



**Modification Report**

**ZooShare Anaerobic Digester Project**

**Prepared by ZooShare Biogas LP, January 2022**



ZooShare Draft Modification Report  
**REA Number:** 4501-9VJK3N  
**IESO Reference Number:** FIT-GZYL5HF

**Applicant Contact Info:**

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**Project Description**

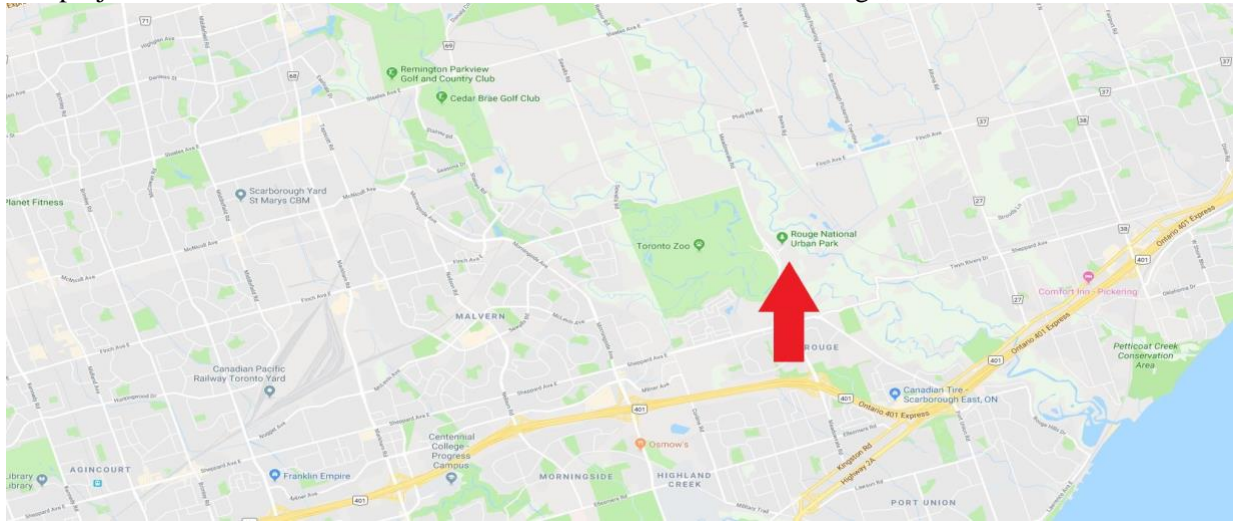
The project is a 500-kW anaerobic digester facility to be located near the Toronto Zoo in Scarborough, ON. The facility has a 20-year FIT contract and is permitted to receive manure (from the Zoo) in addition to liquid organic waste and FOG from grocery stores and other sources as feedstock. The anaerobic digester produces biogas which is combusted in a Combined Heat and Power engine (CHP) to produce 3 products:

1. Renewable electricity: sold to the Toronto Hydro Grid as per the FIT contract
2. Renewable heat: used by the facility to pasteurize incoming feedstock and to heat structures. Surplus heat could be sold to nearby customers in the future.
3. Digestate: this nutrient-rich renewable fertilizer will be sold to nearby farmers to offset the use of traditional chemical fertilizers.



## Map of the Project

The project is located on the east side of Meadowvale road in Scarborough, across from the Toronto Zoo.



A close-up of the project location is shown below.





### Summary of Proposed Changes

1. Updated Acoustic Assessment Report. As per the attached report, the noise sources (number of sources, locations and sound power levels) of ZooShare have changed from the noise sources identified in the original Renewable Energy Approval (REA).
2. Reduced frequency of testing, Change to Section:
  - a. I31. Subsequent sampling and analysis shall be conducted:
    - (1) annually, provided the Biomass is of the same type and is from the same source; and
    - (2) following any process changes, changes to the type and/or source of Biomass within the approved type and/or source of Biomass, operational issues or other factors that may affect the quality of Biomass from the proposed generator.

### REA Application Study List

Below is the list of reports submitted with the original REA application and an explanation of what (if anything has changed):

| Report Title  | Description of Change  |
|---|--|
| Acoustic Assessment Report prepared by Conestoga-Rovers & Associates Ltd., dated January 2015 and signed by Erik Martinez, P.Eng.     | Old report is replaced by the new report from GHD Engineering. See attached. |
| Archaeological Assessment (Stage 1) in the City of Toronto, Toronto Zoo Biogas Project PIF P338-023-2011. Dated August 15, 2011. TRCA | No changes required.   |
| Decommissioning Plan Report   | No changes required.   |
| Effluent Management Report  | No changes required.   |
| ESDM Emission Summary and Dispersion Modelling  | No changes required.   |
| Geotechnical Investigation  | No changes required.   |
| Heritage Self-Assessment Report   | No changes required.   |
| Hydrogeology Report   | No changes required.   |
| Odour Study Report  | No changes required.   |
| Project Description Report  | No changes required.   |
| Stormwater Management Report  | No changes required.   |
| Surface Water Assessment Report   | No changes required.   |
| Water Bodies Report   | No changes required.   |
| Design and Operation Report   | No changes required.   |