

**Item #1A:**

**Report Of The March 19, 2013 PCZBA Meeting:**

**A. Amendments To Village Code Re: Downtown Uses**



**MEETING AGENDA OF THE  
PLAN COMMISSION & ZONING BOARD OF APPEALS  
REGULAR MEETING**

**Tuesday, March 5, 2013 at 7:00 P.M.**

**Village Hall, 3110 OLD MCHENRY ROAD LONG GROVE, ILLINOIS**

1. **Call to Order.**
2. **New Business; Public Hearing (s)** - Consideration of a request for amendment(s) to the Village Code for the Village of Long Grove, and specifically:
  - a). Title 5, Chapter 12, Section 5-12-13 "Definitions" of the Zoning Regulations, for the Village of Long Grove, regarding definitions of restaurant types, and;
  - b). Creation of Alternative Energy Source regulations.
3. **Approval of Minutes; January 15, 2013**
4. **Other Business; None**
5. **Adjournment:**

**Next Regular Meeting – April 2, 2013**

**Village Board Representative; (3/12/13) Commissioner Phillips.**

The Village of Long Grove is subject to the requirements of the Americans with Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting or the facilities, are requested to phone David Lothspeich, Long Grove Village Manager at 847-634-9440 or TDD 847-634-9650 promptly to allow the Village of Long Grove to make reasonable accommodations for those persons.

**MEETING  
PROCEDURES**

Plan Commission meeting follow the procedures outlined below. In the spirit of fairness to all parties, any of these procedures may be modified for a particular item at the discretion of the Chair.

1. Introduction of item by the Chair.
2. Village Staff's summary of Petition.
3. Presentation by the Petitioner.
4. Public Testimony and Comment.
5. Cross-Examination.
6. Response by the Petitioner.
7. Questions by the Commission.
8. Commission Discussion and Deliberation.
9. Commission Action.



## MEMORANDUM

TO: Village of Long Grove Planning Commission & Zoning Board of Appeals  
FROM: JAMES M. HOGUE, Village Planner  
DATE: February 22, 2013  
RE: Ordinance Amendment – Definition of restaurant types.

### History

During the public hearing of a SUP request for a limited service restaurant (NAICS 722211) in the Sunset Grove development the PCZBA debated the differences between “fast food” and “limited service restaurants”. At that hearing Attorney Del Percio clarified the distinction by indicating while all fast food restaurants are limited service establishments not all limited service establishments are “fast food”.

Ultimately the PCZBA identified key characteristics of that distinction (specific to that particular proposal) to include orders or selected entree items being made to customers’ specification (as opposed to being pre-made and waiting for customer purchase); Food and drink being consumed on premises with sit down service including plates and silverware (as opposed to “paper, plastic, or other disposable containers being used) and delivery food items to customers' location as all being characteristic of a limited service restaurant. The PCZBA also suggested an amendment to the Village Zoning Code further defining these characteristics.

At their February 12<sup>th</sup> meeting the Village Board referred an ordinance amendment for the definitions of restaurants (e.g. limited service restaurants vs. fast food restaurants) to the PCZBA for Public Hearing.

### Current Zoning Definitions

Presently the Zoning Code defines two types of restaurants as follows;

**RESTAURANT, FAST FOOD:** *An establishment whose principal business is the sale of food and/or beverages in a ready to consume state for consumption: a) within the restaurant building, b) within a motor vehicle parked on the premises, or c) off the premises as carryout orders, and whose principal method of operation includes the following characteristics: food and/or beverages are usually served in edible containers or in paper, plastic, or other disposable containers; and,*

**RESTAURANT, STANDARD:** *An establishment whose principal business is the sale of food and/or beverages to customers in a ready to consume state, and whose principal method of operation includes one or both of the following characteristics:*

*(A) Customers, normally provided with an individual menu, are served their foods and beverages by a restaurant employee at the same table or counter at which food and beverages are consumed;*

*(B) A cafeteria type operation where food and beverages generally are consumed within the restaurant building.*

The PUD approval for the Sunset Grove Development introduced the concept of the “Limited Service Restaurant”, as opposed to a “fast food” restaurant as defined by the “North American Industry Classification System” (NAICS);

#### **NAICS 722211: Limited-Service Restaurants**

This U.S. industry comprises establishments primarily engaged in providing food services (except snack and nonalcoholic beverage bars) where patrons generally order or select items and pay before eating. Food and drink may be consumed on premises, taken out, or delivered to customers' location. Some establishments in this industry may provide these food services in combination with selling alcoholic beverages.

#### **Comments and Conclusions**

Counsel has provided the attached sample restaurant definitions for reference. These definitions identify the NAICS restaurant categories and include some definitions from surrounding communities. Of note is the lack of uniformity of these definitions for the various types of restaurants and distinctions between “fast food” other restaurant types including limited service. As a starting point, consideration should be given to the elements of fast food restaurants that make them less desirable than other limited service restaurants and definitions drafted accordingly.

Should you have any questions or concerns feel free to contact me at (847) 634-9440.

## NAICS

### 722511 Full-Service Restaurants

This U.S. industry comprises establishments primarily engaged in providing food services to patrons who order and are served while seated (i.e., waiter/waitress service) and pay after eating. These establishments may provide this type of food service to patrons in combination with selling alcoholic beverages, providing carryout services, or presenting live nontheatrical entertainment.

Cross-References. Establishments primarily engaged in--

- Providing food services where patrons generally order or select items and pay before eating--are classified in U.S. Industry 722513, Limited-Service Restaurants;
- Selling a specialty snack or nonalcoholic beverage for consumption on or near the premises--are classified in U.S. Industry 722515, Snack and Nonalcoholic Beverage Bars;
- Preparing and serving alcoholic beverages and known as bars, taverns, or nightclubs--are classified in Industry 722410, Drinking Places (Alcoholic Beverages); and
- Presenting live theatrical productions and providing food and beverages for consumption on the premises--are classified in Industry 711110, Theater Companies and Dinner Theaters.

2002 NAICS	2007 NAICS	2012 NAICS	Corresponding Index Entries
722110	722110	722511	Bagel shops, full service
722110	722110	722511	Diners, full service
722110	722110	722511	Doughnut shops, full service
722110	722110	722511	Family restaurants, full service
722110	722110	722511	Fine dining restaurants, full service
722110	722110	722511	Full service restaurants
722110	722110	722511	Pizza parlors, full service
722110	722110	722511	Pizzerias, full service
722110	722110	722511	Restaurants, full service
722110	722110	722511	Steak houses, full service

## 722513 Limited-Service Restaurants

This U.S. industry comprises establishments primarily engaged in providing food services (except snack and nonalcoholic beverage bars) where patrons generally order or select items and pay before eating. Food and drink may be consumed on premises, taken out, or delivered to the customer's location. Some establishments in this industry may provide these food services in combination with selling alcoholic beverages.

### Illustrative Examples:

Delicatessen restaurants  
Pizza delivery shops  
Family restaurants, limited service  
Takeout eating places  
Fast-food restaurants  
Takeout sandwich shops  
Limited-service pizza parlors

### Cross-References. Establishments primarily engaged in--

- Preparing and serving meals for immediate consumption using cafeteria-style serving equipment, known as cafeterias--are classified in U.S. Industry 722514, Cafeterias, Grill Buffets, and Buffets;
- Providing food services to patrons who order and are served while seated and pay after eating--are classified in U.S. Industry 722511, Full-Service Restaurants;
- Selling a specialty snack (e.g., ice cream, frozen yogurt, candy, cookies) or nonalcoholic beverages, for consumption on or near the premises--are classified in U.S. Industry 722515, Snack and Nonalcoholic Beverage Bars;
- Retailing confectionery goods and nuts not packaged for immediate consumption--are classified in U.S. Industry 445292, Confectionery and Nut Stores;
- Retailing baked goods (e.g., pretzels, doughnuts, cookies, and bagels) not baked on the premises and not for immediate consumption--are classified in U.S. Industry 445291, Baked Goods Stores; and
- Preparing and serving alcoholic beverages, known as bars, taverns, or nightclubs--are classified in Industry 722410, Drinking Places (Alcoholic Beverages).

