September 2022









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The only proven and validated process for converting waste into syngas, bio & circular methanol and ethanol on a commercial scale (Edmonton)

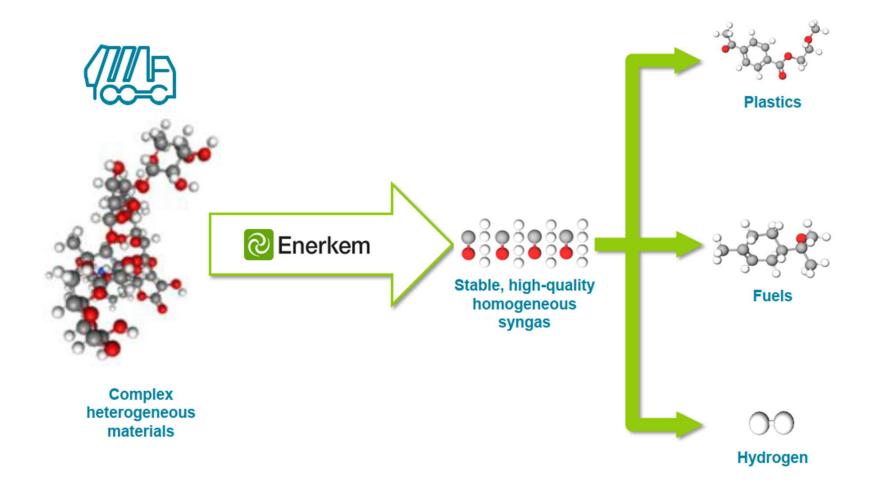
- ✓ Feedstock Flexibility: Proven ability to produce clean, stable syngas from a wide range of feedstocks
- ✓ Municipal, industrial and commercial solid waste, residual biomass and plastics.
- ✓ IMPCA Quality Methanol and Ethanol
- ✓ Achieved ISCC certification in 2015 for processing low-CI methanol into chemicals.



BRITISH COLUMBIA



WASTE VALORIZATION THRU ULTRA-CLEAN SYNGAS





'CARBON RECYCLING' PROCESS

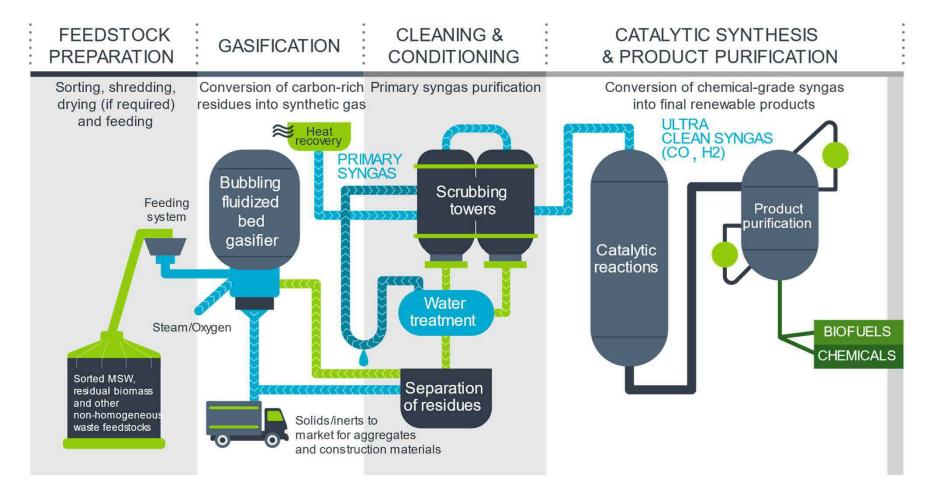


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Adaptability

Feedstock flexibility enables optimization of:

- Local waste market / Tipping fees
- D Biogenicity / Carbon recycling
- Biofuels targeted market applicable regulations (RFS, LCFS, RED II)
- □ Biofuels Carbon Intensity (CI)
- MSW, MRF & MBT residues and Biomass can be easily transformed into Biofuel or Chemicals with minimal refinement needed

The selected feedstock mix will have an impact on:

- Feedstock throughput (Quantity of RDF processed / year)
- □ Product yield (Tons per BDMT of feedstock)
- □ Realized product prices



Feedstock Track Record

Enerkem can use various levers in order to optimize feedstock strategy / project profitability





