

Conversion of St. Paul region solid waste to value added products – -Implementation plan: *Step 1*

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Overall of Goal

- **Establish an integrated regional solid waste conversion facility**

Such facility will provide:

- Reduce current cost for disposal MSW
- Stabilize the cost for handling MSW in long-term
- Divert waste from landfill
- Create jobs
- Reduce communities' carbon footprint

Specific Objectives of the pre-FEED Study

- Waste characterization study
- Examine a suitable governance model for the facility
- Review current available technologies
- Conduct a pre-FEED study (Front End Engineering Design)

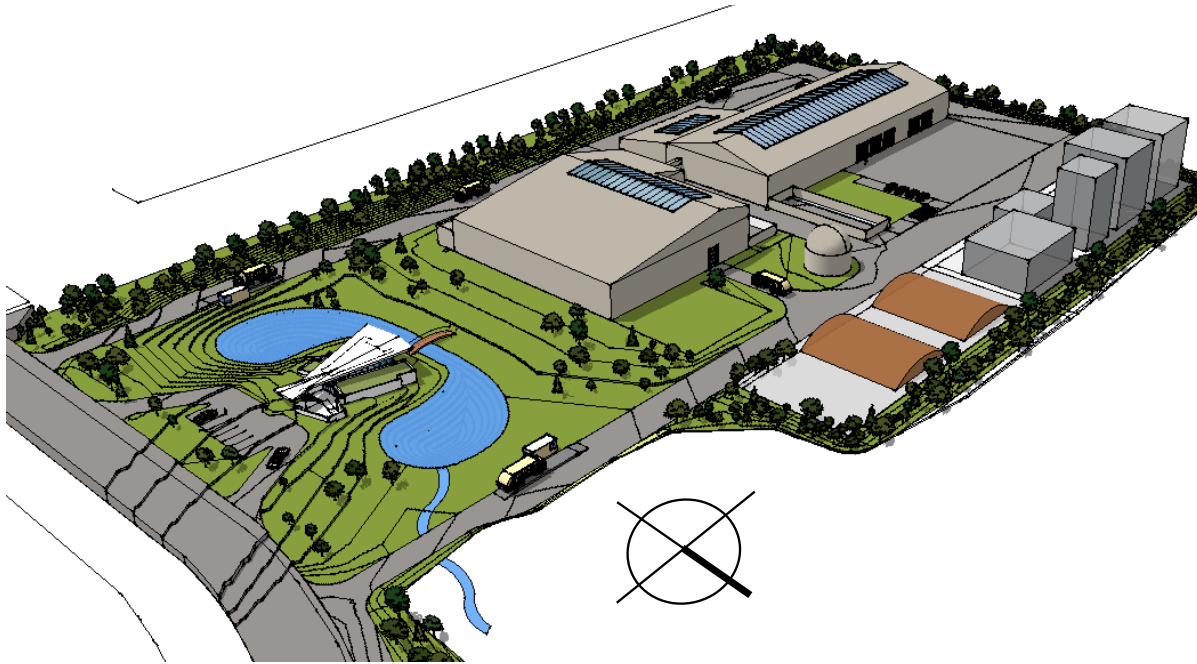
This facility will provide:

- Long-term stability for organics processing
- Divert a higher percentage of waste from landfill

Our Regional Facility

- Convert source separated organics (SSO) into power and heat and establish a solid waste sorting facility;
- Train and attract skilled workers for operating a waste to value-added facility, which will be needed for a larger facility (regional facility);
- Prepare a business case that can be used for other smaller municipalities.

Our Regional Facility



- Create jobs in communities
- Stabilize the cost for disposal of MSW to \$80-\$100/t

Implementation step I

- Convert source separated organics (SSO) into power and heat and establish a solid waste sorting facility;
- Train and attract skilled workers for operating a waste to value-added facility, which will be needed for a larger facility (regional facility);
- Prepare a business case that can be used for other smaller municipalities.

Step I consists of

Materials Recovery Facility (MRF) and Anaerobic Digestion



Closing thoughts

- Waste to value added facility for a small community is *feasible*
 - Creating local job
 - Stabilizing the cost of handling MSW
 - Reducing GHG emissions,
 - Greening our operations
 - Building sustainable and resilient communities

Acknowledgement

- Alberta Innovates
- Municipal Affair
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- Eco-Ouest / CDÉA