2002 NAICS	2007 NAICS	2012 NAICS	Corresponding Index Entries
722211	722211	722513	Carryout restaurants

722211	722211	722513	Delicatessen restaurants
722211	722211	722513	Drive-in restaurants
722211	722211	722513	Family restaurants, limited-service
722211	722211	722513	Fast-food restaurants
722211	722211	722513	Pizza delivery shops
722211	722211	722513	Pizza parlors, limited-service
722211	722211	722513	Pizzerias, limited-service (e.g., take-out)
722211	722211	722513	Restaurants, carryout
722211	722211	722513	Restaurants, fast food
722211	722211	722513	Sandwich shops, limited-service
722211	722211	722513	Steak houses, limited-service
722211	722211	722513	Take out eating places

**FOOD SERVICE USES –**

**CARRY-OUT FOOD SERVICE:** A service which is accessory to a full service restaurant or commercial retail establishment which sells food or beverages to the customer in a ready-to-consume state, and whose design or method of operation includes serving foods or beverages in edible containers or in paper, plastic, Styrofoam, or other disposable containers. This does not include temporary uses regulated by Article 6, Part 5 of this Chapter.

**DELIVERY, FOOD SERVICE:** A service which is accessory to a full service restaurant or limited service restaurant which provides home delivery of food or beverages for immediate consumption and which has two (2) or more delivery vehicles.

**RESTAURANT, FULL SERVICE:** A business whose principal purpose is the sale and on-site consumption of food or beverages, where items are ordered from an individual menu and served by wait staff on non-disposable tableware. This shall not include a limited service restaurant or convenience food mart.

**RESTAURANT, LIMITED SERVICE:** A business whose principal purpose is the sale of food or beverages where the food or beverages which is paid for before consumption, or are ordered from a fixed menu board, or are served in paper, plastic, Styrofoam, or other disposable containers for immediate consumption on or off the premises.

## Lake Forest

RESTAURANT is any building or part thereof, other than a boarding house, where food ready for consumption is sold at retail to the public. This shall include:

DRIVE-IN ESTABLISHMENTS operated for the sale, dispensing or serving of food, frozen desserts, or beverages, as defined in Section 46-2-(B)-(22) of this Chapter.

FAST FOOD RESTAURANT is any restaurant which does not meet the criteria for a STANDARD RESTAURANT or DRIVE-IN ESTABLISHMENT as herein defined, provided, however, that the foregoing definition shall not apply to the operation of a retail food store which incidentally prepares individual food orders such as sandwiches, meats, cheeses, salads, or similar items.

STANDARD RESTAURANT is any establishment where food, frozen desserts or beverages are available in a ready to consume state and where customers are normally provided with an individual menu are served their food or beverages from a kitchen fully equipped for the preparation of complete meals by a restaurant employee at the same table or counter at which said items are consumed, and typically the food, frozen dessert, or beverage are served with reusable dishes and utensils. The fact that a standard restaurant shall incidentally prepare food for off premises consumption in disposable containers shall not prevent it from being classified as a standard restaurant.

## Winnetka

Restaurant. "Restaurant" means a place of business where the principal use is the sale at retail to the customer of food and beverages ready for consumption; provided that, a bakery or candy, confectionery, ice cream or nut shop shall not be considered a restaurant.

Restaurant, Drive-in. "Drive-in restaurant" means a restaurant where food is offered or served directly to the customer sitting in or on a motor vehicle, whether parked on or moving through the premises, and whether as a principal or accessory use.

Restaurant, Fast Food. "Fast food restaurant" means a restaurant where food is principally offered or served on or in disposable tableware or containers for immediate consumption on or away from the premises. A "fast food restaurant" includes a business which provides home delivery or customer pick up services.

Restaurant, Standard. "Standard restaurant" means a restaurant where food is principally offered or served on or in nondisposable tableware for immediate consumption on the premises. The fact that a standard restaurant may incidentally prepare meals and similar menu items for off premises consumption in disposal containers shall not prevent it from being classified as a standard restaurant.

**LEGAL NOTICE  
VILLAGE OF LONG  
GROVE, ILLINOIS  
NOTICE OF A PUBLIC  
HEARING FOR  
CONSIDERATION OF  
AMENDMENTS TO THE  
ZONING CODE AND THE  
VILLAGE OF LONG  
GROVE, ILLINOIS  
REGARDING  
DEFINITIONS, AND  
ALTERNATIVE ENERGY  
SOURCES.**

PUBLIC NOTICE IS HEREBY GIVEN that on Tuesday, March 5, 2013 at 7:00 P.M., a public hearing will be held at the regular meeting of the Plan Commission & Zoning Board Appeals of the Village of Long Grove, Lake County, Illinois, at the Long Grove Village Hall, 3110 RFD, Long Grove, Illinois 60047 (unless otherwise posted), in connection with a proposal for amendments to Title 5 of the Village Code for the Village of Long Grove, regarding Definitions and Alternative Energy Sources. Persons attending the hearing shall have the opportunity to provide written and oral comments and questions concerning the proposed amendments. The Plan Commission & Zoning Board of Appeals reserve the right to continue the hearing to a later date and time should that become necessary. James M. Hogue  
Village Planner  
Village of Long Grove  
Published in Daily Herald  
February 18, 2013 (4330605)

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**Daily Herald**

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IN WITNESS WHEREOF, the undersigned, the said **PADDOCK PUBLICATIONS, Inc.**, has caused this certificate to be signed by, this authorized agent, at Arlington Heights, Illinois.

**PADDOCK PUBLICATIONS, INC.  
DAILY HERALD NEWSPAPERS**

BY *Paula Baltz*  
Authorized Agent

Control # 4330605



**Item #1B:**

**Report Of The March 19, 2013 PCZBA Meeting**

**B. Amendments To Zoning Code Re: Alternative Energy Devices**



MEMORANDUM

**TO:** Village of Long Grove Planning Commission & Zoning Board of Appeals  
**FROM:** JAMES M. HOGUE, Village Planner  
**DATE:** February 26, 2013  
**RE:** Public Hearing – Creation of Alternative Energy Source regulations

**PUBLIC HEARING** – Consideration of a request for amendment (s) to the Village Code for the Village of Long Grove, regarding the creation of Alternative Energy Source regulations in the Village of Long Grove, Illinois.

Attached for discussion are draft regulations dealing with alternative energy sources including wind, solar and geo thermal energy. Please review and be prepared to discuss these regulations at the meeting of the 5<sup>th</sup>.

These are draft regulations for discussion purposes and a starting point for drafting alternative energy regulations.

Should you have any questions or concerns feel free to contact me at (847) 634-9440.

