

Article 8 Renewable Energy Ordinance

Section 801. Introduction and Purpose

A. Purpose

The purpose of this ~~section~~ Article is to:

1. Specify Conditional Use Permit (CUP) application requirements for the development of utility-scale renewable energy production facilities. The permitting process requires thorough review to help ensure that potential adverse impacts are carefully identified, addressed and mitigated. Due to the scale and complexity of these projects, they require more information and more time to process compared to typical applications. Therefore, the requirements in this Article 8 are in addition to the basic requirements in Article 1106-1107, unless otherwise specified herein.
2. Establish reasonable standards for the permitting, construction, operation, maintenance, and decommissioning of utility-scale renewable energy generation facilities.
3. Further the County's goals of protecting public health, safety, convenience, and general welfare, protecting the County's natural, cultural, and visual resources, and minimize adverse impacts through clear and enforceable siting and performance standards, and through applying appropriate conditions of approval.
4. Approve only Utility-Scale Renewable Energy projects that:
 - a. Provide significant long-term local public benefit;
 - b. Demonstrate proposed project design, siting, and construction, operation and decommissioning plans that comply with County standards;
 - c. Clearly identify all potential adverse project and cumulative impacts, and propose measures to avoid, minimize and fully mitigate all identified potential adverse project impacts;
 - d. Satisfy CUP evaluation criteria and standards in Article 11, and do not shift project related costs or risks to neighbors, County residents, local or state agencies, or onto the taxpayers; and
 - e. Submit a complete application with reports and studies subject to 3rd party review at the applicant's expense prior to P&Z public hearings to consider the CUP.

B. Applicability

This Article does not apply to personal or institutional renewable energy generation equipment that is intended to generate electricity to serve on-site residential, agricultural, or institutional uses ~~for use that are~~ primarily on the property on which the

equipment is located, or to facilities with an actual or planned generating capacity of less than one megawatt. These include, but are not limited to, small wind energy systems and small solar energy systems, including ground-mounted systems, roof-mounted systems, pole-mounted systems, and systems affixed to shade structures located over parking areas.

Section 802. Definitions

A. The following terms are defined as follows for purposes of this Article. Other definitions may be found in Article 2.

Abandonment – The formal and complete discontinuation of a renewable energy project or component part of the project, before the end of its intended operational life, resulting in the need for removal by the controlling entity of project components and related infrastructure, and the restoration of the site to its pre-construction condition vs decommissioning (see decommissioning).

Affiliate – A company, entity, or person that is related to or controlled by another company in a way that meets regulatory or legal definitions, and that may have a role in the project's structure, financing, or operations.

Applicant—Individual, organization, or entity that formally submits the project proposal, permits, and required documentation to the relevant regulatory authority for review and approval.

Agri-Voltaics – A system in which photovoltaic solar-energy panels and facilities ~~are~~ may OR are integrated with ~~be integrated~~ with agricultural production on the same site, allowing agricultural activities and electric generation to occur concurrently.

Does the Commission intend agri-voltaics to mean a solar facility that actually incorporates agricultural production?

If we say agricultural production 'may be integrated,' almost any solar facility potentially qualifies as agri-voltaic. If we say it 'is integrated,' then actual coexisting agricultural production becomes part of the definition.

Alternative Energy Storage System – A system that differs from battery energy storage system, including but not limited to: mechanical, electrochemical, electrical, thermal, and/or chemical systems as classified by the U.S. Department of Energy (DOE).

Biomass Energy Production – The production of energy, particularly electricity, ~~from~~ using ~~from woody~~ fuel (feedstock) from any of the following, but not limited to: green

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tree thinning, **wildfire mitigation, brush removal, watershed/grassland restoration work, dead tree salvage operations**, logging residues and mill scraps. ~~considered waste by products, generated through forest, woodland, and/or grassland restoration treatments, as well as dead tree salvage operations.~~ **These are all standard land management practices that facilitate maintenance of a renewable supply of trees/shrubs.**

(Matt will work with Monica and Melana for a better definition)

Blades – The aerodynamic components attached to the rotor hub that capture the kinetic energy of the wind, convert it into rotational mechanical energy, and drive the generator to produce electricity.

