

General information

Public comment period begins: July 30, 2024
Public comment period ends: August 29, 2024

Name and address of Permittee:	Facility name and location:	MPCA contact person:
Dem-Con HZI BioEnergy LLC 13020 Dem Con Dr Shakopee, MN 55379-7200	Dem-Con HZI Bioenergy Address Unknown Shakopee, MN 55379 Scott County	Andrea Behrendt Industrial Division Minnesota Pollution Control Agency 520 Lafayette Rd St Paul, MN 55155 Phone: 651-757-2484 Email: andrea.behrendt@state.mn.us File manager phone: 651-757-2728 or 844-828-0942

A draft permit supporting information are available for review on the MPCA Public Notices webpage at <https://www.pca.state.mn.us/get-engaged/public-comments>. Additional materials relating to the issuance of this permit are available for inspection by appointment at any MPCA office (<https://www.pca.state.mn.us/about-mPCA/contact-us>) between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday. The MPCA will mail or email a copy of the draft permit upon request. Comments, petitions, and other requests must be received at the MPCA in writing on or before the public comment period end date and U.S. Mail comments must be received by 4:30 p.m.

Description of permitted facility

The permit action is for construction and operation of the facility. The permit action is the issuance of a Part 70 permit; therefore, the draft permit has been placed on public notice.

Dem-Con HZI Bioenergy (DC/HZI) will produce pipeline quality renewable natural gas (RNG) and biochar. The facility will be in Louisville Township, Scott County, Minnesota. DC/HZI will receive organics primarily from Washington & Ramsey Counties and first process the organics in anaerobic digesters to generate renewable natural gas for injection into a pipeline. Digestate from anaerobic digestion will then be dried and heated using pyrolysis causing thermal degradation of the digestate producing biochar and syngas. Biochar will be used on-site or sold to a third party for use as a soil amendment, remediation purposes, or carbon sequestration. Syngas will be vented to a thermal oxidizer to be combusted (with added air), blended with ambient air to reduce the temperature, and routed through the process to the dryer and cyclone, and then vented to an activated carbon injection and fabric filter system and liquid scrubber before venting to atmosphere.

A summary of the Potential to Emit (PTE) in tons per year is as follows:

Pollutant	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOCs	CO	CO _{2e}	Total HAP
Total Facility PTE	8.04	6.84	6.61	10.53	52.58	1.20	11.52	32,602	5.49

PM = Particulate Matter

PM_{2.5} = PM, 2.5 microns and smaller

NO_x = Nitrogen Oxides

CO = Carbon Monoxide

PM₁₀ = PM, 10 microns and smaller

SO₂ = Sulfur Dioxide

VOCs = Volatile Organic Compounds

CO_{2e} = Carbon Dioxide Equivalents as defined in Minn. R. 7007.0100

HAP = Hazardous Air Pollutant

The Permittee is not required to submit a pollution prevention progress report pursuant to Minn. Stat. § 115D.08.

The preliminary determination to issue this air permit is tentative.

Procedure for public participation

As stated in Minn. R. chs. 7000 and 7001, there are three formal procedures for public participation in the MPCA's consideration of this matter. Interested persons may:

- 1) Submit written comments on the draft permit.
- 2) Petition the MPCA to hold a public informational meeting.
- 3) Petition the MPCA to hold a contested case hearing.

Submitting written comments

Comments may be submitted:

- 1) Online at <https://mpca.commentinput.com/comment/search>; or
- 2) By U.S. postal mail to the following address:

Andrea Behrendt
Minnesota Pollution Control Agency
520 Lafayette Rd
St Paul, MN 55155

Submitted comments or petitions must state:

- 1) Your interest in the permit application or the draft permit.
- 2) The action you wish the MPCA to take, including specific references to the section of the draft permit you believe should be changed.
- 3) The reasons supporting your position, stated with sufficient specificity as to allow the MPCA to investigate the merits of the position.

Public informational meeting

A public informational meeting is an informal meeting during which interested persons can ask questions concerning the proposed facility. MPCA staff will be present to provide information. If an interested person would like the MPCA to hold a public informational meeting, the person should include all information identified above and in addition include a statement of the reasons the person desires the MPCA to hold a public informational meeting and the issues that the person would like the agency to address at the public informational meeting.

Contested Case Hearing

A contested case hearing is a formal proceeding before an administrative law judge empowered to advise the MPCA regarding issues of fact. As described in Minn. R. 7000.1800, persons who submit petitions for a contested case hearing must also state the issues they propose to address in a contested case hearing, the specific relief requested or resolution of the matter, and the reasons (which may be in the form of proposed findings) supporting an MPCA decision to hold a contested case hearing. Failure to comply with these rules exactly may result in a denial of the request. To the extent known, the petitioner may also submit a list of prospective witnesses to be called at a hearing, a proposed list of publications, references, or studies to be introduced at a hearing and the approximate time required for the petitioner to present the matter at a hearing. The decision whether to hold a contested case hearing will be made under Minn. R. 7000.1900.