**VILLAGE OF LONG GROVE**

**ORDINANCE NO. 2013-O-\_\_**

**AN ORDINANCE AMENDING THE LONG GROVE ZONING CODE  
REGARDING WIND ENERGY SYSTEMS**

Adopted by the  
President and Board of Trustees  
of  
the Village of Long Grove  
this \_\_th day of \_\_\_\_\_, 2013

Published in pamphlet form by direction  
and authority of the Village of Long Grove,  
Lake County, Illinois  
this \_\_th day of \_\_\_\_\_, 2013

VILLAGE OF LONG GROVE

ORDINANCE NO. 2013-O-\_\_

AN ORDINANCE AMENDING THE LONG GROVE ZONING CODE  
REGARDING WIND ENERGY SYSTEMS

WHEREAS, the Long Grove Zoning Code ("*Zoning Code*") regulates the development and use of land within the Village of Long Grove; and

WHEREAS, the Village President and Board of Trustees desire to encourage the responsible development and use of alternative sources of energy within the Village in conformance and harmony with the existing land development and use patterns of the Village; and

WHEREAS, in order to allow for the development and use of wind energy in the Village while preserving the public health, safety, and welfare of the residents of the Village, the Village desires to amend the Zoning Code to adopt regulations governing the location, installation, operation, maintenance, and decommissioning of wind energy systems in the Village (collectively, the "*Proposed Amendments*"); and

WHEREAS, pursuant to notice duly published in the *Daily Herald*, the Long Grove Plan Commission/Zoning Board of Appeals ("*PCZBA*") conducted a public hearing on \_\_\_\_\_, 2013, concerning the Proposed Amendments; and

WHEREAS, at the conclusion of the public hearing, the PCZBA made findings and recommended that the Board of Trustees adopt the Proposed Amendments, as set forth in this Ordinance; and

WHEREAS, having considered the findings and recommendations of the PCZBA, the President and Board of Trustees have found and determined that the adoption of the Proposed Amendments, as set forth in this Ordinance, is in the best interests of the Village and its residents.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND THE BOARD OF TRUSTEES OF THE VILLAGE OF LONG GROVE, LAKE COUNTY, ILLINOIS, as follows:

**SECTION ONE:**    **Recitals.** The foregoing recitals are incorporated into and made part of this Ordinance by this reference.

**SECTION TWO:**    **Amendment of Title IV.** Article IX, entitled "District Regulations of General Applicability," of the Zoning Code is hereby amended to add a new Section 9-111, which Section 9-111 shall read as follows:

**"9-111 WIND ENERGY SYSTEMS**

A.    **Purpose.** The purpose of this Section 9-111 is to:

1.    Establish reasonable and uniform regulations for the location, installation, operation, maintenance, and decommissioning of Building-Mounted Wind Energy Systems (BWES) and Small Wind Energy Systems (SWES);
2.    Assure that any development and production of wind-generated electricity in the Village is safe and to minimize any potentially adverse effects on adjoining properties and the broader community;
3.    Facilitate the development and production of wind-generated electricity in the Village in a manner consistent with the predominately low density, countryside character of the Village;
4.    Promote the supply of sustainable and renewable energy resources, in support of national, state, and local goals; and
5.    Facilitate energy cost savings and economic opportunities for Village residents and businesses.

B.    **Definitions.** Notwithstanding Section 12-13 of this Code, when used in this Section 9-111, the following terms shall have the meanings herein ascribed to them:

**Abandoned WES:** A WES that has not been repaired to operating condition within the applicable timeframe set forth in Paragraph 9-111C12 of this Section, or for which the owner has not made all submissions required pursuant to Subsection 9-111F of this Section.

**Ambient Sound:** The all-encompassing sound at a given location, usually a composite of sounds from many sources near and far. For the purpose of this Code, the "ambient sound level" shall mean the quietest of ten 10-second average sound levels measured when there are no nearby or distinctly audible sound sources (e.g., dogs or jets). Daytime ambient measurements should be made during mid-morning weekday hours, while nighttime measurements should be made after midnight.

**Blade:** The portion of a WES that is designed to capture the wind, causing the shaft to turn.

**Blade Tip:** The farthest extremes of a blade.

**Daytime hours:** The hours of the day from 7:00 am to 10:00 pm.

**Decibel (dB):** The unit of sound level based on a reference where 0 dB represents the threshold of hearing at 1000 Hz for a healthy young adult.

**FAA:** The Federal Aviation Administration of the United States Department of Transportation.

**FCC:** The Federal Communications Commission.

**Height:** When used in reference to a WES, "height" shall mean the vertical distance measured from grade to the highest point of the WES. When used in reference to any other structure, "height" shall have the meaning set forth in Section 12-206 of this Code.

**High Quality Aquatic Resource:** Waters of the United States or Isolated Waters of Lake County that are determined to be critical due to their uniqueness, scarcity, function and/or value, in accordance with the Lake County Watershed Development Ordinance.

**Horizontal Axis Wind Turbine (HAWT):** A Turbine for which the main rotor shaft is arranged horizontally, and typically for which the main rotor shaft and generator are located at the top of the tower on which the WES is mounted and pointed into the wind in order to generate electricity.

**Low-Frequency Sound:** Sound with frequencies below 100 Hz, including audible sound and sound at a frequency below that of human hearing (i.e. infrasound).

**Nacelle:** That part of a turbine containing the shaft, gear box, and generator.

**Nameplate Wattage:** The amount of energy produced from a WES at maximum or optimum wind speeds within one hour, as indicated by the manufacturer.

**Nighttime hours:** The time between 10:00 pm on one calendar day and 7:00 am on the next calendar day.

**Nonparticipating Property:** A property that is not owned by the owner of the property on which the WES is proposed or installed.

**Operable Condition:** For any WES, the condition of being capable of operating at full capacity while meeting all sound, shadow flicker and other applicable conditions set forth in this Code.

**Shadow Flicker:** The on-and-off strobe light effect caused by the shadow of moving blades cast by the sun upon a turbine's blades.

**Shadow Flicker Intensity:** The difference or variation in brightness at a given location in the presence and absence of a shadow.

**Silhouette:** The area covered by moving blades of a WES turbine, as viewed from the front elevation, described in square feet.

**Sound Level:** The A-weighted sound level in decibels (dB) (or the C-weighted level, if specified).

**Structural Engineer:** An Engineer who is licensed and registered to practice structural engineering in the State of Illinois under the Illinois Structural Engineering Act and whose principal professional practice is in the field of structural engineering.

**Sun Glint:** The reflection of sunlight off of a surface of the turbine, tower, or other component of a WES.

**Tower:** The structure on which a turbine is mounted, which structure is a component of a WES.

**Turbine:** The blades, nacelle, and tail of a WES.

**Vertical Axis Wind Turbine (VAWT):** A Turbine of which the main rotor shaft is arranged vertically and that does not need to be pointed into the wind in order to generate electricity.

C. General Regulations. Except as specifically provided otherwise in Subsections D and E of this Section 9-111, all WES shall comply with the general regulations set forth in this Subsection 9-111C.

1. Compliance with Laws. All WES shall comply with all applicable Village, state, and federal laws and regulations, including, without limitation, the provisions of this Section 9-111, this Code, and all Village building ordinances and regulations.

