific feed and product opportunity.

TAILINGS

Assess reactive mineral streams for stabilization and carbonation.

INDUSTRIAL CO₂

Screen sources and conversion routes for useful outputs.

MODULAR PROCESS

Investigate compact assets for site-specific deployment.

CONNECTED SYSTEM

Chemical IP R&D, OFI supply and Kane engineering can be combined when the process requires more than a product.

Select the treatment around the customer stream, objective and operating constraints.



CARBONNOVA™ / 02

Prove the operating value

Application-specific tests connect a technical response to a customer decision.

FEED

Characterize CO₂ stream, mineral reactivity and impurities.

MASS BALANCE

Test reaction extent, product quality, energy and materials.

ECONOMICS

Compare capital, operations, logistics and output value.

VALUE METRIC

A viable site-specific material and carbon-value case.

Bench and field results define the commercial claim for this application.



CARBONNOVA™ / 03

From trial to program

Qualified chemistry becomes a repeatable supply and service arrangement.

QUALIFY

Agree on the specification, sampling plan and acceptance criteria.

ENGINEER

Select product form, production route, equipment and safe operating envelope.

SUPPLY

Choose bulk, toll, private label or regional manufacture as volume supports.

IMPROVE

Connect batch quality, dose and field data to an ongoing technical review.

A representative sample and a measurable target are the best starting point.