

**VILLAGE OF LONG GROVE  
ORDINANCE NO. 2020-O-\_\_**

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

Adopted by the  
President and Board of Trustees  
of  
the Village of Long Grove  
this \_\_\_\_ day of \_\_\_\_\_, 2020

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and authority of the Village of Long Grove,  
Lake County, Illinois  
this \_\_\_\_ day of \_\_\_\_\_, 2020

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**AN ORDINANCE AMENDING THE LONG GROVE ZONING CODE  
REGARDING ALTERNATIVE 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 ("**Village Board**") desire to encourage developments that incorporate the responsible use of alternative sources of energy within the Village so that such uses are 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 ("**AES**") in the Village while preserving the public health, safety, and welfare of the residents of the Village, the Village previously adopted Ordinance No. 2013-O-09, as amended from time to time, to establish regulations within the Zoning Code to govern the location, installation, operation, maintenance, and decommissioning of wind, solar, and geothermal energy systems in the Village (the "**AES Regulations**"); and

**WHEREAS**, pursuant to Ordinance No. 2019-O-05, the Village Board directed the Long Grove Plan Commission/Zoning Board of Appeals ("**PCZBA**") to review the AES Regulations and consider whether they should be amended to, *inter alia*: more appropriately address the potential impacts of AES on public health, safety, and welfare concerns of the Village; mitigate the risks associated with potentially-conflicting land uses; and better reflect the Village's land use policies and long-range planning goals (the "**Proposed Amendments**"); and

**WHEREAS**, pursuant to notice duly published in the *Daily Herald*, the PCZBA conducted a public hearing commencing on July 2, 2019 and thereafter continued from time to time and concluded on September 3, 2019 concerning the Proposed Amendments; and

**WHEREAS**, at the conclusion of the public hearing, the PCZBA made findings and recommendations to the Board of Trustees regarding the Proposed Amendments; and

**WHEREAS**, thereafter, the Board of Trustees considered the PCZBA’s recommendations and proposed amendments and on January 21, 2020 referred the Proposed Amendments back to the PCZBA for further review of certain matters; and

**WHEREAS**, pursuant to notice duly published in the *Daily Herald*, the PCZBA conducted a further public hearing commencing on March 3, 2020 and concluded on \_\_\_\_\_, 2020 concerning the Proposed Amendments; and

**WHEREAS**, at the conclusion of the public hearing, the PCZBA made further findings and recommendations to the Board of Trustees regarding the Proposed Amendments 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 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 Section 5-9-13 of the Village Code.** Section 5-9-13, entitled “Wind Energy Systems (WES),” of Chapter 9, entitled "District Regulations of General Applicability," of Title V, entitled "Zoning Regulations" of the Village Code is hereby amended in its entirety and shall hereafter be and read as follows:

**5-9-13 WIND ENERGY SYSTEMS (WES) PROHIBITED.**

**Wind energy systems, whether mounted on the ground or attached to a building or other structure, are a prohibited use in all zoning districts within the Village. For purposes of this section, “wind energy system” means a system or device containing one or more turbines (whether orientated on a horizontal axis or a vertical axis) that are turned by wind to produce electricity.**

**SECTION THREE: Amendment of Section 5-9-14 of the Village Code.** Section 5-9-14 of Chapter 9, entitled "District Regulations of General Applicability," of Title V, entitled "Zoning Regulations," of the Village Code is hereby amended in part and shall hereafter be and read as follows:

**5-9-14 SOLAR AND GEOTHERMAL ENERGY SYSTEMS (SES)**

**A. Purpose.** The purpose of this Section 5-9-14 is to:

- 1.** Establish reasonable and uniform regulations for the location, installation, operation and maintenance of Solar and Geothermal Energy Systems ("SES");
- 2.** Assure that any development and production of solar and geothermal energy systems SES 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.

**A-1 Definitions.** Notwithstanding Section 5-12-13 of this Code, when used in this Section 5-9-14, the following terms shall have the meanings herein ascribed to them. Any terms not listed in this Subsection A-1 shall have the meanings set forth in Section 5-12-13 of this Code.

**Height:** When used in reference to a SES, "height" shall mean the vertical distance measured from lowest ground surface (grade) adjacent to any structure, equipment, or facility comprising the SES or any part thereof to the highest point of such structure, equipment, or facility. When used in reference to any other structure, "height" shall have the meaning set forth in Section 5-12-13 of this Code.

**Nonparticipating Property:** Any property that is not under common ownership with the property on which the SES is proposed or installed.

**Operable Condition:** For any SES, the condition of being capable of operating at full capacity while meeting all conditions set forth in this Code.

**Size:** When used in reference to a SES, "size" shall mean the area (as measured in square footage or acreage) lying within the perimeter of the SES, as determined by the Village. The perimeter shall encompass the footprint of the entire SES (including all solar panels, all associated equipment and structures, as well as separations and gaps between and among panels and associated equipment and structures) and the ground, building, or other surface on which such SES is mounted.

**B.** Solar Energy System (SES) Regulations. ~~Solar Energy Systems-SES~~ are only allowed as authorized in this Section 5-9-14, and all ~~Solar Energy Systems-SES~~ shall comply with the regulations set forth in this Section 5-9-14.

1. Compliance with Laws. All ~~Solar Energy Systems-SES~~ shall comply with all applicable Village, state, and federal laws and regulations, including, without limitation, the provisions of this Section 5-9-14, this Code, and all applicable Village building ordinances and regulations.
2. Compliance with Permits. All ~~Solar Energy Systems-SES~~ shall obtain and comply with all applicable permits pursuant to this Section 5-9-14, including, without limitation building and electrical permits, all conditions imposed by the Village as a condition of issuance of these permits shall be complied with.
3. Use and Energy Production Restrictions. The sole purpose of the ~~Solar Energy System-SES~~ shall be the production of energy for ~~local distribution~~ and consumption on the property on which the ~~Solar Energy System-SES~~ is located; provided, however, that excess energy produced by a ~~Solar Energy System-SES~~ may be sold to a local electric utility company, subject to the limitations of this section. The capacity size of an SES shall be limited to 110% of the electricity usage on the property where the SES is located during the 12 months preceding installation of the SES, as determined by the Village Engineer. If such data is unavailable, or if the SES is being installed in connection with a change of use of the subject property, then the capacity size of the SES shall be limited to 110% of the property's expected annual electricity usage as determined by the Village Engineer.

**3.1** Reporting to Village. As a condition of approval of a special use permit for an SES, the Village Board may, in its discretion, require the owner of the SES to submit to the Village on an annual or other periodic basis: (1) a sworn statement that the operation and maintenance of the SES 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/or (2) electric bills and related documentation for the property on which the SES is located to indicate the level of SES energy production and usage. As a condition of such special use permit, the Village Board may also prescribe requirements for the owner to modify the SES if its capacity exceeds 110% of the property's energy usage in one or more reporting periods.

4. Interference with Utilities, Roads, and Neighboring Properties. No ~~Solar Energy System-SES~~ 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-SES~~ shall conform to all applicable industry standards, including, without limitation, the standards

developed by the American National Standards Institute. No SES may utilize concentrated solar thermal technology in any zoning district. “Concentrated solar thermal technology” shall include any solar technology that uses lenses or mirrors, with or without tracking systems, to focus or reflect sunlight from a larger area into a smaller area.

**5.1 Lighting.** Lighting of SES (including all appurtenant facilities or structures) shall be consistent with local, state, and federal laws, shall be used to the minimum extent necessary, and shall be limited to that required for safety or operational purposes. All lighting shall be shielded from abutting properties, shall be directed downward, and shall incorporate full cut-off fixtures.

**5.2 Maintenance.**

(a) SES facilities shall be kept in Operable Condition at all times, except for reasonable maintenance and repair outages.

(b) Should a SES become inoperable for any reason except reasonable maintenance and repair as noted above, or should any part of the SES become damaged, or should a SES violate a permit condition, the owner of the SES shall cease operations immediately and remedy the condition within 90 days after receipt of a notice from the Village regarding the condition, or such longer time to which the SES owner and the Village may agree; provided, however, that if the condition presents an immediate threat to the public health, safety, or welfare, the owner of the SES shall remedy the condition within such time as may be required by the Village.

**6. Building-Mounted Solar Energy Systems-SES.**

(a) Solar Energy System Permit Required. Building-mounted ~~Solar Energy Systems-SES~~ are allowed as a permitted use in any zoning district, but only as an accessory use in accordance with Section 5-9-1 of the Village Code (and not as a principal use) on any property, and 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~~ **SES** is proposed to be installed shall submit an application for building permits, as applicable, pursuant to Title 4 of the Long Grove Village Code. Such application shall include the Minimum Data Requirements identified in section 5-11-8(E)15 of this Code.

(ii) Upon receipt of a complete application pursuant to Title 4 of this Code, and upon a determination by the Village that the application and the proposed Building-Mounted ~~Solar~~

**Commented [A1]:** The PCZBA wished to further discuss whether to add screening requirements for building-mounted SES located on principal and/or accessory structures.

~~Energy System-SES~~ comply with the requirements set forth in this and the other applicable codes the Village shall issue permits for the ~~Solar Energy System-SES~~.

- (b) Location.
- (i) ~~Solar Energy Systems-SES~~ may be mounted on the roof of a permitted principal or accessory structure. ~~Solar Energy Systems-SES~~ shall not be mounted upon any other portion of any principal or accessory structure.
  - (ii) ~~Solar Energy Systems-SES~~ 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.
  - (iii) Applications and plans for a Building Mounted ~~Solar Energy System-SES~~ within the B-1 Historic District shall also be subject to review and approval by the Architectural Commission.
- (c) Horizontal Projection. ~~Solar Energy Systems-SES~~ shall not extend beyond the exterior perimeter of the structure on which the ~~System-SES~~ is mounted.
- (d) Setbacks. All portions of building-mounted ~~Solar Energy Systems-SES~~ shall comply with the generally applicable setback restrictions for the Zoning District or building setbacks lines as established in a Planned Unit Development (PUD) in which the ~~Solar Energy System-SES~~ is located.
- (e) Height. The height of any building-mounted ~~Solar Energy System-SES~~ 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-SES~~ is mounted; and (ii) the generally applicable height restrictions for the Zoning District in which the ~~Solar Energy System-SES~~ is located. For purposes of this section, "height" shall be measured vertically from the lowest edge of the panel to the highest edge of the ~~Solar Energy System-SES~~.
- (f) Maximum Roof Coverage. No ~~Solar Energy System-SES~~ shall occupy more than 80% of the cumulative area of the face of the structure on which the ~~System-SES~~ is mounted, unless the ~~System-SES~~ is incorporated into, and is an integral part of, the structural elements of the face on which it is mounted.

- (g) **Color. The frame or skirt of building-mounted SES shall be finished in a neutral color that blends with the building surface on which the SES is mounted, and the panels shall be black or another neutral color that blends with the framing or skirt and mounting surface. A color and finish that is reasonably close in appearance to that of the mounting surface, to the extent feasible without impairing the functionality of the SES, shall be deemed to blend with the mounting surface as required by this paragraph.**

7. ~~Ground-Mounted Solar Energy Systems-SES.~~ Ground mounted Solar Energy Systems **SES** shall be considered special uses in all zoning districts, **and shall be allowed only as an accessory use in accordance with Section 5-9-1 of the Village Code, and not as a principal use, on any property.** Plans for ground mounted ~~Solar Energy Systems-SES~~ (excepting portable energy systems **SES** for swimming pools listed in Section 5-9-14(B)8 below) shall be subject to the issuance of a special use permit as provided for in Section 5-11-17 of this title ~~and as~~ well as review and approval by the Architectural Commission. In addition to all other requirements of the Special Use Permit application, all applications for ground mounted ~~Solar Energy Systems-SES~~ shall include the Minimum Data Requirements identified in section 5-11-8(E)15 of this Code. In addition, plans for ground mounted ~~solar energy system-SES~~ shall comply with the minimum standards as follows:

- (a) **Location.**
  - (i) No ground-mounted ~~Solar Energy System-SES~~ 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-SES~~ may be constructed within any off-street parking or loading space required pursuant to this Code.
  - (iv) Ground mounted ~~Solar Energy Systems-SES~~ shall be located on the same lot or parcel as the principal structure.
  - (v) **Unless otherwise expressly approved pursuant to special use permit, ground-mounted SES shall be located and within the rear yard of that the lot or parcel on which the principal structure is located.**
- (b) **Installation Angle; Rotation.** All solar panels of a ground-mounted ~~Solar Energy System-SES~~ shall be installed not greater than, **and may be rotated not to exceed,** the maximum angle specified by the manufacturer.
- (c) **Setbacks.** In all zoning districts, all portions of ground-mounted ~~Solar Energy Systems-SES~~ shall comply with the generally



applicable setback restrictions for the Zoning District or building setbacks lines as established in a PUD in which the ~~Solar Energy System~~ **SES** is located, as measured from the property line to the closest edge of the system; **provided that the required setbacks may be increased by such additional distance as is necessary to provide proper screening as required by this section.** ~~Solar Energy Systems~~ **SES** (and parts thereof) shall not be deemed a permitted obstruction in any required yard. A ~~Solar Energy System~~ **SES** that is accessory to a public school use shall not be subject to the setback requirements for public assemblies under Section 5-9-12 of this Title.

- (d) **Height.** The height of a ground-mounted ~~Solar Energy System~~ **SES** shall not exceed the height limitation for accessory structures.
- (e) **Lot Coverage and Size.** The total solar panel surface area of each ground-mounted ~~solar energy system~~ **SES** shall be included in the ~~lot~~ **impervious surface** coverage calculations for the property on which the system is located. **In no event may an SES be greater than [ ] acres ( square feet) in size.**
- (f) **Screening and Bufferyards.** Ground-mounted ~~Solar Energy Systems~~ **SES** shall be properly screened from adjacent lots. For the purpose of this subsection (f), proper screening shall be deemed to consist of permanent vegetative screening large enough and dense enough to substantially screen the energy system from view from adjacent lots in a manner that is consistent with the character of the neighborhood and existing uses on the adjacent lots. **All landscaping and screening shall be installed and maintained in accordance with this Section and plans approved as part of the special use permit for the SES. All required landscaping shall be continually maintained by the owner or other person responsible for maintenance of the premises. Any ground-mounted SES that is 0.5 acres (21,780 square feet) or greater in size shall be subject to the following additional standards:**
  - 1. Landscaping and screening shall be located as near as practicable to the perimeter of the property on which the SES is located unless otherwise approved by the Village Board pursuant to special use permit. In considering modifications to the perimeter landscaping requirement, the Village Board may consider the size, topography, and layout of the SES, the subject property, and Nonparticipating Properties.**
  - 2. Landscaping shall be of a sufficient height and density to provide year-round screening in accordance with this paragraph (f) subject to a reasonable grow-in period**

**Commented [A2]:** The PCZBA wished to research and discuss this further.

after the initial planting as specified in the special use permit, but not to exceed 3 years.

3. The Village may require the screening plan to include construction and maintenance of earthen landscaped berms.
  4. The owner of the SES shall submit a maintenance plan, which shall be subject to Village Board approval as part of the special use permit, which shall, at a minimum, provide for: (i) continuous and permanent maintenance of all required landscaping consistent with the special use permit and good forestry practices; (ii) a periodic comprehensive review of the health and density of the landscaping in cooperation with the Village; and (iii) replacement of any dead, dying, damaged, or diseased landscaping within one growing season after identification as such.
  5. Delivery to the Village of a performance bond or letter of credit in an amount determined by the Village Forester to ensure the protection or replacement of all required landscaping for a period of at least two years after the SES begins operating.
- (g) Rotation. Ground-mounted Solar Energy System panels may rotate not to exceed the maximum angle as specified by the manufacturer. Pollinator-Friendly and Native Plantings. In order to prevent erosion, manage stormwater run-off, and provide ecological benefits, ground-mounted SES that are 0.5 acres (21,780 square feet) or greater in size must: (i) be planted with low-profile native prairie species using a seed mix appropriate for the region and site-specific soil conditions; and (ii) provide native perennial vegetation and foraging habitat that is beneficial to game birds, song birds, and pollinators in accordance with the site management practices identified in the Pollinator Friendly Solar Site Act, 525 ILCS 55/1 et seq., all in accordance with a plan approved by the Village Forester. Ground-mounted SES that are less than 0.5 acres (21,780 square feet) in size are encouraged to incorporate pollinator-friendly and native plantings as described in this subsection.
- (h) Environmental Impact. SES that are 0.5 acres (21,780 square feet) or greater in size, and the property on which such systems are located, shall be maintained in accordance with the environmental plan submitted pursuant to Section 5-11-8(E)15(c) of the Village Code.

8. ~~Portable Solar Energy Systems~~ **SES for Swimming Pools.** Portable ~~Solar Energy Systems~~ **SES** for swimming pools may only be constructed and used within the Village in accordance with the following provisions:
- (a) No portable ~~Solar Energy System~~ **SES** may be constructed or used prior to April 1 or after October 31 of any calendar year.
  - (b) No portable ~~Solar Energy System~~ **SES** 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~~ **SES** shall be constructed and used in accordance with the applicable provisions of Chapter 9, Section 5-9-1 (D) (3) of this Code.
9. Decommissioning.
- (a) **A SES, or any material portion or component thereof, that is not in Operable Condition for a period exceeding 90 consecutive days shall be deemed abandoned unless the owner of the SES is diligently pursuing maintenance, modifications, or repairs to the SES during such time. The owner of an abandoned SES and the owner of the property on which the SES is located shall cause the removal of all abandoned SES structures and facilities within 30 days after receipt of a notice of abandonment from the Village, or such longer time as the Village may specify in the notice. Decommissioning shall include:**
    - a. **Physical removal of the SES, including all systems, structures, equipment, security barriers, and electrical wiring lines from the site;**
    - b. **Disposal of all solid and hazardous waste in accordance with local, state, and federal waste disposal regulations; provided, however, that energy system equipment and building materials shall be disposed of by recycling, rather than landfilling, to the maximum extent possible; and**
    - c. **Stabilizing or re-vegetation of the site as necessary to minimize erosion and restoration of the subject property in accordance with the standards required by the Village's then-current applicable codes.**

**Notwithstanding the foregoing, the Village may allow the owner to leave landscaping or to abandon-in-place designated below-grade structures, foundations, or wiring in order to minimize disruption to vegetation, natural habitats, or existing structures.**
  - (b) **Any abandoned SES that is not removed within 30 days after receipt of a notice of abandonment, or such other time as the Village and owner may agree, shall be deemed a public nuisance, which nuisance the**

Village shall have the right, but not the obligation, to summarily abate by removing such SES at the joint and several expense of the owners of the SES and of the property on which the SES is located. As a condition of permit approval for a SES, the applicant shall agree to allow the Village entry upon the subject property to remove an abandoned SES in accordance with this paragraph. 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) Decommissioning Plan. Prior to, and as a condition of, issuance of any permit for: (i) a SES that is accessory to a non-residential use; or (ii) a SES accessory to a residential use that is 0.5 acres (21,780 square feet) or greater in size, the owner shall prepare a decommissioning plan, which plan shall be subject to Village approval. Unless otherwise required by any special use permit for a SES, the plan shall: (iii) address all required components of the decommissioning process in accordance with this Section; (iv) show final site conditions after decommissioning is completed; and (v) include an engineer's opinion of probable cost for decommissioning in accordance with the plan. Unless otherwise approved by the Village Board, the owner shall post a bond or letter of credit in a form acceptable to the Village in the amount of 130% of the engineer's estimate. The decommission plan shall be reasonably detailed and specific based on the legal requirements, technology, and technical information available at the time the plan is prepared. In the event of material changes to such requirements or information during the life of the SES, the Village may request that the owner of the SES review and update the plan on file, and the owner shall promptly comply with such request.

~~(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. Fees; Costs. Any third-party expenses incurred by the Village in connection with the compliance reviews set forth in Section 5-9-14B3.1 shall be deemed an additional application fee, and the owner of the SES and of the property on which such system is located shall be responsible for such fee in accordance with Section 5-11-8D of this Code.**

**D. ~~Geothermal Energy System Regulations.~~ All Geothermal Energy Systems shall comply with the regulations set forth in this Section 5-9-14.**

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 Code, and all Village building ordinances and regulations.~~
2. ~~Compliance with Permits. All Geothermal Energy Systems shall obtain and comply with all applicable Geothermal Energy Systems permits 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 applicable building permits 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 building permits, as applicable, pursuant to Title 4 of the Long Grove Village Code. Such application shall include the Minimum Data Requirements identified in section 5-11-8(E)19 of this Code.~~
  - (b) ~~Upon receipt of a complete application pursuant to Title 4 of this Code, and upon review and determination by the Village that the application and the proposed Geothermal Energy System complies with the requirements set forth in this and the other applicable codes, the Village shall issue permits for the Geothermal Energy System.~~
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.~~
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 or building setbacks lines as established in a Planned Unit Development (PUD) 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.~~

~~D7. Indemnification. The owner of each Solar or Geothermal Energy System SES, and the owner of the property on which the Solar or Geothermal Energy System SES 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 SES, including, without limitation, whether said liability is premised on contract or on tort.~~

**SECTION FOUR: Addition of New Section 5-9-15 of the Village Code.** Chapter 9, entitled "District Regulations of General Applicability," of Title V, entitled "Zoning Regulations," of the Village Code is hereby amended to add a new Section 5-9-15, which shall hereafter be and read as follows:

**5-9-15 GEOTHERMAL ENERGY SYSTEMS (GES)**

**A. Purpose.** The purpose of this Section 5-9-15 is to:

- 1. Establish reasonable and uniform regulations for the location, installation, operation and maintenance of GES;**
- 2. Assure that any development and production of GES 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. Definitions.** Notwithstanding Section 5-12-13 of this Code, when used in this Section 5-9-15, the following terms shall have the meanings herein ascribed to them. Any terms not listed in this Subsection B shall have the meanings set forth in Section 5-12-13 of this Code.

**Height:** When used in reference to a GES, "height" shall mean the vertical distance measured from lowest ground surface (grade) adjacent to any structure, equipment, or facility comprising the GES or any part thereof to the highest point of such structure, equipment, or facility. When used in reference to any other structure, "height" shall have the meaning set forth in Section 5-12-13 of this Code.

**Nonparticipating Property:** Any property that is not under common ownership with the property on which the GES is proposed or installed.

**Operable Condition: For any GES, the condition of being capable of operating at full capacity while meeting all conditions set forth in this Code.**

**C. General Regulations. All GES shall comply with the regulations set forth in this Section 5-9-15.**

- 1. Compliance with Laws. All GES 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 Code, and all Village building ordinances and regulations.**
- 2. Compliance with Permits. All GES shall obtain and comply with all applicable GES permits including, without limitation, all conditions imposed by the Village as a condition of issuance of the permits.**
- 3. Permitted Locations. GES are allowed as a permitted use in any zoning district, but only as an accessory use (and not as a principal use) on any zoning lot, and only upon issuance of applicable building permits in accordance with the following:**
  - (a) The owner of the property on which the GES is proposed to be installed shall submit an application for building permits, as applicable, pursuant to Title 4 of the Long Grove Village Code. Such application shall include the Minimum Data Requirements identified in section 5-11-8(E)16 of this Code.**
  - (b) Upon receipt of a complete application pursuant to Title 4 of this Code, and upon review and determination by the Village that the application and the proposed GES complies with the requirements set forth in this and the other applicable codes, the Village shall issue permits for the GES.**
- 4. Engineering Requirements. GES shall conform to all applicable industry standards, including, without limitation, the standards developed by the American National Standards Institute.**
- 5. Setbacks; Height. Any components of a GES that are located above ground shall comply with: (i) the generally applicable height limitations for accessory structures for the Zoning District in which the system is located; and (ii) and the generally applicable setback restrictions for the Zoning District or building setbacks lines as established in a Planned Unit Development (PUD) in which the system is located.**
- 6. Installation in Rights-of-Way Prohibited. No portion of a GES shall be installed in any right-of-way or in any easement dedicated for roadway purposes.**
- 7. Lighting. Lighting of GES (including all appurtenant facilities or structures) shall be consistent with local, state, and federal laws, shall**

be used to the minimum extent necessary, and shall be limited to that required for safety or operational purposes. All lighting shall be shielded from abutting properties, shall be directed downward, and shall incorporate full cut-off fixtures.