2. Compliance with Permits. All WES shall comply with all applicable WES permits issued pursuant to this Section 9-111, including, without limitation, all conditions imposed by the Village as a condition of issuance of the permits.
3. Horizontal Axis Wind Turbines Prohibited. No WES may include a Horizontal Axis Wind Turbine at any location for any use within the Village.
4. Interference with Utilities, Roads, and Neighboring Properties. No WES shall be operated in a manner so as to interfere with any public right-of-way or any utility system in the Village, or so as to interfere with the reasonable use and enjoyment of any other property in the Village.
5. General Engineering Regulations.
  - (a) All WES facilities shall be designed to withstand a minimum wind velocity of 120 miles per hour.
  - (b) Each WES shall conform to all applicable industry standards, including, without limitation, the standards developed by the American National Standards Institute (ANSI).
  - (c) All WES facilities shall be equipped with automatic and manual braking systems.
6. General Installation Regulations.
  - (a) WES facilities must be installed according to manufacturer specifications.
  - (b) All necessary electrical connections must be made by a licensed electrician.
7. General Sound Level Regulations.
  - (a) The average sound level produced by a WES shall not exceed the following maximums in the following locations:
    - (i) On any Nonparticipating Property located within a Residential District or the College District, or used for residential purposes or for a school: 50 dB(A) during daytime hours, and 40 dB(A) during nighttime hours;

- (ii) On any Nonparticipating Property used for industrial purposes, 65 db(A) at any time; and
  - (iii) On any other Nonparticipating Property, 60 db(A) at any time.
- (b) No WES shall operate with an average sound level more than 10 dB(A) above the non-operational ambient sound level, as measured on any Nonparticipating Property used for residential purposes or for a school that is within 500 feet of the WES, or, if none, on any other Nonparticipating Property.
  - (c) To limit the level of low-frequency sound, the average C-weighted sound level during WES operation shall not exceed the A-weighted ambient sound level by more than 20 dB.
  - (d) Sound level meters used for sound measurement must meet the requirements of a Type 2 or better precision instrument according to ANSI S1.4 (American National Standard Specification for Sound Level Meters), and must measure the average sound level using an integrating sound level meter that meets the requirements of ANSI S1.43 (American National Standard Specifications for Integrating Averaging Sound Level Meters). Average sound-level shall be calculated by time-averaging sound levels for a period of not less than one minute nor more than two minutes. Measurements shall not be made when ground level winds exceed 10 miles per hour.

8. General Shadow Flicker Regulations.

- (a) No shadow flicker caused by any WES shall fall on any Nonparticipating Property that is either located in a Residential District or in the College District, or that is used for residential purposes or for a school:
  - (i) at any time upon any building on a Nonparticipating Property that exists as of the date of first operation of the WES; or
  - (ii) for more than 50 hours in a calendar year upon any portion of the buildable area of the Nonparticipating Property.

- (b) No shadow flicker caused by any WES shall fall on any Nonparticipating Property that is not located in a Residential District or in the College District, and that is not used for residential purposes or for a school:
  - (i) for more than one hour on any calendar day on any window of a building that exists as of the date of first operation of the WES; or
  - (ii) for more than 50 hours in a calendar year upon any portion of the buildable area of any Nonparticipating Property. In the event that an existing WES causes shadow flicker on a particular window of a Nonparticipating Property, no other WES may be constructed or operated in a manner that would cause shadow flicker on that window in excess of the limitations set forth in this Subparagraph 9-111C8(b) except upon issuance of a special use permit therefor by the Village Board of Trustees.
- (c) As a condition of any permit issued pursuant to this Section 9-111, the Village may require the Applicant to commit to a schedule for turning WES turbines off, in order to ensure compliance with the applicable shadow flicker regulations set forth in this Paragraph 9-111C8.

9. Cessation of Operation in Emergency. The owner of the WES shall be required to immediately cease operation of the WES for the duration of any emergency, as determined by the Village. For purposes of this Paragraph 9-111C9, an emergency shall mean a condition or situation caused by the WES or a natural or manmade disaster that presents an imminent physical threat of danger to life or significant threat to property.

10. Electronic Interference. WES facilities shall not be operated so as to cause electromagnetic degradation in performance of microwave, television, radio, internet or other wireless transmissions, including public emergency communications systems, in a manner contrary to FCC regulations or other federal, state or local laws. For purposes of this Paragraph 9-111C10, "degradation in performance" shall be determined in accordance with the latest principles and standards of the American Institute of Electrical Engineers, the Institute of Radio Engineers, and the Electrical Industries Association.

11. Maintenance.

- (a) WES facilities shall be maintained in Operable Condition at all times, except for reasonable maintenance and repair outages.
- (b) Should a WES become inoperable, or should any part of the WES become damaged, or should a WES violate a permit condition, the owner of the WES shall cease operations immediately and remedy the condition within 90 days after receipt of a notice from the Village regarding the condition; provided, however, that if the condition presents an immediate threat to the public health, safety, or welfare, the owner of the WES shall remedy the condition promptly.

12. Decommissioning.

- (a) A WES that is not in Operable Condition for a period exceeding 30 consecutive days shall be deemed abandoned. The owner of an abandoned WES and the owner of the property on which the WES is located shall cause the removal of all WES structures and facilities within 30 days after receipt of a notice of abandonment from the Village.
- (b) Any abandoned WES that is not removed within 30 days after receipt of a notice of abandonment shall be deemed a public nuisance, which nuisance the Village shall have the right, but not the obligation, to summarily abate by removing such WES at the joint and several expense of the owners of the WES and of the property on which the WES is located. In the case of such removal, the Village shall have the right, but not the obligation, to file a lien for reimbursement of any and all expenses incurred by the Village in connection with the removal, including, without limitation, attorney fees and accrued interest.
- (c) Upon removal of the WES, the subject property shall be restored to its original pre-WES-construction condition.

13. Architectural Review. The design, materials, and location of all proposed WES facilities shall be subject to Architectural Review pursuant to Section 11-606 of this Code.

D. Building-Mounted Wind Energy Systems (BWES).

1. Permitted Locations. Building-Mounted Wind Energy Systems are allowed as a permitted use in any zoning district, but only upon issuance of a BWES permit in accordance with the following:
  - (a) The owner of the property on which the BWES is proposed to be installed shall submit an application for a BWES permit pursuant to Paragraph 11-301E17 of this Code.
  - (b) Upon receipt of a complete application pursuant to Paragraph 11-301E17 of this Code, and upon approval of the proposed BWES by the Architectural Review Commission pursuant to Section 11-606 of this Code, and upon a determination by the Village Planner that the application and the proposed BWES complies with the requirements set forth in this Subsection 9-111D, the Village shall: (i) issue the BWES permit; and (ii) record the maintenance covenant submitted pursuant to Subparagraph 11-301E17(a)(v) of this Code with the Recorder of Deeds of Lake County, Illinois.
2. Installation. BWES devices may be structurally attached either on the roof or on the side of a building, if in accordance with the Village Building Code. There shall be no maximum number of BWES devices that may be installed on any property, provided that each such device complies with all applicable provisions of this Code.
3. Height. No portion of any BWES facility shall extend more than 15 feet above the highest point of the building on which it is mounted, nor more than 35 feet above grade if located in any Residential District.
4. Diameter. Unless authorized pursuant to a special use permit, the maximum diameter of a BWES shall be as follows:
  - (a) For a BWES that is mounted on a residential building, or on a property abutting a Nonparticipating Property that is located within a Residential District or used for residential purposes, the diameter of the BWES shall not exceed the lesser of 10 feet, or 20 percent of the width of the front elevation of the building on which the BWES is mounted.
  - (b) For all other BWES, the diameter shall not exceed the lesser of 10 feet, or 50 percent of the width of the front elevation of the building on which the BWES is mounted.

5. Color and Sun Glint. BWES facilities shall be finished in a neutral color. The finish shall be flat or matte, so as to reduce incidence of sun glint. The required coloration and finish shall be maintained throughout the life of the BWES.
6. Signage. No BWES shall have any advertising material, writing, picture, or signage, other than warning information or manufacturer identification.