Blade Failure/Fragment Throw – The loss of structural integrity or complete detachment of one or more rotor blades from the turbine hub, rendering the blade unable to perform its aerodynamic function and potentially causing significant operational and safety issues. The An event where either a full blade or a segment of it is propelled through the air, potentially traveling significant distances before coming to rest, leaving a substantial contaminated issue of the area. Other substantial fragment particles can come from the hub and nacelle mechanisms.

Communications Impact Analysis – A thorough assessment, performed by a **qualified or certified consultant at the project developer's expense, of possible interference to all forms of radio frequency (RF) communications due to construction or placement of wind turbines, power-lines/poles, other tall structures, or facilities/components that can distort radio frequency spectrum important to emergency services providers, Federal-State-County-Municipal government agencies, utility companies, FCC-licensed equipment owners/operators, and local amateur radio citizens groups. The analysis determines which existing RF transmission/reception capabilities in the vicinity may be impacted by the proposed project, including the cumulative effects of all other existing and known proposed renewable projects which may contribute to interference in the same vicinity. It also identifies effective and practical mitigation measures the project developer could implement to avoid or minimize any foreseen interference.**

[Explanation] P&Z questioned the word “qualified” consultant in the first sentence, with “certified”, “licensed” or similar professional criterion preferred.

Upon further research, there is no appropriate one-word replacement term specified by the FCC for such consultants that perform this type of study. But there are qualifying criteria that should be considered for such consultants. Thus, we recommend keeping the original word “qualified” in that definition, and supplementing Section 802 with the following Qualified RF Communications Consultant definition.

Controlling Entity – The legal or organizational body that has overall responsibility for the project’s planning, operation, financing, and completion, and that can direct the financial and operational decisions of the project’s key participants.

Cultural Resources – The tangible and intangible heritage elements (such as: terrestrial archeological resources, above ground pre-historic and historic resources, Tribal cultural landscape and sites, visual resources) that may be present within or near a project’s footprint and that are protected under laws such as the National Historic Preservation Act (NHPA), the Native American Graves Protection and Repatriation Act (NAGPRA), and state or tribal cultural heritage regulations.

Cumulative Impacts – The total estimated effects of a proposed project when combined with the impacts of known past, present and foreseeable-future projects, over time and across the affected area.

Decibel A-weighting (dBA) – dBA is a measurement of sound using decibels that have been A-weighted. A-weighting is a frequency-dependent curve (or filter) that is applied to a sound pressure microphone to mimic the effects of human hearing. Given the same sound pressure level, microphone recordings can be different from the levels perceived by the human ear.

Decommissioning – The structured process of dismantling and removing the entire renewable energy system when it reaches the end of its operational life or when it is no longer economically viable to operate. It is a planned, regulated process that ensures safe removal, environmental protection, and site restoration by the controlling entity. As a part of the decommissioning, complete restoration of the project area will be restored.

Fall Zone – A fall zone is the area of the land surrounding a wind turbine that may be affected by debris should the supporting structure collapse or any component of the wind turbine or anything attached to it fall to the ground.

Glare – The visual sensation produced by bright light or reflection of sunlight that causes discomfort or visual disruption such as temporary after-images or retinal damage.

Hazardous materials – Hazardous materials (HAZMAT) are substances or physical conditions that pose a risk to health, safety, property, or the environment during storage, use, transport, or disposal. They can include chemicals, biological agents, radioactive substances, flammable liquids, explosives, corrosives, oxidizers, and more. Hazardous

materials are any substance toxic to humans, animals, birds, plants, and all other life forms.

Hybrid Renewable Energy Storage System – A coordinated facility, system, or combination of interconnected facilities that incorporates one or more Renewable Energy Production Systems with one or more Energy Storage Systems, and is designed to generate, convert, store, manage, dispatch, or deliver energy from renewable resources. A Hybrid system may be co-located or physically interconnected, may share electrical, transmission, distribution, control, access, or other infrastructure, and may operate as a single integrated facility or as multiple coordinated facilities. The term includes associated equipment that is reasonably necessary for the operation of the system, including generation equipment, energy-storage equipment, transformers, substations, inverters, converters, interconnection equipment, control systems, communications equipment, access roads, and other accessory infrastructure.

Highway Repair Bond – A type of surety bond or other acceptable monetary means of compensation that guarantees a contractor or permit holder will complete highway(s) repair or improvement work according to the agreed terms, and will restore the roadway or related public property to its original condition if required.

Highway Use Agreement – (Road Use Agreement) is a written contract between a local government (such as a state, county, municipality, or town) and another party—often a developer, contractor, or company—that authorizes the use of a specific highway(s) or other public road(s) subject to agreed upon terms and conditions.

Highway Video Log – A structured, time stamped, and often geolocated video record that documents the condition, activities, and compliance of a highway or roadway throughout its lifecycle. It is used to capture visual evidence before, during, and after work on the road, providing an auditable, verifiable account of site conditions and actions.

Infrasound – Is very low-frequency sound waves with frequencies below the human hearing threshold—typically under 20 Hz—which is below the range of normal human hearing. Although humans cannot perceive it as a tone, it can be felt as vibrations and can still have physiological or wildlife/environmental effects. These waves are produced by wind turbines through aerodynamic and mechanical processes, and it can travel long distances. Not measured the same as dBA audible sound.

Major Highway – Any public roadway classified as a principal arterial or minor arterial under the most current functional classification system adopted by the State Department of Transportation or the County, including U.S. Highways, State Routes,

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and Interstate Highways, and any other roadway designated by the County as carrying regional or statewide traffic volumes of significance.

Micro-siting – Slight adjustments to the location of project components within an approved project to allow flexibility to avoid unexpected issues such as soil instability, sensitive environmental areas, cultural resources or critical wildlife habitats discovered during on-the-ground engineering review during the pre-construction phase. Micro-siting changes must not exceed 100 feet in distance from approved location, and must not increase component height, increase visual or auditory impact on any sensitive receptor, or encroach on setback requirements. Each micro-siting adjustment must be approved in writing (with latitude/longitude coordinates) by the Community Development Director after field review of each proposed adjustment to ensure it complies with criteria above. Adjustments that exceed micro-siting criteria will be treated as Substantial Modifications.

Non-participating Parcel – Any parcel of real property that is not subject to a recorded lease, easement, option, or other written agreement granting permission for the placement, construction, operation, or maintenance of a renewable energy facility and that is not under common ownership or control with the applicant or facility operator. A Non-Participating Parcel includes property owned by individuals, entities, or public agencies that have not executed a participation agreement with the renewable energy facility applicant at the time a complete application is submitted to the County.

Operator – The professional or team responsible for managing and running of the renewable energy project and the associated wind, solar and battery systems from commissioning through decommissioning.

Owner – The legal entity—such as a company, partnership, or individual—that holds title to the project's assets, rights, and obligations, and is responsible for its financial, operational, and regulatory management.

Participating Parcel – Any parcel of real property that is subject to a legally binding, written, and recorded lease, easement, option, or other agreement granting the renewable energy facility applicant or operator the right to construct, install, operate, maintain, or decommission renewable energy equipment or related infrastructure on **contiguous** parcel, and that is in effect at the time a complete application is submitted to the County. ~~A Participating Parcel also includes any parcel under common ownership or control with the renewable energy facility applicant or operator that is designated as part of the renewable energy project site.~~ **Any participating parcels under a lease, option, or agreement that is recorded at application, must be checked to make sure they have not expired before construction and that they continue through construction, operation and decommissioning.**

Photovoltaic Cells / Solar Panels – An electrical system or device that converts energy from the sun directly into electricity by the photovoltaic effect using photoelectric cells, also known as solar panels.

Project Boundary – The boundary of a renewable energy generation project as set forth in the project site plan and incorporated into the CUP. **Boundary to include all contiguous and non-contiguous parcels, easements, options, leased areas, collection systems, substations, staging areas and phases under common control or serving the same interconnection.** Legal Description must be included and include type of ownership; State, BLM, Private, Federal, etc., bordered by the project's perimeter boundary including Township, Section, and Range.

Qualified RF Communications Consultant – A currently state-registered Electrical Professional Engineer (P.E.) highly trained in electronic transmission equipment and communications systems, with strong demonstrated experience in performing studies, evaluation, and technical written submissions specific to RF communications, including various forms of interference affecting cellular phone, 2-way radio (UHF/VHF/shortwave), broadcast (AM/FM/TV), microwave path, digital data, and weather radar. Knowledge of RF propagation modeling, Fresnel-zone analysis, received signal calculations, signal-to-noise ratio and interference-to-noise measurements, antenna patterns, electromagnetic frequencies, and wind turbine blade/tower/generator caused scattering-reflection-clutter-diffraction-multipath concepts are all important. Proficiency in GIS terrain mapping software, plus FCC database and regulatory experience are equally required.

Renewable Energy -- Power generated from natural resources that renew themselves, including but not limited to solar, wind, hydropower, geothermal, and biomass.

Renewable Energy Research Facility – A center focused on the study, testing and creation of renewable energy power generation and/or storage systems, typically associated with or overseen by an existing major Utility or University.

Renewable Energy Site Plan – A detailed, scaled graphical and technical document that shows how a proposed renewal energy facility will be laid out on a specific piece of land, as defined by the legal description. Including all the supporting infrastructure, environmental constraints, and operational considerations. It is the master layout blueprint used by developers, engineers, regulators, and stakeholders to guide design, permitting, construction, and operation. (See also Article 2)

Repowering – The process of upgrading or replacing major project components (including but not limited to: wind turbines, substations, transmission lines, solar arrays, etc.) with different equipment or location than in the approved CUP, amounting to a

substantial modification. Minor repairs or replacement of identical equipment in the same foundation location does not constitute repowering.

Rural Land Use –

Scenic Travel Corridor – A major travel route that provides important scenic views of the County’s rural landscapes, unique landforms, vistas and open spaces, which contribute to tourism, community identity and visual character as seen and experienced by residents and visitors traveling through the region.

Sensitive Receptor – Any location, structure, or place (for instance: residences, seasonal homes, schools, hospitals, natural or cultural sites, public facilities or other buildings where people live, work or gather) that is particularly vulnerable to adverse impacts from a renewable energy operations, such as noise, vibration, shadow flicker, or visual impact, and whose protection is important for human health, comfort, or environmental quality.

Setback Distance – The distance measured as follows: (i) For wind turbines, from the center of the turbine foundation; and (ii) for solar facilities, from the nearest outer edge of the solar equipment footprint or the nearest project perimeter fence, whichever is closest to the setback boundary; to the nearest applicable property line, edge of a public road right-of-way or railroad right-of-way, third-party transmission line, above-ground pipeline, communication tower, other structure, or other boundary established by Apache County.

Shadow Flicker – The repetitive alternation of light and shadows cast across the surrounding landscape due to sunlight interrupted by turning wind turbine blades; shadow length is determined by total turbine height and sun angle.

Storm-Water Runoff and Erosion Control Plans – Detailed site-specific plans showing existing and proposed drainage, retention and other stormwater control structures correctly sized and placed to carry and/or capture excess rain, snowmelt or other precipitation that results from flow over or across the ground surface, impervious surfaces or structures like solar panels, roads, concrete pads, smooth roofs, access ways, or other compacted areas, and is not immediately absorbed into the soil.

Substantial Modification – Proposed changes in project design or components which alter (including but not limited to location, number, size, MW capacity, different technology, or equipment type, **safety systems**, etc.) in such a way that adverse impacts may be increased and/or require different mitigations. Micro-siting adjustments of 100 feet distance or less should not typically constitute a substantial modification, unless a protected resource or receptor would be adversely impacted by that change. **A**

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substantial modification requires formal regulatory review and approval of a new CUP application. (Also see Micro-siting definition.)

Successor – The person, company, or entity that legally and operationally takes over the rights, obligations, and responsibilities of the original party (often the project developer, contractor, or owner) after that party’s exit from the project. This can occur through a succession agreement, contract assignment, or transfer of ownership.

Total Wind Turbine Height – The maximum total height from ground level to the top of a vertically-oriented blade-tip, or topmost extent of some other designed wind energy collector.

Utility-Scale Renewable Energy Production Facility – A renewable energy system primarily to generate electricity for distribution to off-site customers through the electrical grid and renewable energy storage systems having an actual or planned generating capacity of at least one (1) megawatt, including but not limited to accessory structures and buildings, including substations, anemometers, meteorological towers, gen-tie lines, and associated electrical infrastructure. The term does not include small wind or solar systems designed primarily for on-site residential, agricultural, or institutional energy consumption.

Utility-Scale Solar Energy Project – An energy generation facility using solar energy from the sun to generate electricity by the photovoltaic effect using photoelectric cells, also known as solar panels, and accessory structures and buildings, including but not limited to substations, gen-tie lines, associated electrical infrastructure and related energy storage systems to generate electricity for off-site customers tied into the local electrical grid, with the actual or planned ability to generate at least one (1) megawatt. The term does not include stand-alone solar electricity generating systems primarily for on-site residential, institutional, or agricultural use which do not feed residual power into the electrical grid as defined by the Arizona Corporation Commission.

