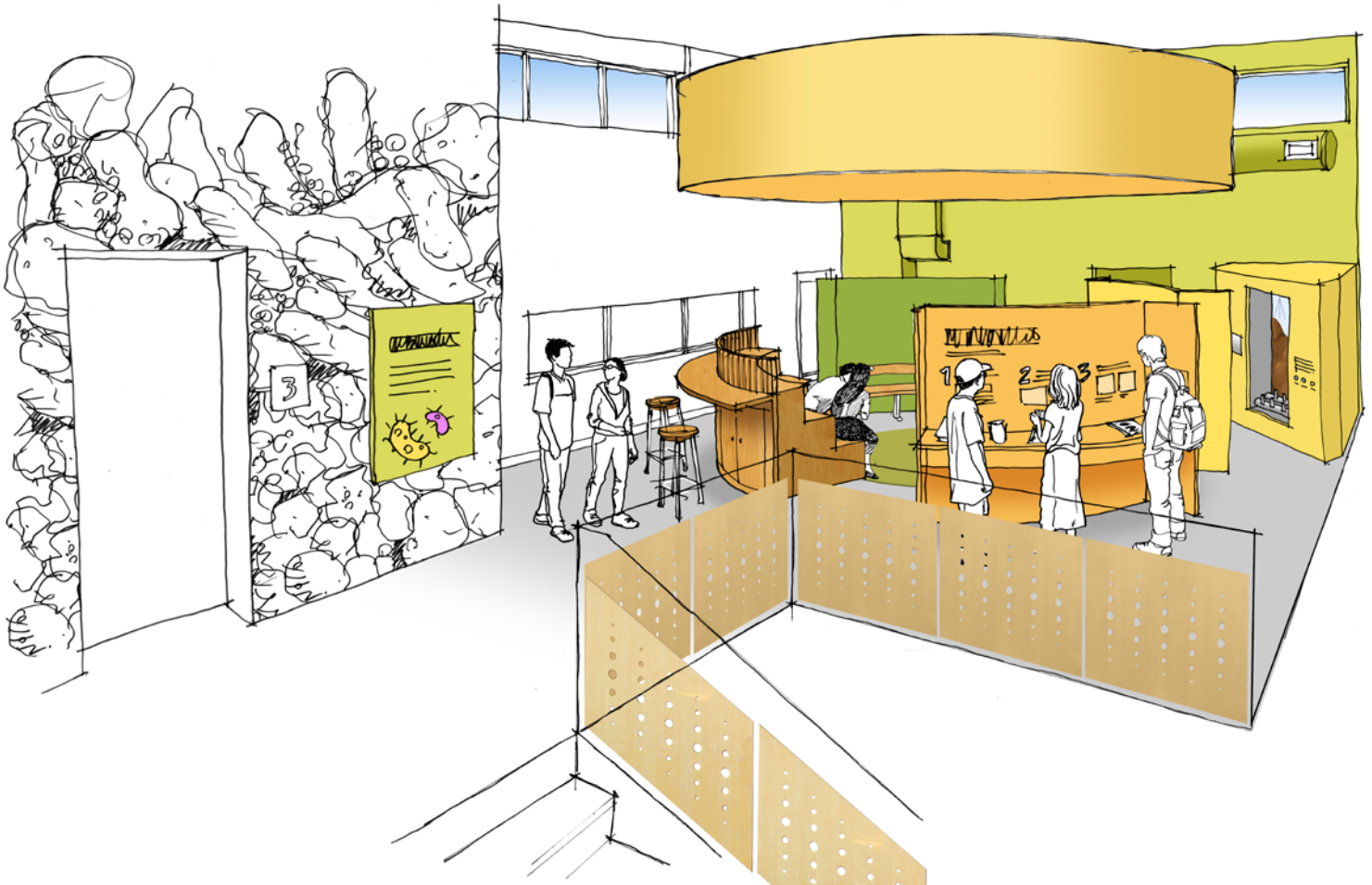


Surrey Biofuel Facility

Surrey, BC



Mucking about with microbes

The Surrey Biofuel Facility is a part of the City of Surrey's closed loop waste to energy system. It converts the City's organic waste into renewable natural gas (RNG) through anaerobic digestion.

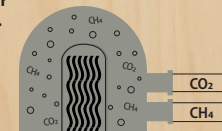
APA worked with the City of Surrey and its stakeholders to develop exhibits for the Education Centre at the facility. Highly interactive exhibits focus on engaging students in the science behind each step in the waste-to-energy process, as well as what their role is in this closed loop system.

Through several hands-on chemistry exhibits, mechanical interactives and digital experiences, kids get to try out many of the facility's technical and biological processes. They meet the hard-working microbes up close, step into a digital Anaerobic Digestion tunnel, try their hand at upgrading biogas into RNG and test the facility's four odour abatement treatments to ensure odours are eliminated. The exhibits are complemented by a tour of the facility itself.

Munching Microbes

Deep in the damp, airless Anaerobic Tunnels our microbes get to work.

As the microbes eat their way through the organic waste in the tunnels, they release biogas, a mixture of carbon dioxide (CO_2) and methane (CH_4) and other elements.



How much biogas can your microbe make?



We capture this biogas in the pipes above and send it to the Gas Tank.