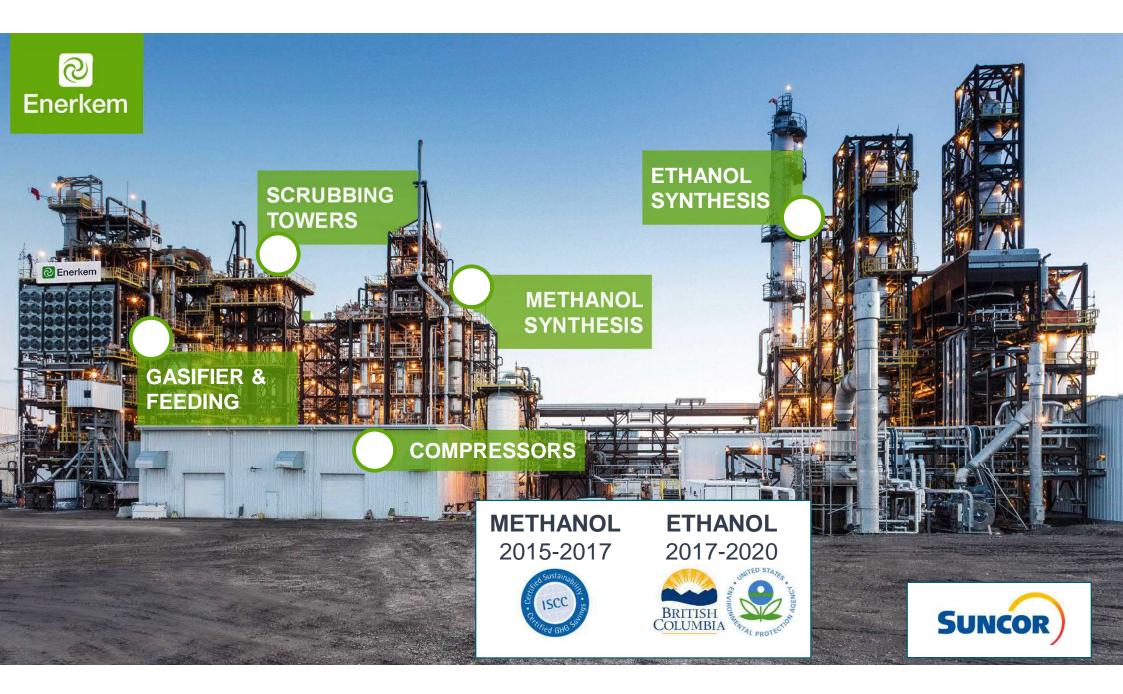












ADVANCED ENERGY RESEARCH FACILITY Edmonton, Alberta, Canada **DEMONSTRATION & INNOVATION CENTER** Westbury, Quebec, Canada

2 Enerkem

PILOT FACILITY Westbury, Quebec, Canada **FEEDSTOCK TESTING** Westbury and Edmonton

Image: Business Model: Enerkem FOCUS ON TECHNOLOGY DEPLOYMENT

- The Company has structured its business model along two streams to allow acceleration of commercial deployment
 - □ Enerkem Technologies to supply equipment/modules & technology
 - □ Enerkem Biofuels to participate in plant equity; capturing cash flows during the operating phase of the facilities



technology deployment business model

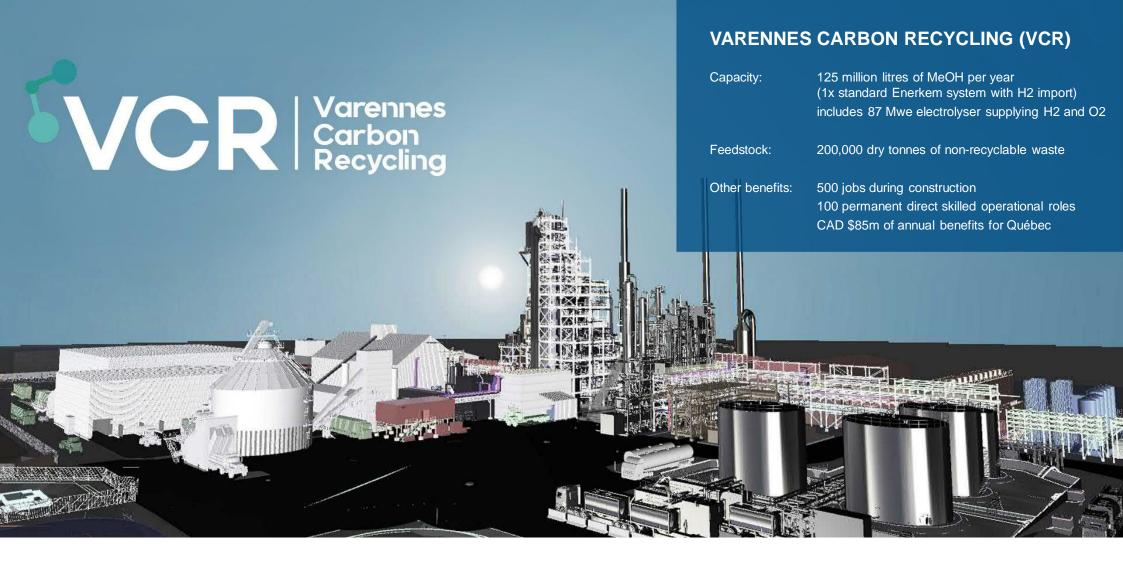
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engineering services & aftermarket services
Enables rapid commercialization of technology globally



NEAR TERM PROJECTS ROLLOUT STRATEGIC PARTNERS







Enerkem

SUNCOR



Hydro Québec

Investissement Québec

Québec 🕈 🚼

Canada



ECOPLANTA EL MORELL

Туре:	Commercial facility with two production lines
Input:	~360,000 metric tons of waste materials per year (2x standard Enerkem)
Feedstock:	Non-recyclable waste from the municipal, industrial, commercial and institutional sectors
Benefits:	over 65% reduction in GHG emissions vs. incumbent technologies
Output:	270 million liters per year
Products:	Biofuel & Circular Methanol
Status:	Permit application process completed, FID Q4 2022







Co-funded by the European Union

WASTE-TO-JET ROTTERDAM

Туре:	Commercial facility with two production lines
Input:	~360,000 metric tons per year (2x standard Enerkem system)
Feedstock:	reject fractions from waste recycling plants
Benefits:	70% reduction in GHG emissions
Output:	Up to 80,000 tons of renewable products
Product:	Sustainable Aviation Fuel (75%), Naphtha









Thank You !

MATTHIAS SCHMIDT

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