Utility-Scale Wind Energy Project – An energy generation facility using wind technology and consisting of one or more wind turbines and accessory structures and buildings, including but not limited to substations, anemometers, meteorological towers, gen-tie lines, associated electrical infrastructure, and related energy storage systems, with an actual or planned generating capacity of at least one megawatt. The term does not include stand-alone wind electricity generating systems primarily for on-site residential, institutional, or agricultural use which do not feed residual power into the electrical grid as defined by the Arizona Corporation Commission.

Visual Impact – Refers to the change in the appearance of a landscape and the visual experience of people caused by the presence and operation of a renewable

Visual Resource -- Natural or built landscape features that contribute to scenic character and are visible from publicly accessible locations such as designated scenic highways, established public parks, recreation areas, historic sites, or recognized viewpoints or scenic travel corridors as may be identified in the Apache County Comprehensive Plan.

Water Use – The total amount of freshwater withdrawn, consumed, or otherwise utilized throughout the project’s lifecycle from manufacturing and construction to operation and maintenance for specific purposes, excluding the operational electricity generation phase.

Wildlife Management Area –

Wildlife Viewing Area –

Wind Turbines – A wind energy system that uses the wind to turn a set of aerodynamic blades, interact with wind receptacles, or similar devices attached to an electric generator or turbine. The term does not include small wind turbines with an actual or planned generating capacity used primarily to generate electricity for on-site residential, institutional, commercial, or agricultural use.

Section 803. Zones in Which Allowed / CUP Required

Renewable Energy Generation facilities are allowed only in the Agricultural-General and Industrial Zones, subject to securing a Conditional Use Permit (CUP) and to the applicable site development standards set forth herein. The CUP application shall comply with this Article and Article 11 of the Apache County Zoning Ordinance.

A. Preferred Criteria

When reviewing applications for Renewable Energy Generation Facilities, Apache County shall consider consistency with the Apache County Comprehensive Plan and applicable County Community Plans and favor site locations in areas identified as suitable for energy development. The following preferred criteria are intended to guide project design and site selection in a manner that best protects public health, safety, and welfare, minimizes land use conflicts and protects the County’s natural, cultural, and scenic resources.

These criteria are intended to guide planning and mitigation strategies in order to protect the public health, safety, and welfare of the residents of Apache County.

1. **[Re-Word] Proximity to Existing Springerville and Coronado Generation Stations and Transmission Infrastructure** — Sites ~~should be~~ located close to existing ~~Generating Stations~~, transmission lines, substations, and interconnection points, to reduce the need for construction of new transmission infrastructure, ~~and minimize the need for new interconnection lines to cross scenic travel corridors and the Little Colorado River. OR: and transmission lines do not cross the Little Colorado River or major highways.~~
2. **Lower Habitat and Vegetation Sensitivity** — Sites with limited wildlife habitat or vegetation sensitivity and located away from designated wildlife management and wildlife viewing areas.
3. **Distance from Population Centers** —
 - a.) Utility-scale renewable energy facilities should be located in the most remote and sparsely populated areas of Apache County where they minimize conflicts with existing and planned residential development, incorporated municipalities, established unincorporated communities, residential subdivisions, airports, schools, parks, and other areas of concentrated public activity.
 - b.) Utility-scale renewable energy facilities should be located primarily downwind, to the east/northeast of population centers, such that flames, smoke, toxic fumes or airborne contaminants from accidental fires, leaks or discharges are more likely to burn or blow away from population centers.
 - c.) Preference shall be given to locations that maximize separation from areas of existing and anticipated population growth while protecting public health and safety, preserving community character and non-participating property values, and maintaining compatibility with the Apache County Comprehensive Plan and applicable County Community Plans.

[MOVE TO 806] Measurement will commence (see setbacks Section 806) from municipal boundaries or in unincorporated communities from their fire district boundaries or community comprehensive plan boundaries: designated subdivision boundaries, parks, schools, airports and other public activity from property lines.

4. **Compatible With Existing Land Uses**

Preference should be given to locations where utility-scale renewable energy development supports continued agricultural and grazing operations, and minimizes conflicts with neighboring, properties, and other established rural land uses.

