134 − ALTERNATIVE ENERGIES

134.1 A permitted accessory Use Permit shall be required for any alternative energy system constructed in any district as so stated in this resolution.

134.2 A site plan shall be required to be filed with an application for a zoning permit for this use. A decommissioning plan will be required to be submitted.

134.3 Alternative Energy systems shall comply with the following requirements:

134.3.1 Permitted uses for all alternative energy systems:

134.3.2 Requirements for a small wind farm:

134.3.2.1 A small wind farm is defined by ORC 519.213 as having an aggregate generating capacity of less than 5 megawatt (MW) capacity

134.3.2.2 Each wind tower shall be back a distance equal to 1.1 times its total height from:

- Any Public right-of-way.
- Any overhead utility lines.
- All property lines.

134.3.2.3 A small wind farm shall comply with Federal Aviation Administration (FAA) regulations.

134.3.6 No part of the system, including guide wire anchors, may extend closer than twenty (20) feet to any property line.

134.3.7 All intra-project power lines and transmission lines associated with project shall be underground.

134.3.8 A small wind farm shall comply withal applicable building and electrical codes.

134.3.9 The tower shall be designed and installed so as to not provide climbing rungs from a level measured 10 feet from the finished grade and installed but not to exceed the manufactured specifications.

134.3.10 Small wind energy systems shall not exceed sixty (60) dBA, as measured at the closest neighboring dwelling.

134.3.11 Signs attached to any part of the wind farm structure are prohibited, except for, appropriate warning signs; owner identification of wind towers, building or structure associated with the farm and shall be in accordance with this resolution.

134.3.12 Small wind farms shall not be built on vacant lots.

134.3.13 Lighting from structure shall not trespass onto neighboring properties.

134.4 Requirements for Solar Panels or Arrays

134.4.1 All ground and roof mounted solar panels shall be in accordance with all setbacks in this resolution.

134 ALTERNATIVE ENERGIES DEFINITIONS

Db- (decibels): A unit of measure (abbreviated dB) used to compare sound intensities and subsequently electrical or electronic power outputs.

Decommissioning Plan: A submitted written plan describing that all properties will be restored to there original state before the project was started after the project is no longer used or in useable condition.

FAA: Federal Aviation Administration is an agency of the United States Department of Transportation with authority to regulate and oversee all aspects including safety of civil aviation in the United States.

Intra-project Power Lines: All power and transmission lines leading to and or away from any wind tower and or solar panel.

Small Wind Energy Systems: A single-towered wind energy system that;

a. Is used to generate electricity.
b. Has a rated name plate capacity of 50 kilowatts or less.
c. Has a total height of 150 feet or less.

Solar Energy Commercial Operations: **S**olar energy systems whose main purpose is to generate energy for sale back into grid system, rather than being consumed on site.

Solar Panel: A solar photovoltaic panel, or solar hot air or water collector device, which relies upon solar radiation as an energy source for the generation of electricity or transfer of stored heat.

Wind Energy System: Equipment that converts and then stores or transfers energy from the wind into usable forms of energy. This equipment includes any base blade, foundation, generator, nacelle, rotor, tower transformer, vane, wire, inverter, batteries, guide wires or other components used in the system.

Wind Tower: The monopole, freestanding, or guyed structure that supports a wind generator.

Wind Tower Total Height: The vertical distance from finished grade to the tip of the wind generator blade at its highest point.

Wind Turbine: The parts of a wind energy system including the blades and associated mechanical and electrical conversion components mounted on the top of the tower.