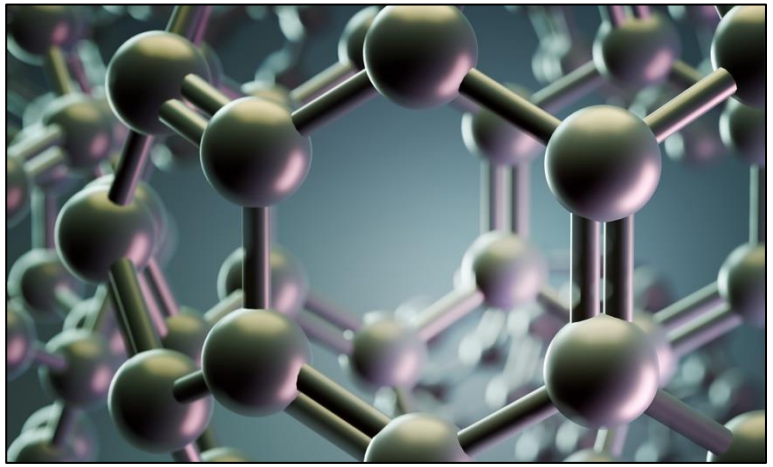
CARBONIX

Active carbon materials
enabling energy transformation to Net-Zero

$200B+ Total Addressable Markets



An Indigenous Canadian Company

Q2-2023

CARBONIX ETHOS

Liability to Asset

Our feedstocks are carbon by-products generated by the same industries for who we develop solutions. Facilitating a circular economy and net-zero emission goals.

Sustainably Driven

Our processes are engineered to achieve the lowest possible environmental footprint.

Socially Responsible

Our Indigenous and community engagement methodologies encourage and enable participation, alignment and social acceptance.

ENABLING TRANSITION

CARBONIX

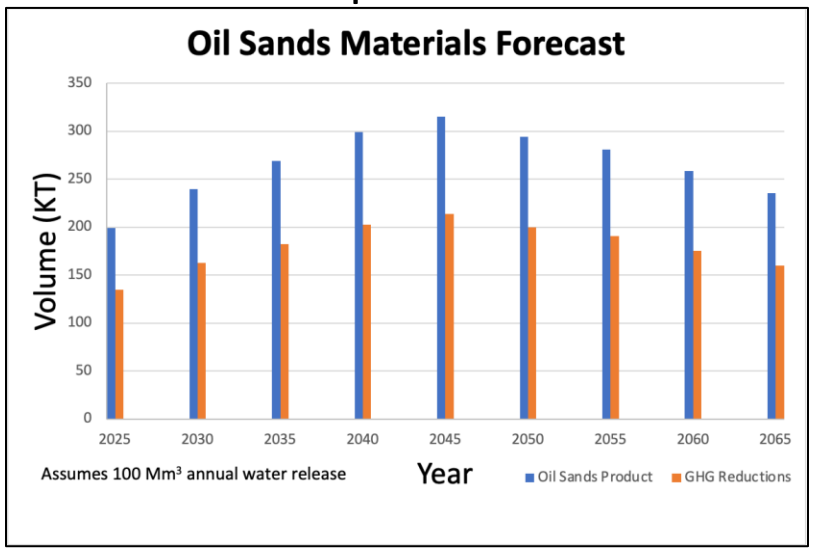
We bridge the resource extraction industry upstream responsibilities of the past with the new downstream opportunities of the future.

- Developing sustainable active carbons that facilitate achieving remediation obligations
- Enhancing ESG and economic performance through the circular economy of converting waste streams to value-add solutions
- Supporting the transition to zero emission fuels
- Producing critical materials for emerging energy storage technologies
- Mitigating climate-related financial risk
- Creating new revenue opportunities

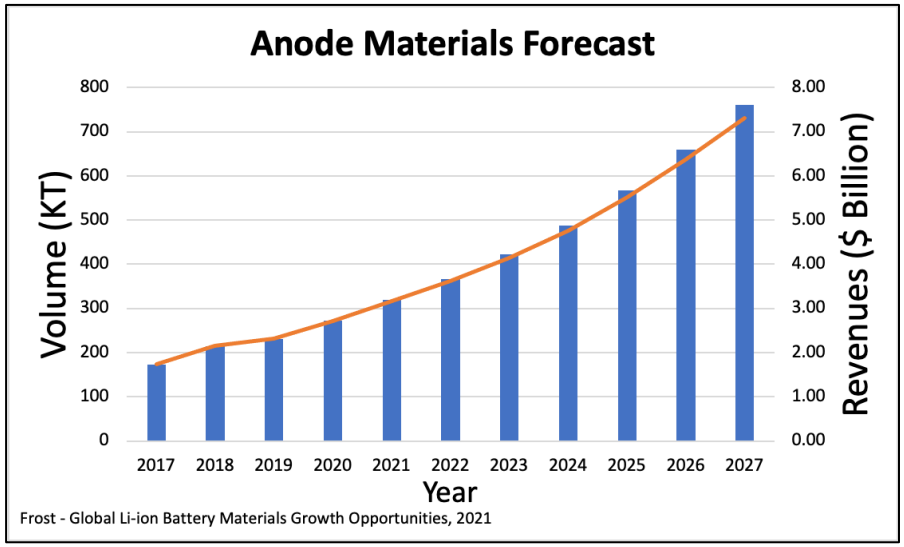
Market Size

CARBONIX

Upstream



Downstream



Oil Sands Obligations:

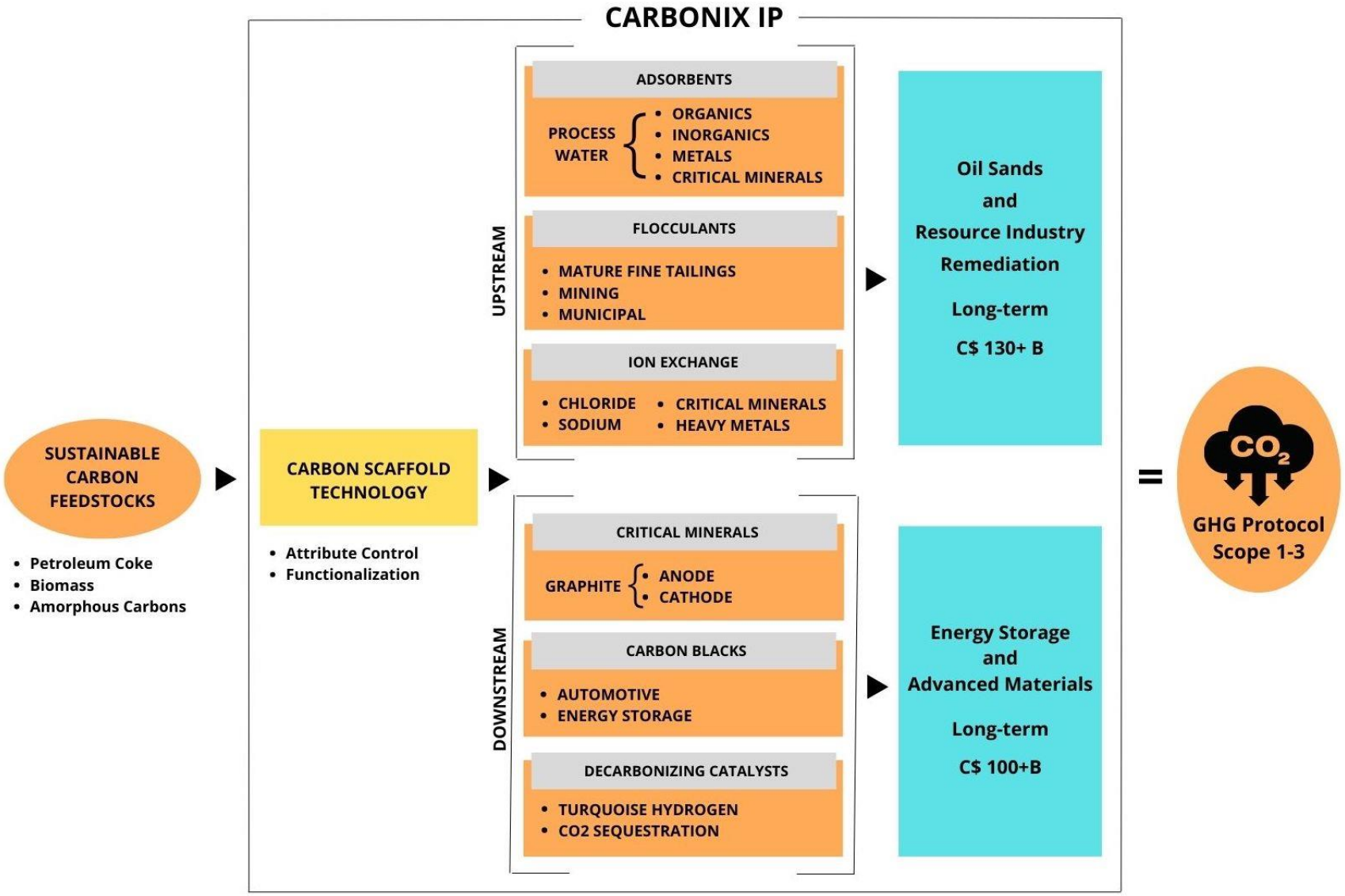
- To release clean process water back to the natural environment
- Strict regulator thresholds
- 50+ years of treatment required to process current and future inventories
- Indigenous communities will have oversight on release of water

Battery Material Solutions:

- Active anode and cathode materials
  - Lion, Metal-Air, Flow
- Higher energy densities
- Engineered solutions
  - Synthetic graphite
  - Electrode composites
- Supply security

PROCESS, PRODUCTS AND MARKETS

CARBONIX



CMIF Project

CARBONIX

Focus on refining the processes for converting mining waste, pet coke and hydrogen amorphous carbons, into high energy density graphite's:

- Graphitization
- Carbon/graphite functionalization
- Outreach
- IP

LEADERSHIP

CARBONIX

Paul Pede
President/CEO
30+ years tech at Cedara, Hydro One, Gilead Power & Carbonix

Marvin Pelletier
COO
30+ years resource dev FWFN, Gilead Power, Maawandoon & Carbonix

Darren Harper
Chief Engagement Officer
25+ years Indigenous engagement, GCT3, C of O, AFN, AKRC

Advisors:

- **R&D - Dr. Andrew Vreugdenhil Ph.D., Professor:** An expert in inorganic materials, materials characterization and adsorbate uptake/release processes.
- **Process Engineering - Dr. Michael Dry, Ph.D.:** A chemical engineer with specific expertise in process modelling (chemical modelling and mass/energy balancing).
- **Chemical Engineering - Jake Lang –** VP Operations, Base Metallurgical Laboratories.

RESEARCH TEAM:







FACILITIES: