

AMENDMENT NO. 1 TO
COUNTY ORDINANCE NO. 17-17

AMENDMENT TO
A BILL ENTITLED

AN ACT CONCERNING Amendments to Chapter 18:1 of the Code of Public Local Laws (the Queen Anne's County Zoning and Subdivision Regulations) Regarding Conditional Use Standards for Solar Arrays, Standards for Accessory Solar Arrays and Elimination of Solar Arrays in Open Space;

FOR THE PURPOSE OF amending pending County Ordinance No. 17-17;

BY AMENDING THE PROVISIONS OF COUNTY ORDINANCE NO. 17-17 REPEALING AND RE-ENACTING Sections 18:1-12, 18:1-95.S and 18:1-139.A of the Code of Public Local Laws of Queen Anne's County, Maryland and by ADOPTING §18:1-49.1 as an addition to the Public Local Laws of Queen Anne's County, Maryland.

BE IT ENACTED BY THE COUNTY COMMISSIONERS OF QUEEN ANNE'S COUNTY, MARYLAND that Section I, II and III of pending County Ordinance No. 17-17 be AMENDED and that a new Section IV be ADDED to read as follows:

SECTION I

BE IT ENACTED BY THE COUNTY COMMISSIONERS OF QUEEN ANNE'S COUNTY, MARYLAND, that Section 18:1-12 of Public Local Laws of Queen Anne's County be and is hereby REPEALED and RE-ENACTED to read as follows:

Part 3 Zoning Districts
Article IV Zoning Maps

§18:1-12 Permitted uses in open space

A. The following are permitted or conditional uses allowed in open space areas required by this Chapter 18:1. Any use not specifically listed below is not permitted in required open space areas. [Amended 6-12-2007 by Ord. No. 06-22; 8-19-2008 by Ord. No. 08-15; 12-13-2011 by Ord. No. 11-07; 8-13-2013 by Ord. No. 13-15]

	A Non- contiguous Open Space/TDR	B Multifamily/ Manufactured Home Community/ Master Planned Residential Development	C Single-Family Cluster Development
Allowable Uses			NC All Other
Solar arrays	C	N	-N——N

SECTION II

BE IT ENACTED BY THE COUNTY COMMISSIONERS OF QUEEN ANNE'S COUNTY, MARYLAND, that Section 18:1-95.S of Public Local Laws of Queen Anne's County be and is hereby REPEALED and RE-ENACTED to read as follows:

Chapter 18 Land Use and Development

...

S. Solar arrays.

(1) Purpose and intent. The purpose of this subsection is to establish guidelines for the siting of a utility scale solar array and accessory equipment, buildings or facilities that generate, maintain, operate, manage, store, distribute and transmit power, other than facilities designed for small scale solar array applications.

(a) The goals of this subsection are to:

[1] Protect existing residential areas and land uses from potential adverse impacts, while accommodating utility scale solar arrays in the County's solar array overlay map.

[2] Encourage the configuration of solar arrays so that adverse visual impacts are minimized through careful design, siting, and landscaping screening and buffering.

[3] Encourage the configuration of solar arrays so that the health, safety, and general welfare of the public are protected.

(2) All applications for zoning permits for solar arrays requiring conditional use approval shall, in addition to what is otherwise required for a conditional use permit, present a special application in accordance with § 18:1-143 to the Planning Commission during a public meeting. The Planning Commission shall forward its report and recommendations to the Board of Appeals within 60 days of the Planning Commission's review. The Board of Appeals shall not render its decision until the Planning Commission recommendations have been received and reviewed.

(3) Submission requirements for Board of Appeals conditional use approval.

(a) In addition to other conditional use requirements set forth in Chapter 18:1, Part 5, Article XVII, applications for utility scale solar arrays shall provide and **show** the following:

[1] Preliminary engineered construction drawings, including but not limited to grading and stormwater management.

[2] The proposed location of equipment and/or storage structures and shelters, landscaping, and site access including during and after construction.

[3] All existing conditions, structures, and site access.

[a] Existing conditions, including documentation of consultation with Maryland Historic Trust, shall show historic structures or features or other heritage and cultural resources. If a project uses federal or state monies, a Section 106 shall be filed. The utility scale solar array shall minimize adverse impacts to view sheds of designated historic sites and scenic corridors, and further, shall not be located in a scenic byway.

[4] A written statement that describes the project including the anticipated generating capacity, the proposed type, size, and cost of the solar panels, and the intended length of operation

[5] Information about the applicant and its renewable energy portfolio including whether the applicant intends to operate the solar array, identity of likely future owners, and a process by which the future owners and/or utility operators will be identified to the County.

[6] At minimum, a conceptual stormwater management plan in accordance with all County and State stormwater management regulations. Additional plan information shall be provided as may be further deemed necessary by the Department of Public Works for the protection, maintenance, and enhancement of public health, safety, and general welfare through controlling the impacts associated with stormwater runoff.

[7] Evidence that lighting shall be in accordance with §18:1-85.C, Exterior lighting standards, of this chapter.

[8] Signage shall be in accordance with Article XII.

[9] Interior site circulation and parking including where construction vehicles and materials will be stored while the site is under construction

[10] Site access and circulation for emergency vehicles.

[11] Projected trip generation information regarding site preparation, construction, and operation, which may include local traffic conditions, roadway conditions, and school bus schedules.

[12] Identification of any public or private runway, airstrip or airport within one mile of the proposed solar array, and provision of any FAA/MAA clearance that may include a glare analysis other documentation as necessary.

(b) Environment:

[1] All existing vegetation, indicating general size and composition, environmental features, showing buffers as necessary, shall be identified and located on the plan.

[2] All forested areas impacted or proposed for removal shall be mitigated

and protected in accordance with Chapter 18:2, Forest Conservation Act.

[a] If reforestation is required, planting may be incorporated as landscaping per §18:2-14.A.

[3] Show that the gross usable area for panels will exclude wetland areas that are regulated by the Maryland Department of the Environment or the U.S. Department of the Interior (administered by the U.S. Army Corps of Engineers). Impacts associated with access or interior roads and utility crossings shall provide the necessary Authorization for any disturbances.

[4] All natural resources are to be identified and protected in accordance with Chapter 18:1, Part 4, Article IX.

[5] Identification on the plan of the site's soil type and composition. Existing top soil shall not be removed from the site.

[6] To the maximum extent practicable, the solar arrays shall be sited using natural topography and vegetation to buffer it from the view of adjacent properties and roads and/or rights of way.

[7] Solar arrays shall not be located in special flood hazard areas within the jurisdiction of Queen Anne's County and identified in §14:3-5 without the proper review and approval by the Floodplain Administrator.

(c) Landscaping:

[1] Provide a detailed landscape plan, which may be a combination of plantings, existing vegetation, fencing, berms, and at a minimum shows the following:

[a] A vegetated buffer that is a minimum of 50 feet wide around the perimeter of the site area of the utility scale solar array. This buffer may be located within the required setback.

[b] Existing healthy vegetation within the required buffer area may be used to satisfy the specific buffer standards.

(1) In the event that healthy vegetation which is intended to meet the buffer planting requirements is cleared, damaged, or destroyed, the vegetation shall be replaced with the same species or with an approved substitute. The removal of any existing vegetation shall void any credit received and a revised landscape plan shall be submitted.

[c] Where existing vegetation is retained, a required berm installation may be reduced in whole or in part by the Board of Appeals.

[d] The plan shall be prepared by a licensed landscape architect registered in the State of Maryland.

[e] Where a phased construction plan is proposed, the landscape plan shall identify the phasing of the plantings applicable to each construction phase.

(1) Regardless of phasing, a minimum 50% of the landscaping shall be installed prior to initial certificate of occupancy.

[f] The vegetation shall visually screen the solar array from all adjacent residential uses and zones, from publicly traveled ways (public roads, trails, waterways, scenic highways and byways) publicly owned properties, open space, preserved farms, and historic resources including sites and buildings listed or eligible for listing on the state and national registers of historic places.

[g] The vegetation shall screen the solar array upon maturity or within five years.

[h] Native plant species are recommended. Non-native plant species shall not total more than fifty percent (50%) of all plantings. Invasive species shall not be permitted.

[i] To ensure adequate variety, and avoid monotony and uniformity within the buffer, plant materials shall not include more than twenty-five percent (25%) of any single species. Plantings, detailed in a plant schedule on the plan, shall include a mix of evergreen and deciduous trees, understory trees, shrubs, and flowering herbaceous layer.

[j] All plant material shall conform to the plant size specifications as established by the American Standard for Nursery Stock ANSI Z60.1-2014 and shall be planted to the following specifications:

(1) A minimum of two staggered rows of evergreen trees that at installation, shall be at least 6 feet in height, planted on centers of 6 to 12 feet depending on plant type. Evergreen tree species shall be a varied mixture of compatible types and achieve a height of 8 feet in a minimum of 2 years.

(2) Deciduous shade trees with a minimum size at installation of 2 inch caliper shall be interspersed with the evergreens, planted on center no greater than 100 feet.

(3) Understory trees with a minimum size at installation of 1 inch caliper or 6 feet in overall height each planted on center no greater than 100 feet.

(4) Shrubs, intermediate or tall, with a minimum size at installation of 24 inches in height or 30 inches in spread.

(5) The buffer shall include a flowering herbaceous layer for

pollinators or other beneficial habitat. The layer mixture shall be planted a minimum of 5 feet wide and include a minimum of 10 plant species with a minimum of 2 flowering seasons. The herbaceous layer, if seeded, shall demonstrate 75% growth within a 3 year surety period.

(6) The height of proposed plantings may require alternatives based upon the site elevation and visibility from adjacent properties and roads and/or rights of ways. If necessary, an elevation or perspective illustration exhibit shall be provided with viewpoints from relevant locations around the site.

[k] A landscape berm, a minimum of three (3) feet high to assist in screening, may be required. The requirement of providing a berm will be evaluated by staff, may be recommended by the Planning Commission, but finally determined by the Board of Appeals.

(1) The design of any berm shall be such that the natural drainage patterns of the site will not be altered.

[l] Irrigation shall be provided for maintaining plant materials in a healthy condition for all newly created landscape buffer areas.

(1) Plants shall be watered in a manner adequate to ensure establishment and survival. The landscape plan shall include a watering schedule appropriate for the proposed plantings, which may include service by on-site irrigation or water truck, until the plant material is sufficiently established to survive on natural soil moisture. An irrigation system is subject to the following:

[i] The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas such as adjacent properties, roadways, or structures.

[ii] All automatic irrigation systems shall be designed to minimize water usage, and shall be manually shut off during water emergencies or water rationing periods.

[iii] An alternative form of irrigation for a particular site may be approved through the applicable review process upon determining that underground irrigation is not necessary or available for the type of plant material being proposed.

[m] A maintenance agreement shall be provided with a surety or other financial assurance per Part 7, Article XXVII of Chapter 18 to

cover replacement of the plantings and/or irrigation system for any failed plantings and/or irrigation system. All plantings shall be maintained in a live, healthy condition for the duration of the solar array use and shall be replaced by the solar array operator or owner as necessary to maintain all required screening.

[n] The surety, which may be provided on a phased basis per a landscape phasing plan, and is based upon an estimate no more than a year old, shall be held by the County for a period of 3 years following planting, after which the County, upon satisfactory inspection of the landscape buffer, may release 50% of the surety. After an additional 2 years, to ensure proper survival and maintenance of the planted material, and upon satisfactory inspection, the County may release the remainder of the surety. The County reserves the right to inspect and require replacement of failed plant material for the duration of the solar array.

(d) Setbacks:

[1] 75 feet from any lot line

[2] 100 feet from any road and/or right-of-way

[3] 150 feet from any residential use or zoning district

[4] Setbacks shall be measured from the nearest solar panel/structure within the solar array.

[5] If multiple abutting parcels are proposed as part of the solar array, setbacks of §18:1-14.E(2)(c) shall apply.

(4) Solar arrays shall be constructed and maintained according to following:

(a) If solvents are required for cleaning of solar modules, they must be biodegradable.

(b) All broken or waste solar modules shall be removed from the site within 60 days of being taken out of service.

(c) All wiring not on the solar arrays shall be underground except where necessary to connect to the public utility.

(d) Any required utility right-of-way shall be secured through an easement, lease, service agreement or other legally binding document.

(e) The solar array shall be enclosed by a fence or other appropriate barrier at the interior edge of the required landscape buffer or immediately adjacent to the solar array. The fence or barrier shall:

[1] Secure the facility at all times and prevent unauthorized persons or vehicles from gaining access.

[2] All access gates will provide a sign that identifies the responsible parties or owners and 24 hour contact information.

[3] Be a maximum of 8 feet in height. Wire mesh shall be black or green vinyl. Barbed or razor wire is prohibited.

(f) Provide documentation that noise generated by the facility shall be limited to 60 DBA as measured at the property line except when a back-up generator is needed for maintenance. Construction on the site is exempt from this standard.

(g) Solar arrays, including the electrical and mechanical components, shall conform to relevant and applicable local, state and national codes.

(h) To protect adjacent properties, and not interfere with roadways or create a safety hazard, evidence shall be provided that the solar panels are designed to avoid glare and/or reflection with anti-reflective coating or non-glare technology and if necessary, have been evaluated with a solar glare hazard and analysis tool.

(5) Decommissioning and Abandonment:

(a) A bond or other financial assurance shall be required to assure complete removal of a utility scale solar array. The financial assurance shall be automatically renewable. The amount shall include a mechanism for calculating increased removal costs due to inflation to ensure the amount is adequate for the cost of removal and restoration of the site. A financial assurance provided to satisfy the conditions of the Maryland Public Service Commission 's Certificate of Public Convenience and Necessity may also satisfy this requirement provided it complies with the foregoing and is enforceable by the County. Removal shall occur within one (1) year of the earlier of:

[1] The end of life of the solar array with a decommissioning plan; or

[2] Abandonment.

(b) The operator of a solar array shall provide written notice to Queen Anne 's County whenever the solar array is out of active production for 6 or more months.

(c) Any utility scale solar array that has not operated for a continuous period of 12 months shall be considered unused and abandoned and the conditional use will expire unless the Board of Appeals grants an extension. The owner of the solar array may present substantial evidence that cessation of the solar array occurred from causes beyond the owner 's reasonable control, that there is no intent to abandon the solar array, and that resumption of the solar array is reasonably practicable.

(d) Removal of a solar array and restoration of the site shall occur within 1 year of receipt of notice from Queen Anne's County notifying the owner of the equipment removal requirement. Removal includes removing any underground structures or supports and electrical transmission wire. All materials must be legally removed from the site. The site shall be restored to its original condition after removal when

abandoned or in accordance with a decommissioning plan.

(e) A decommissioning plan shall include but is not limited to:

[1] The expected life of the solar array.

[2] Time frame for decommissioning of the solar array.

[3] An estimate of the costs associated with the removal of the solar array minus with any salvage value.

[4] Proposed stabilization measures including an approved sediment and erosion control plan.

[5] Removal of all above and underground equipment, structures, fencing, and access roads.

[6] Only like-kind topsoil may be used for restoration.

[7] Legal documents shall be created outlining the legal responsibility for any environmental pollution that occurs after the solar array is removed.

[8] Any alteration to the decommissioning plan or necessary restoration shall require Board of Appeals approval.

[9] An End Use plan showing the following:

[a] The proposed condition of the site once the solar array has been removed.

[b] The property owner may request to retain vegetation planted and/or berms that were required by the solar array use, as well as access or interior roads, and fencing.

[c] If the End Use is to be open space, then documentation shall be provided in the form of restrictive covenants.

[d] Any afforestation or reforestation or other vegetative planting.

SECTION III

BE IT FURTHER ENACTED, that a new Section 18:1-49.1 entitled "Small Scale Solar Arrays" is ADOPTED as an addition to Section 18:1 of the Public Local Laws of Queen Anne's County, Maryland which shall read as follows:

§18:1-49.1 . Small Scale Solar Arrays

As an accessory use , small scale solar arrays will be designed and intended to offset part or all of the beneficiary 's requirements for energy consumption provided that:

A. Siting and location

1. Is located on the beneficiary 's premises or shared premises for the beneficiary 's

use.

2. Is secondary to the beneficiary 's use of the premises.
3. When mounted on a roof:
 - a. Shall not extend beyond the surface of the roof by more than necessary for proper operation or a maximum of 10 feet above a roof.
 - b. The total height of the building or structure, including the solar panels or collection devices, shall comply with the height regulations established in this Chapter.
4. When mounted on the ground:
 - a. Shall meet all accessory setbacks on residential properties.
 - b. When located on a residential property, shall be located only in side or rear yards
 - c. If constructed as a roof above a parking area, shall be subject to applicable height limitations.
 - d. When located on a commercial or institutional property, shall meet all required setbacks.

B. Installation

1. Certification of the structural safety of the system must be provided to ensure that the system does not cause a hazard to the health, safety, or welfare of adjacent properties.
2. All roof mounted systems shall provide evidence of compliance with fire safety codes and be accessible in the event of emergency.
3. Residential applications shall have a safety mode system capable of shutdown via a clearly marked and readily accessible switch.

C. Performance standards

1. Submittal of a plan or survey with existing conditions and structures that shows where the solar array is to be located.
2. All setbacks will be shown with distances indicated from property lines.
3. The plan shall show that any glare, glint, or reflection from the solar array is oriented away from adjacent residences or buildings.
4. The solar panels or devices proposed will be identified on the plan and show that they are designed with anti-reflective coating.
5. If any lighting is proposed for security purposes, all lighting must comply with §18:1-85.
6. Shall comply with Stormwater Management regulations.
7. When located on a commercial property shall not exceed the permitted impervious surface limitation.
8. If located in the Critical Area, shall comply with lot coverage limitations.
9. Environment
 - a. Landscaping and screening
 - i. Shall be screened from public view to the maximum extent practicable.
 - ii. Natural features and existing vegetation may be used to screen a solar array from adjacent residences and properties
 - iii. Screening shall be designed on a landscape plan and may consist of fences, berms, or vegetation that sufficiently screen the solar arrays at the time of installation.
 - iv. All vegetation planted for screening shall be maintained for the duration of the solar array 's operation via a maintenance agreement.
 - v. A landscape surety shall be provided. The surety will be held by the County for up to 3 years and upon inspection, may release up to 50% and then held for 3 additional years to determine the plant material has been maintained in good health. The County reserves the right

- to inspect and require replacement of plant material.
- b. Solar arrays shall not be located in special flood hazard areas within the jurisdiction of Queen Anne 's County and identified in §14:3-5 without the proper review and approval by the Floodplain Administrator.
 - c. No disturbance to wetlands is permitted.
 - d. No forest or woodland may be cleared without first complying with the Forest Conservation Act, §18:2.

SECTION IV

BE IT ENACTED BY THE COUNTY COMMISSIONERS OF QUEEN ANNE'S COUNTY, MARYLAND, that Section 18:1-139 of Public Local Laws of Queen Anne's County be and is hereby REPEALED and RE-ENACTED to read as follows:

Article XXV Site Plans

§18:1-139. Applicability

A. When required.

. . .

(3) Site plan approval is required for all utility scale solar arrays.

SECTION V

BE IT FURTHER RESOLVED that this amendment shall take effect immediately following its enactment.

INTRODUCED BY: Commissioner J. Wilson

DATE: November 28, 2017

VOTE: 4 Yea 0 Nay (Commission Buckey absent)

DATE OF ADOPTION: January 23, 2018