Technology Panel: What Technology Developments are Driving the Development of the Methanol Industry?
Enerkem at a Glance

- MSW-based biofuels and renewable chemicals producer
- Enerkem’s plant in Edmonton, Alberta, is the world’s first and only full-scale commercial biorefinery to use MSW to produce biofuels
- C$504 M invested to date to move from R&D to commercial stage
- Over 200 employees
An efficient “carbon-recycling” process

<table>
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<th>Feedstock preparation</th>
<th>Gasification</th>
<th>Cleaning and conditioning process</th>
<th>Catalytic synthesis and product purification</th>
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<td>Sorting, shredding, drying (if required) and feeding</td>
<td>Conversion of carbon-rich residues into synthetic gas</td>
<td>Primary syngas purification</td>
<td>Conversion of chemical-grade syngas into final renewable products</td>
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100k MT of RDF

50k to 100kMT per year of methanol depending on configuration

* Municipal solid waste
Waste2Chemicals Project in Rotterdam

- Flagship project for development of bio-based and circular economy in EU
  - **Input**: c.350,000 tonnes of non-recyclable, residual waste
  - **Output**: Up to 220,000 tonnes low-carbon, 'recycled' methanol
  - First 2-gasifier Enerkem project

- High level of integration with existing infrastructure in Port of Rotterdam
  - Pipeline connections for all key consumables and product off-take
  - Several synergies possible with complimentary plants located within the Port

- €53m in regional funding secured through competitive bid book process

- Joint venture project pursued in partnership with industry-leading consortium
  - All to participate in project with equity commitment
Location of Project in Port of Rotterdam