E. Small Wind Energy Systems (SWES).

1. Permitted Locations. One SWES is allowed as a permitted use on any property, but only upon issuance of an SWES permit in accordance with the following:
  - (a) The owner of the property on which the SWES is proposed to be installed shall submit an application for an SWES permit pursuant to Paragraph 11-301E17 of this Code.
  - (b) Upon receipt of a complete application pursuant to Paragraph 11-301E17 of this Code, and upon approval of the proposed BWES by the Architectural Review Commission pursuant to Section 11-606 of this Code, and upon a determination by the Village Planner that the application and the proposed SWES complies with the requirements set forth in this Subsection 9-111E, the Village shall: (i) issue the SWES permit; and (ii) record the maintenance covenant submitted pursuant to Subparagraph 11-301E17(a)(v) of this Code with the Recorder of Deeds of Lake County, Illinois.
  - (c) Any additional SWES shall be allowed on a property only upon issuance of a special use permit therefor.
2. Use and Energy Production Restrictions. The primary purpose of the SWES shall be the production of energy for local distribution and consumption on the property on which the SWES is located. SWES shall not be constructed for the sole purpose of energy production for wholesale or retail sale purposes; provided, however, that excess energy produced by an SWES may be sold to a local electric utility company.

3. Bulk Restrictions.

(a) Setbacks. All portions of all SWES (including, without limitation, the blades of any turbines) shall comply with the generally applicable setback restrictions for the Zoning District in which the SWES is located and with the following setback restrictions, to be measured from the base of the SWES tower:

- (i) SWES facilities may not be constructed within or over any utility, water, sewer, or other type of recorded easement.
- (ii) SWES facilities may not be constructed within 50 feet of any body of water or wetlands, nor within 100 feet of any High Quality Aquatic Resources.
- (iii) SWES facilities shall be set back from all property lines, third party transmission lines, and communication towers a minimum distance equal to 10 percent of the height of the SWES.
- (iv) Guy wires and anchoring systems shall not be located closer than 30 feet from any property line or public right-of-way.

(b) Height.

(i) Residential Districts. Except as authorized pursuant to a special use permit, no portion of any SWES located in a Residential District shall exceed the following:

<u>Residential District</u>	<u>Maximum Height</u>
A Residential District	40 feet
B Residential District	35 feet

(ii) All Other Districts. No portion of any SWES constructed in any zoning district other than a Residential District shall exceed 175 feet in height; provided, however, that no portion of any SWES shall exceed 100 feet in height if located within 500 feet of a Nonparticipating Property located within a Residential District or used for residential purposes.

- (iii) Blade Tip Height. The blade tip, at its lowest point, shall not be located at a height lower than 15 feet above the ground.
- 4. Diameter. Unless authorized pursuant to a special use permit, the diameter of a SWES shall not exceed 10 feet.
- 5. Color and Sun Glint. Except as approved in advance by the Village Planner, all SWES facilities shall be finished in either off-white, light gray, or another neutral color. The finish shall be flat or matte, so as to reduce incidence of sun glint. The required coloration and finish shall be maintained throughout the life of the SWES.
- 6. Signage.
  - (a) No SWES shall have any advertising material, writing, picture, or signage other than warning signage, turbine tower identification, or manufacturer or ownership information.
  - (b) Except for meteorological and weather devices, or bird flight diverters on guy wires, no flag, decorative sign, streamers, pennants, ribbons, spinners or waiving, fluttering or revolving devices shall be attached to any portion of the SWES.
  - (c) One or more warning signs, no less than eighteen square inches and no greater than two square feet in area, shall be posted at the base of an SWES tower. The sign shall include a notice of no trespassing, a warning of high voltage, and the emergency telephone number of the owner of the SWES.
  - (d) The sign area of any sign displaying the manufacturer's identification or ownership information shall be no larger than one square foot.
- 7. Climb Prevention. The base of the tower shall not be climbable for a vertical distance of 15 feet from the base, unless the tower is enclosed with a locked fence that is at least eight feet in height.
- 8. Lighting.
  - (a) SWES facilities shall comply with all applicable FAA lighting regulations and any other federal, state or Village lighting regulations.

- (b) SWES facilities shall not be artificially lighted except as expressly required by the FAA or as necessary for the safety of personnel performing maintenance of, or repairs to, the facilities. Any such artificial lighting shall be shielded so that no glare extends substantially beyond the property lines of the property on which the SWES is located.
- (c) Any security or emergency lighting shall be used only to the minimum extent necessary.
- (d) In order to reduce the impact on local wildlife, only red, dual red-and-white strobe, strobe-like, or flashing lights shall be used for SWES facilities.

9. Environmental Impact.

- (a) SWES facilities, and the property on which such facilities are located, shall be maintained in accordance with the environmental plan submitted pursuant to Paragraph 11-301E17(c)(iv)(B) of this Code.
- (b) In order to reduce potential bird perching and nesting, all towers used for SWES facilities shall be designed as enclosed tubular structures with pointed tops, unless otherwise approved by the Village.

F. Reporting to Village. Not less than once every 12 months, the owner of each WES shall submit to the Village: (1) a sworn statement that the operation and maintenance of the WES has been performed in compliance with all applicable directions issued by the manufacturer thereof, along with supporting evidence as may be requested by the Village; and (2) electric bills for the property on which the WES is located for the preceding 12 months, to indicate the level of WES energy production and usage.

G. Indemnification. The owner of each WES, and the owner of the property on which the WES is located, shall jointly and severally defend, indemnify and hold harmless the Village and its officials from and against any and all claims, demands, losses, suits, causes of action, damages, injuries, costs, expenses and liabilities whatsoever including attorney's fees arising out of any permit, approval, inspection, or other act or omission of the Village, or any acts or omissions of the owners concerning the operation of the WES project without limitation, whether said liability is premised on contract or

Subsequent Development. No WES that is constructed and operated in compliance with this Section 9-111 shall be deemed to be in violation of this Section 9-111 solely as a result of any construction on, or rezoning of, any Nonparticipating Property that occurs after the first date of operation of the WES."

**SECTION THREE: Amendment of Subsection 5-11-8.** Subsection 8, entitled "Minimum Data Requirements," of Section 5-11-8, entitled "Applications," of Article XI, entitled "Zoning Administration and Enforcement," of the Zoning Code is hereby amended to add a new Paragraph 17, which Paragraph 17 shall read as follows:

"11-301

**APPLICATIONS**

\* \* \*

E. Minimum Data Requirements.

\* \* \*

17. Applications for Wind Energy Systems.

(a) Generally Applicable Requirements.

(i) Project Proposal.

(A) A project summary, including, without limitation, the manufacturer information and number of proposed turbines.

(B) Current photographs of the proposed location of the WES.

(C) A front elevation depiction of the subject property, showing the location and proposed height of the top of the turbine from top of the building.

(ii) Insurance. Proof of homeowner or business general liability insurance, as appropriate, with a minimum coverage level of \$1,000,000 per occurrence.

(iii) Electric Utility. Approval letter from the local electric utility company, if the system is to be connected to the energy grid.

- (iv) Manufacturer's Directions. A copy of the directions issued by the manufacturer of the proposed WES for the proper installation, operation, and maintenance of the WES.
- (v) Certification of Design Compliance. A certification of design compliance for the proposed WES with respect to the applicable noise, structural, and safety regulations set forth in Section 9-111 of this Code, which certification must have been obtained from Underwriters Laboratories (UL), National Renewable Energy Laboratories (NREL), Det Norske Veritas (DNV), Germanischer Lloyd Wind Energie (GL), or an equivalent third party.
- (vi) Maintenance Covenant. An executed maintenance covenant, on a form provided by the Village, providing that the owner and all subsequent owners of the subject property will maintain the WES in accordance and compliance with Section 9-111 of this Code and with the maintenance directions issued by the manufacturer of the WES.
- (vii) Contact Information. The name of a local contact with authority to operate or repair the proposed WES as needed and at any time, and the telephone number at which such contact may be reached on a 24-hour basis. At all times during which the WES is in Operable Condition, the applicant shall have the duty to notify the Village of any changes to the information required pursuant to this Subparagraph (vii).

