

DANBY TOWNSHIP
ORDINANCE NO. _____

Adopted: 5-30-19
Effective Date: June 16, 2019

**AN ORDINANCE TO AMEND CHAPTER 3 OF THE DANBY TOWNSHIP
ZONING ORDINANCE TO ADD A NEW SECTION 3.24 SHOWN BELOW
IN ITS ENTIRETY.**

THE TOWNSHIP OF DANBY ORDAINS:

SECTION 1:

Insert the following definitions into Section 2.08 Definitions- G in alphabetical order:

GEOHERMAL ENERGY SYSTEM - A system that uses a heat pump to extract heat from the earth in a heating mode and/or reject heat into the earth in a cooling mode.

GEOHERMAL ENERGY SYSTEM, CLOSED-LOOP - A type of geothermal heating and/or cooling system that incorporates a pressurized heat exchanger consisting of pipe, a circulating pump, and a water-source heat pump in which the heat transfer fluid is not exposed to the atmosphere. The heat transfer fluid is potable or beneficial reuse water and may have approved antifreeze added.

GEOHERMAL ENERGY SYSTEM, OPEN-LOOP - A type of geothermal heating and/or cooling system that incorporates a water-supply well and a water pump to deliver ground water to a water-source heat pump. The discharge water from the water-source heat pump may be returned to the subsurface through a recharge well or infiltration bed, or may be discharged into a pond, lake, or stream. A spring may also be the source of the ground water supply.

SECTION 2:

Add the following Section 3.24 to Chapter 3, General Provisions:

Section 3.24 Geothermal Energy Systems

- A. Purpose. Danby Township supports and promotes the use of renewable energy systems that are sensitive to neighboring property and those that do not result in negative environmental or community impacts. As such, this section limits the allowable types of geothermal energy systems in the Township and regulates those systems determined to have lesser impacts on public health, safety, and welfare, and environmental quality.
- B. General Requirements. Geothermal energy system components shall conform to applicable industry standards, building codes, and this section.
- C. Open-Loop Geothermal Energy Systems. Open-loop geothermal energy systems are prohibited in Danby Township.
- D. Closed-Loop Geothermal Energy System. Closed-loop geothermal energy systems shall only be approved when an applicant demonstrates compliance with this section, and construction shall only commence after approval by the Zoning Administrator and after

the issuance of a mechanical permit by the Ionia County Building Official. Specific requirements include the following:

1. All above-ground equipment shall be a minimum of 10 feet from a side and rear lot line.
2. All components of a closed-loop geothermal energy system, including associated equipment, shall be located outside of easements, unless allowable per the easement restriction, and shall be outside of all public rights-of-way.
3. A site plan shall be provided to the Zoning Administrator to show setback compliance and type of system being proposed.

SECTION 2:

Validity and Severability. Should any portion of this Ordinance be found invalid for any reason, such holding shall not be construed as affecting the validity of the remaining portions of this Ordinance.

SECTION 3:

Repealer Clause. Any ordinances or parts of ordinances in conflict herewith are hereby repealed only to the extent necessary to give this Ordinance full force and effect.

SECTION 4:

Effective Date. This Ordinance shall be effective seven (7) days after publication.

ADOPTED:

Yeas: 4

Nays: 0

Absent: 1

STATE OF MICHIGAN)
)
 COUNTY OF IONIA)

I, the undersigned, the duly elected Clerk of Danby Township, Ionia County, Michigan, DO HEREBY CERTIFY that the foregoing is a true and complete representation of certain proceedings conducted by the Board of Trustees of said Township at a meeting held on this 30th day of May 2019.

Kristina Platte
Danby Township Clerk