**8. Maintenance.**

**(a) GES facilities shall be kept in Operable Condition at all times, except for reasonable maintenance and repair outages.**

**(b) Should a GES become inoperable for any reason except reasonable maintenance and repair as noted above, or should any part of the GES become damaged, or should a GES violate a permit condition, the owner of the GES shall cease operations immediately and remedy the condition within 90 days after receipt of a notice from the Village regarding the condition, or such longer time to which the GES owner and the Village may agree; provided, however, that if the condition presents an immediate threat to the public health, safety, or welfare, the owner of the GES shall remedy the condition within such time as may be required by the Village.**

**9. Use and Energy Production Restrictions. The sole purpose of the GES shall be the production of energy for consumption on the property on which the GES is located.**

**10. Reporting to Village. Not less than once every 12 months, the owner of each GES that is accessory to a non-residential use shall submit to the Village a sworn statement that the operation and maintenance of the GES 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.**

**D. Indemnification. The owner of each GES, and the owner of the property on which the GES 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 GES, including, without limitation, whether said liability is premised on contract or on tort.**

**E. Decommissioning.**

**1. A GES, or any material portion or component thereof, that is not in Operable Condition for a period exceeding 90 consecutive days shall be deemed abandoned unless the owner of the GES is diligently pursuing maintenance, modifications, or repairs to the GES during such time. The owner of an abandoned GES and the owner of the property on which the GES is located shall cause the removal of all abandoned GES structures and facilities within**



30 days after receipt of a notice of abandonment from the Village, or such longer time as the Village may specify in the notice. Decommissioning shall include:

- a. Physical removal of the GES, including all systems, structures, equipment, security barriers, and electrical wiring lines from the site;
- b. Disposal of all solid and hazardous waste in accordance with local, state, and federal waste disposal regulations; provided, however, that energy system equipment and building materials shall be disposed of by recycling, rather than landfilling, to the maximum extent possible; and
- c. Stabilizing or re-vegetation of the site as necessary to minimize erosion and restoration of the subject property in accordance with the standards required by the Village's then-current applicable codes.

Notwithstanding the foregoing, the Village may allow the owner to leave landscaping or to abandon-in-place designated below-grade structures, foundations, or wiring in order to minimize disruption to vegetation, natural habitats, or existing structures.

2. Any abandoned GES that is not removed within 30 days after receipt of a notice of abandonment, or such other time as the Village and owner may agree, 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 GES and of the property on which the GES is located. As a condition of permit approval for a GES, the applicant shall agree to allow the Village entry upon the subject property to remove an abandoned GES in accordance with this paragraph. 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.
3. Decommissioning Plan. Prior to, and as a condition of, issuance of any permit for a GES that is accessory to a non-residential use, the owner shall prepare a decommissioning plan, which plan shall be subject to Village approval. The plan shall: (iii) address all required components of the decommissioning process in accordance with this Section; (iv) show final site conditions after decommissioning is completed; and (v) include an engineer's opinion of probable cost for decommissioning in accordance with the plan. Unless otherwise approved by the Village Board, the owner shall post a bond or letter of credit in a form acceptable to the Village in the amount of 130% of the engineer's estimate. The decommission plan shall be reasonably detailed and specific based on the legal requirements, technology, and technical information available at the time the plan is prepared. In the event of material changes to such requirements or information during the life of the SES, the

**Village may request that the owner of the SES review and update the plan on file, and the owner shall promptly comply with such request.**

**F. Fees; Costs. Any third-party expenses incurred by the Village in connection with the compliance reviews set forth in Section 5-9-15.C.10 shall be deemed an additional application fee, and the owner of the GES and of the property on which such system is located shall be responsible for such fee in accordance with Section 5-11-8D of this Code.**

**SECTION FIVE: Amendment of Subsection 5-11-8(E)(15) of the Village Code.** Subsection E, entitled "Minimum Data Requirements," of Section 8, entitled "Applications," of Chapter 11, entitled "Zoning Administration and Enforcement," of Title 5, entitled "Zoning Regulations," of the Village Code is hereby amended in part and shall hereafter be and read as follows:

**5-11-8 APPLICATIONS**

\* \* \*

E. Minimum Data Requirements.

\* \* \*

15. Applications for Solar Energy Systems (SES).

(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~~ **SES**.
- (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~~ **SES**, 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~~ **SES and a copy of the directions issued by the manufacturer of the proposed SES for the proper installation, operation, and maintenance of the SES.**

- (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~~ **SES** with respect to the applicable noise, structural, and safety regulations set forth in the Village 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 5-9-14(D) of this Code.
  - (ix) **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 SES in accordance and compliance with Section 5-9-14 of this Code and with the maintenance directions issued by the manufacturer of the SES.**
  - (x) **Insurance. Proof of homeowner or business general liability insurance, as appropriate, with a minimum coverage level of \$1,000,000 per occurrence.**
  - (xi) **Electric Utility. Approval letter from the local electric utility company, if the system is to be connected to the energy grid.**
- (b) Ground-Mounted Systems - Site Plan. In addition to the requirements set forth in Section 5-11-8 “Applications” of this Code, for all ground-mounted ~~Solar Energy Systems~~ **SES**, 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 SES, as well as all applicable zoning compliance data; and
  - (iii) The location of any overhead or underground power lines and utility easements.
- (c) **Environmental Impact Studies and Plans.**
- (i) **For any proposed SES that is 0.5 acres (21,780 square feet) or greater in size, the applicant shall request, and submit to the Village, evaluations regarding the impact of the proposed SES 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.**
  - (ii) **Upon request of the Village, the applicant shall submit an environmental plan to mitigate or eliminate any adverse impact of the proposed SES 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.**

16. Applications for Geothermal Energy Systems (GES).

- (a) The name, address, and telephone number of the person, firm, or corporation that will construct or install the proposed Geothermal Energy System GES.
- (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 5-9-14 (D) of this Code.
- (f) **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 GES in accordance and**

compliance with Section 5-9-14 of this Code and with the maintenance directions issued by the manufacturer of the GES.

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

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

**SECTION SIX: Amendment to Section 5-12-13 of the Village Code.** Section 13, entitled "Definitions," of Chapter 12, entitled "Applicability and Interpretation," of Title V, entitled "Zoning Regulations," of the Village Code is hereby amended in part as follows:

**5-12-13 DEFINITIONS**

When used in this title, the following terms shall have the meanings herein ascribed to them:

\* \* \*

ACCESSORY STRUCTURE OR USE: See section 5-9-1(b) of this title.

\* \* \*

BUILDING, ACCESSORY: See "ACCESSORY STRUCTURE OR USE." A subordinate building or portion of a principal building, the use of which is incidental to that of the principal building and customary in connection with that use.

\* \* \*

BUILDING, PRINCIPAL: See "PRINCIPAL STRUCTURE OR BUILDING." A nonaccessory building in which the principal use of a lot on which it is located is conducted.

\* \* \*

PRINCIPAL STRUCTURE OR BUILDING: A structure or building on a zoning lot intended to be utilized for a principal use and to which any other structure on such lot must be accessory.

\* \* \*

PRINCIPAL USE: The use of a zoning lot, whether a permitted or specially permitted use, designated by the owner of such lot as the primary or main use of such lot and to which any other use on such lot must be accessory.

\* \* \*

USE: The purpose or activity for which the land, or building thereon, is designed, arranged or intended, or for which it is occupied or maintained.

\* \* \*

USE, ACCESSORY: ~~See "ACCESSORY STRUCTURE OR USE." A subordinate use such as a private garage, which is clearly and customarily incidental to the principal use of a building or premises and which is located on the same lot as the principal building or use, except for such accessory parking facilities as are specifically authorized to be located elsewhere.~~

\* \* \*

USE, PRINCIPAL: ~~See "PRINCIPAL USE." The main use of land or building as distinguished from a subordinate or accessory use.~~

\* \* \*

**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 this Ordinance shall be in full force and effect upon the effective date 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 \_\_\_\_ day of \_\_\_\_\_, 2020.

AYES: ( )

NAYS: ( )

ABSENT: ( )

APPROVED this \_\_\_\_ day of \_\_\_\_\_, 2020.

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

ATTEST:

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