(b) Additional BWES Requirements.

- (i) Engineering Plans. Engineering plans, which must include, without limitation, the manufacturer's engineering specifications of the turbine, nameplate wattage capacity, dimensions of the turbine unit, mounting mechanisms, expected load and expected sound level production.

(ii) Site Plan. A site plan, drawn to scale, signed and sealed by a Professional Engineer licensed in the State of Illinois, and including, without limitation, the following:

(A) The location of any overhead or underground power lines and utility easements; and

(B) The locations and the expected duration of shadow flicker caused by the BWES facility.

(c) Additional SWES Requirements.

(i) Engineering Plans. Engineering plans, which must include, without limitation, the manufacturer's engineering specifications of the tower, turbine and foundation, detailed drawing of electrical components and installation details, and expected sound level production (see Sound Level standards below). For turbines with a nameplate wattage capacity exceeding 20 kilowatts, the plans must be sealed by a Structural Engineer.

(ii) Site Plan. A site plan, drawn to scale, signed and sealed by a Professional Engineer licensed in the State of Illinois, and including, without limitation, the following:

(A) The existing and proposed contours, at a minimum of two foot intervals;

(B) The location, setbacks, exterior dimensions and square footage of all structures on the subject property and all nonparticipating properties located within 100 feet of the subject property if the proposed WES will be of a height not greater than 100 feet, and within 500 feet of the subject property if the proposed WES will be of a height greater than 100 feet;

(C) The location and size of existing waterways, wetlands, one hundred-year floodplains, sanitary sewers, field drain tiles, storm sewer systems, aquifers, and water distribution systems;

- (D) The location of any overhead or underground power lines and utility easements; and
  - (E) The locations and the expected duration of shadow flicker caused by the SWES facility.
- (iii) Soil Studies. For all proposed turbines to be constructed at a height greater than 100 feet, or of a structural weight greater than 5,000 pounds, the applicant shall submit a soil analysis measured at the proposed location for the base of the proposed tower and a drawing stamped by a Structural Engineer, in order to demonstrate that the soils are able to support the structural weight of the proposed SWES. For purposes of this Subparagraph 11-301E17(c)(iii), structural weight shall include the tower, wind turbine generator, and any other components otherwise supported by the base foundation of the proposed SWES.
- (iv) Environmental Impact Studies and Plans.
- (A) For any proposed SWES in excess of 75 in height, the applicant shall request, and submit to the Village, evaluations regarding the impact of the proposed SWES on the local environment and local wildlife from the Illinois Department of Natural Resources, the United States Fish and Wildlife Service, and the Lake County Soil and Water Conservation District.
  - (B) Upon request of the Village, the applicant shall submit an environmental plan to mitigate or eliminate any adverse impact of the proposed SWES on the local environment and local wildlife, which plan shall be subject to the approval of the Village in consultation with the Illinois Department of Natural Resources and the United States Fish and Wildlife Service."

**SECTION FOUR: Amendment to Subsection 11-606C.** Subsection C, entitled "Architectural Board," of Section 11-4, entitled "Architectural Board," of Article XI, entitled "Zoning Administration and Enforcement," of the Zoning Code is hereby amended as follows:

**"11-5 ARCHITECTURAL BOARD REVIEW**

\* \* \*

- C. Architectural Board Review Required. Architectural Board Review shall be required in connection with the construction of any new building, exterior and outdoor lighting system, ~~or sign,~~ **or Wind Energy System,** or the alteration, enlargement, or remodeling of any existing building, exterior and outdoor lighting system, ~~or sign,~~ **or Wind Energy System** (except for interior alterations and remodeling) within the Village, unless such requirement shall have been waived by the Board of Trustees as provided in Subparagraph E1(b) below."

**SECTION FIVE: Amendment to Section 12-13.** Section 12-13, entitled "Definitions," of Article V, entitled "Applicability and Interpretation," of the Zoning Code is hereby amended to add the following three entries to Subsections 12-206B, 12-206S, and 12-206W, respectively:

"BUILDING-MOUNTED WIND ENERGY SYSTEMS (BWES). Wind Energy Systems that are structurally attached either onto the roof of or to the side of a building.

SMALL WIND ENERGY SYSTEMS (SWES). Free-standing, tower-mounted Wind Energy Systems with a system height measuring less than 175 feet from the ground.

WIND ENERGY SYSTEM (WES). A wind energy production, conversion and distribution system consisting of a wind turbine, tower or other structure on which the turbine is mounted, and associated electronic, electric, or other mechanical equipment; provided, however, that such WES shall be limited to Building-Mounted Wind Energy Systems and Small Wind Energy Systems."

**SECTION SIX: Effective Date of Amendments.** Notwithstanding any moratorium adopted by the Village with respect to alternative energy devices, the amendments to the Zoning Code set forth in Sections Two through Five of this Ordinance shall be in full force and effect upon the effective date of this Ordinance, as provided in Section Seven of this Ordinance.

**SECTION SEVEN: Effective Date of Ordinance.** This Ordinance shall be in full force and effect upon its passage, approval, and publication in pamphlet form in the manner provided by law.

PASSED this \_\_\_<sup>th</sup> day of \_\_\_\_\_, 2013.

AYES: ( )

NAYS: ( )

ABSENT: ( )

APPROVED this \_\_\_<sup>th</sup> day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
Village President

ATTEST:

\_\_\_\_\_  
Village Clerk



**VILLAGE OF LONG GROVE**

**ORDINANCE NO. 2013-O-\_\_**

**AN ORDINANCE AMENDING THE LONG GROVE ZONING CODE  
REGARDING SOLAR AND GEOTHERMAL ENERGY SYSTEMS**

Adopted by the  
President and Board of Trustees  
of  
the Village of Long Grove  
this \_\_<sup>th</sup> day of \_\_\_\_\_, 2013

Published in pamphlet form by direction  
and authority of the Village of Long Grove,  
Lake County, Illinois  
this \_\_<sup>th</sup> day of \_\_\_\_\_, 2013

**VILLAGE OF LONG GROVE**

**ORDINANCE NO. 2013-O-\_\_**

**AN ORDINANCE AMENDING THE LONG GROVE ZONING CODE  
REGARDING SOLAR AND GEOTHERMAL ENERGY SYSTEMS**

**WHEREAS**, the Long Grove Zoning Code ("*Zoning Code*") regulates the development and use of land within the Village of Long Grove; and

**WHEREAS**, the Village President and Board of Trustees desire to encourage the responsible development and use of alternative sources of energy within the Village in conformance and harmony with the existing land development and use patterns of the Village; and

**WHEREAS**, in order to allow for the development and use of alternative energy sources in the Village while preserving the public health, safety, and welfare of the residents of the Village, the Village desires to amend the Zoning Code to adopt regulations governing the location, installation, operation, maintenance, and decommissioning of solar and geothermal energy systems in the Village (collectively, the "*Proposed Amendments*"); and

**WHEREAS**, pursuant to notice duly published in the *Daily Herald*, the Long Grove Plan Commission/Zoning Board of Appeals ("*PCZBA*") conducted a public hearing on \_\_\_\_\_, 2013, concerning the Proposed Amendments; and

**WHEREAS**, at the conclusion of the public hearing, the PCZBA made findings and recommended that the Board of Trustees adopt the Proposed Amendments, as set forth in this Ordinance; and

**WHEREAS**, having considered the findings and recommendations of the PCZBA, the President and Board of Trustees have found and determined that the adoption of the Proposed Amendments, as set forth in this Ordinance, is in the best interests of the Village and its residents.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND THE BOARD OF TRUSTEES OF THE VILLAGE OF LONG GROVE, LAKE COUNTY, ILLINOIS, as follows:

**SECTION ONE:**    **Recitals.** The foregoing recitals are incorporated into and made part of this Ordinance by this reference.

**SECTION TWO:**    **Amendment of Title IV.** Article IX, entitled "District Regulations of General Applicability," of the Zoning Code is hereby amended to add a new Section 9-112, which Section 9-112 shall read as follows:

**"9-112 SOLAR AND GEOTHERMAL ENERGY SYSTEMS"**

- A.    **Purpose.** The purpose of this Section 9-112 is to:
1.    Establish reasonable and uniform regulations for the location, installation, operation and maintenance of Solar and Geothermal Energy Systems,
  2.    Assure that any development and production of solar and geothermal energy systems is safe and minimizes any potentially adverse effects on the community,
  3.    Promote the supply of sustainable and renewable energy resources, in support of national, state and local goals; and
  4.    Facilitate energy cost savings and economic opportunities for residents and businesses situated within the Village.
- B.    **Solar Energy System Regulations.** All Solar Energy Systems shall comply with the regulations set forth in this Subsection 9-112B.
1.    **Compliance with Laws.** All Solar Energy Systems shall comply with all applicable Village, state, and federal laws and regulations, including, without limitation, the provisions of this Section 9-112B, this Code, and all Village building ordinances and regulations.
  2.    **Compliance with Permits.** All Solar Energy Systems shall comply with all applicable Solar Energy Systems permits issued pursuant to this Section 9-112B, including, without limitation, all conditions imposed by the Village as a condition of issuance of the permits.

3. Use and Energy Production Restrictions. The sole purpose of the Solar Energy System shall be the production of energy for local distribution and consumption on the property on which the Solar Energy System is located; provided, however, that excess energy produced by a Solar Energy System may be sold to a local electric utility company.
4. Interference with Utilities, Roads, and Neighboring Properties. No Solar Energy System shall be operated in a manner so as to interfere with any public right-of-way or any utility system in the Village, or so as to interfere with the reasonable use and enjoyment of any other property in the Village.
5. Engineering Requirements. Solar Energy Systems shall conform to all applicable industry standards, including, without limitation, the standards developed by the American National Standards Institute, as determined by the Village Planner.
6. Building-Mounted Solar Energy Systems.
  - (a) Solar Energy System Permit Required. Building-mounted Solar Energy Systems are allowed as a permitted use in any zoning district, but only upon issuance of a Solar Energy System permit in accordance with the following:
    - (i) The owner of the property on which the Solar Energy System is proposed to be installed shall submit an application for a Solar Energy System permit pursuant to Paragraph 11-301E18 of this Code.
    - (ii) Upon receipt of a complete application pursuant to Paragraph 11-301E18 of this Code, and upon a determination by the Village Planner that the application and the proposed Building-Mounted Solar Energy System comply with the requirements set forth in this Subsection 9-112B, the Village shall issue the Solar Energy System permit.
  - (b) Location.
    - (i) Solar Energy Systems may be mounted on the roof of a permitted principal or accessory structure. Solar Energy Systems shall not be mounted upon any other portion of any principal or accessory structure.

(ii) Solar Energy Systems must either be: (1) an integral part of the structure, rather than a separate mechanical device, replacing or substituting for an architectural or structural part of the building, such as a photovoltaic or hot water system that are contained within roofing materials, windows, skylights, shading devices and similar architectural components; or (2) mounted flush with, and parallel to, a finished surface, at no more than six inches in height above that surface.

(c) Horizontal Projection. Solar Energy Systems shall not extend beyond the exterior perimeter of the structure on which the System is mounted.

(d) Setbacks. All portions of building-mounted Solar Energy Systems shall comply with the generally applicable setback restrictions for the Zoning District in which the Solar Energy System is located.

(e) Height. The height of any building-mounted Solar Energy System shall not exceed the lesser of: (i) the height of the peak of that portion of the roof of the structure on which the System is mounted; and (ii) the generally applicable height restrictions for the Zoning District in which the Solar Energy System is located. For purposes of this Subparagraph 9-112B6(e), "height" shall be measured vertically from the lowest edge of the panel to the highest edge of the Solar Energy System.

(f) Maximum Roof Coverage. No Solar Energy System shall occupy more than 80% of the cumulative area of the face of the structure on which the System is mounted, unless the System is incorporated into, and is an integral part of, the structural elements of the face on which it is mounted.

7. Ground-Mounted Solar Energy Systems.

(a) Special Use Permit Required.

(i) Except as provided in Subparagraph 9-112B7(a)(ii) of this Code, Ground-Mounted Solar Energy Systems are allowed only upon issuance of a special use permit therefor. In addition to the application required pursuant to Section 11-17 of this Code for special use permits, the owner of the property on which the Ground-Mounted Solar Energy System is

proposed to be installed shall submit an application for a Solar Energy System permit pursuant to Paragraph 11-17 of this Code.

- (ii) No special use permit shall be required for the installation of a portable Solar Energy Systems for a swimming pool pursuant to Paragraph 9-112B8 of this Code.

(b) Location.

- (i) No ground-mounted Solar Energy System constructed in a Residential District shall be located within any public or private right-of-way for street purposes.
- (ii) No ground-mounted Solar Energy System may be constructed within any off-street parking or loading space required pursuant to this Code.

(c) Quantity and Size of Solar Panels. The quantity and size of solar panels installed as part of a ground-mounted Solar Energy System shall not exceed the specifications set forth in the special use permit issued therefor.

(d) Installation Angle. All solar panels of a ground-mounted Solar Energy System shall be installed at the angle specified in the special use permit issued therefor.

(e) Setbacks. In all zoning districts, all portions of ground-mounted Solar Energy Systems shall comply with the generally applicable setback restrictions for the Zoning District in which the Solar Energy System is located, as measured from the property line to the closest edge of the system. Solar Energy Systems (and parts thereof) shall not be deemed a permitted obstruction in any required yard.

(f) Height. The height of a ground-mounted Solar Energy System shall not exceed the specifications set forth in the special use permit issued therefor.

(g) Lot Coverage. The total solar panel surface area of each ground-mounted solar energy stem shall be included in the lot coverage calculations for the property on which the system is located.

- (h) Screening and Bufferyards. Ground-mounted Solar Energy Systems shall be screened in accordance with the specification set forth in the special use permit issued therefor.
  - (i) Rotation. Ground-mounted Solar Energy System panels may not rotate except as may be approved pursuant to the special use permit issued therefor.
8. Portable Solar Energy Systems for Swimming Pools. Portable Solar Energy Systems may only be constructed and used within the Village in accordance with the following additional provisions:
- (a) No portable Solar Energy System may be constructed or used prior to April 1 or after October 31 of any calendar year.
  - (b) No portable Solar Energy System may be used for any purpose other than the provision of heat for an outdoor swimming pool located within a Residential District.
  - (c) Portable Solar Energy Systems shall be constructed and used in accordance with the applicable provisions of Paragraph 9-112B7 of this Code governing ground-mounted Solar Energy Systems.

9. Decommissioning.

- (a) A Solar Energy System that is not capable of operating at full capacity for a period exceeding 30 consecutive days shall be deemed abandoned. The owner of an abandoned Solar Energy System and the owner of the property on which the Solar Energy System is located shall cause the removal of all Solar Energy System structures and facilities within 30 days after receipt of a notice of abandonment from the Village.

- (b) Any abandoned Solar Energy System that is not removed within 30 days after receipt of a notice of abandonment shall be deemed a public nuisance, which nuisance the Village shall have the right, but not the obligation, to summarily abate by removing such System at the joint and several expense of the owners of the System and of the property on which the System is located. In the case of such removal, the Village shall have the right, but not the obligation, to file a lien for reimbursement of any and all expenses incurred by the Village in connection with the removal, including, without limitation, attorney fees and accrued interest.
- (c) Upon removal of the Solar Energy System, the owner of record of the subject property shall restore that portion of the subject property on which the System was installed in accordance with the standards required by the Village's then-current applicable codes.

C. Geothermal Energy System Regulations. All Geothermal Energy Systems shall comply with the regulations set forth in this Subsection 9-112C.

- 1. Compliance with Laws. All Geothermal Energy Systems shall comply with all applicable Village, county (including, without limitation, applicable regulations of the Lake County Health Department), state, and federal laws and regulations, including, without limitation, the provisions of this Section 9-112C, this Code, and all Village building ordinances and regulations.
- 2. Compliance with Permits. All Geothermal Energy Systems shall comply with all applicable Geothermal Energy Systems permits issued pursuant to this Section 9-112C, including, without limitation, all conditions imposed by the Village as a condition of issuance of the permits.
- 3. Permitted Locations. Geothermal Energy Systems are allowed as a permitted use in any zoning district, but only upon issuance of a Geothermal Energy System permit in accordance with the following:
  - (a) The owner of the property on which the Geothermal Energy System is proposed to be installed shall submit an application for a Geothermal Energy System permit pursuant to Paragraph 9-112C of this Code.

(b) Upon receipt of a complete application pursuant to Paragraph 9-112 of this Code, and upon a determination by the Village Planner that the application and the proposed Geothermal Energy System complies with the requirements set forth in this Subsection 9-112C, the Village shall issue the Geothermal Energy System permit.

4. Engineering Requirements. Geothermal Energy Systems shall conform to all applicable industry standards, including, without limitation, the standards developed by the American National Standards Institute, as determined by the Village Planner.

5. Setbacks. All components of a Geothermal Energy System that are located above ground shall comply with the generally applicable setback restrictions for the Zoning District in which the system is located.

6. Installation in Rights-of-Way Prohibited. No portion of a geothermal energy system shall be installed in any right-of-way or in any easement dedicated for roadway purposes.

D. Indemnification. The owner of each Solar or Geothermal Energy System, and the owner of the property on which the Solar or Geothermal Energy System is located, shall jointly and severally defend, indemnify and hold harmless the Village and its officials from and against any and all claims, demands, losses, suits, causes of action, damages, injuries, costs, expenses and liabilities whatsoever including attorney's fees arising out of any permit, approval, inspection, or other act or omission of the Village, or any acts or omissions of the owners concerning the operation of the Solar or Geothermal Energy System, including, without limitation, whether said liability is premised on contract or on tort."

**SECTION THREE: Amendment of Subsection 5-11-8.** Subsection 8, entitled "Minimum Data Requirements," of Section 5-11-8, entitled "Applications," of Article VI, entitled "Zoning Regulations," of the Zoning Code is hereby amended to add new Paragraphs 18 and 19, which Paragraphs 18 and 19 shall read as follows:

"5-11-8

**APPLICATIONS**

\* \* \*

E. Minimum Data Requirements.

\* \* \*

18. Applications for Solar Energy Systems.

(a) Generally Applicable Requirements.

(i) The name, address, and telephone number of the person, firm, or corporation that will construct or install the proposed Solar Energy System.

(ii) Elevation drawings and/or photographs, and a site plan, depicting the location, size, and design details of all existing structures on the subject property and of the proposed Solar Energy System, which materials shall set forth all applicable zoning compliance data.

(iii) The manufacturer's specifications of the solar collectors and other devices of the proposed system, including, without limitation, wattage capacity, the dimensions of the collectors, the mounting mechanisms, the foundation details, and the structural requirements for the System.

(iv) Plans and specifications showing the method of construction of the proposed system, including details regarding the support of the system and its attachment to any structure.

(v) A copy of stress sheets and calculations prepared by a licensed professional engineer showing that the proposed system is designed for the deadload or windload, in the amount required by the manufacturer and all applicable law.

- (vi) A line drawing of the electrical components, as supplied by the manufacturer, in sufficient detail to allow for a determination that the manner of installation conforms to this Code and other applicable law.
  - (vii) A certification of design compliance for the proposed Solar Energy System with respect to the applicable noise, structural, and safety regulations set forth in Section 9-111 of this Code, which certification must have been obtained from Underwriters Laboratories (UL) or an equivalent independent testing agency approved by the Building Commission.
  - (viii) A signed indemnification agreement in accordance with Subsection 9-112D of this Code.
- (b) Ground-Mounted Systems - Site Plan. In addition to the requirements set forth in Subparagraph 11-301E18(a) of this Code, for all ground-mounted Solar Energy Systems, the applicant shall submit a site plan, drawn to scale, signed and sealed by a Professional Engineer licensed in the State of Illinois, and including, without limitation, the following:
- (i) The existing and proposed contours, at a minimum of two foot intervals;
  - (ii) The location, setbacks, exterior dimensions and square footage of all structures on the subject property and of all structures proposed as part of the ground-mounted solar energy system, as well as all applicable zoning compliance data; and
  - (iii) The location of any overhead or underground power lines and utility easements.

19. Applications for Geothermal Energy Systems.

- (a) The name, address, and telephone number of the person, firm, or corporation that will construct or install the proposed Geothermal Energy System.
- (b) A project summary and a site plan, which shall include, without limitation, information regarding the manufacturer of the system and the system specifications.

- (c) The location and size of existing waterways, wetlands, one hundred-year floodplains, sanitary sewers, field drain tiles, storm sewer systems, aquifers, and water distribution systems.
- (d) The location of any underground power lines and utility easements.
- (e) A signed indemnification agreement in accordance with Subsection 9-112D of this Code.

**SECTION FOUR: Amendment to Section 12-13.** Section 12-13, entitled "Definitions," of Article V, entitled "Zoning Regulations," of the Zoning Code is hereby amended to add the following four entries to Subsections 12-13:

**GEOHERMAL ENERGY SYSTEM.** A system or mechanism or series of mechanisms designed to provide heating or cooling or to produce electrical or mechanical power, or any combination of these, by a method that extracts or converts the energy naturally occurring beneath the earth's surface in rock, structures, water, or steam. Geothermal Energy Systems include, without limitation: vertical closed loop, horizontal closed loop, and body of water closed loop systems.

**PHOTOVOLTAIC CELL.** A semiconductor device that converts solar energy into electricity.

**SOLAR ENERGY SYSTEM.** A system for which the primary purpose is to convert solar energy into thermal, mechanical or electrical energy for storage and use.

**SOLAR PANEL.** A group of photovoltaic cells that are assembled on a panel used as part of a Solar Energy System.

**SECTION FIVE: Effective Date of Amendments.** Notwithstanding any moratorium adopted by the Village with respect to alternative energy devices, the amendments to the Zoning Code set forth in Sections Two through Four of this Ordinance shall be in full force and effect upon the effective date of this Ordinance, as provided in Section Six of this Ordinance.

**SECTION SIX: Effective Date of Ordinance.** This Ordinance shall be in full force and effect upon its passage, approval, and publication in pamphlet form in the manner provided by law.

PASSED this \_\_\_<sup>th</sup> day of \_\_\_\_\_, 2013.

AYES: ( )

NAYS: ( )

ABSENT: ( )

APPROVED this \_\_\_<sup>th</sup> day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
Village President

ATTEST:

\_\_\_\_\_  
Village Clerk