5. **Topographic Suitability**

Locations where terrain is conducive to construction and maintenance, minimizing the need for extensive grading and vegetation removal disturbance, and/or subsurface rock layers are geologically stable to support facility foundations. Prohibits any industrial wind energy complex construction in the Springerville Volcanic Field due to its unstable geological nature.

[Public meeting to discuss amending the Comprehensive Plan] (APACHE COUNTY MUST ADOPT THE PRIMARY PREFERRED AREA AND THE SECONDARY PREFERRED AREA AS A PART OF THE APACHE COUNTY COMPREHENSIVE PLAN, IN ORDER TO MANDATE THESE PROJECTS IN THE DESIGNATED AREAS).

6. Sites With Minimal Visual Impact

Sites that have minimal visual impact on significant landforms, scenic travel corridors, scenic viewsheds of widely recognized aesthetic, historic or recreational value, and on scenic vistas as seen from existing residences, or sites which are more than 10 miles from Visual Resources.

B. Non-Preferred Criteria [REWRITE ALL]

~~1. Applicant required to explain how conflicts are avoided or mitigated on every preferred—criterion as provided by Section A above.~~

~~2. Applicant shall be allowed to submit a proposed site selection alternative outside of preferred area, after alternative analysis has identified other locations that were considered, and why the site selected is superior or necessary over the preferred area.~~

~~3. Applicant must provide measurable siting factors to include but not limited to: mapped data layers for communities, residences, scenic corridors, wildlife areas, cultural/archaeological resources, wildfire risks, transmission lines, and military aviation constraints, water availability, dark skies, roadways and infrastructure, and possible cumulative impacts with other projects.~~

~~4. Applicants proposed siting plan must comply with Apache County's Comprehensive Plan or local Community's Comprehensive Plan.~~

~~5. County Attorney Office will review the final siting system for consistency with ARS 11-811 and ARS 12-1134, Section A through I, remainder of this statute is irrelevant including the statutory protection of property rights and the exception for health/safety and utility facility location regulations. The record must show the factual basis for each standard.~~

Section 804. General Development Standards

A. Pre-Application Meeting

[Linda Weiland re-write] The applicant shall participate in a mandatory pre-application meeting with Apache County Community Development staff prior to submission of a Conditional Use Permit (CUP) application. The purpose of the meeting is to review the CUP process, review the Pre-Submittal Checklist ([Article 8 Appendix A](#)), identify potential issues early in the process, and clarify the information required for a complete application.

~~The applicant and Apache County may invite will meet with~~ representatives from relevant agencies, including but not limited to ~~Engineering, Emergency Management, affected municipalities/Tribal government, local fire districts, nearby towns, OR nearby town governments,~~ the Arizona Game and Fish Department (~~AGFD~~), the Arizona Department of Transportation (~~ADOT~~), the Apache Natural Resource Conservation District (ANRCD), and other applicable ~~land-management~~ agencies. ~~A memorandum will require documented studies, agency reports, deadlines and unresolved issues identified during the meeting or each individual meeting, as appropriate.~~

Apache County Community Development Department will coordinate the Pre-Application Meeting. The Department will invite participants to attend in person, virtually, or to submit comments in writing, and will keep any correspondence, emails, and notes from telephone or other communication with agencies regarding the project in the pre-application or project file.

Prior to the pre-application meeting Agencies will be provided with a project description, legal description, preliminary site plan and request for comments. Agencies to be invited include, but are not limited to: Apache County Engineering, Emergency Management, Environmental Health Departments and County Attorney's office, local fire district or department and other likely responding fire units, nearby municipalities, tribal governments, Arizona Game and Fish Department, Arizona Department of Transportation, Arizona Department of Environmental Quality, Apache Natural Resource Conservation District, and applicable land management agencies.

B. Roads and Access and Construction Traffic

The applicant will construct only the minimum number of on-site access roads necessary for construction, operation, [dust control](#), [erosion](#), [drainage](#), [over-sized loads](#), [emergency-access](#), and maintenance of the renewable energy facility. Temporary access roads, [crane paths](#), and excess roadway widths used during construction,

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repairs, and decommissioning shall be reclaimed and re-vegetated with site-appropriate native species as soon as seasonally practical and to the extent reasonably feasible.

The applicant ~~shall will~~ submit **with the CUP application** a plan of all proposed roads **and crane paths**, temporary and permanent, **including legible topographical maps at a 1" = 200-foot scale with contour interval shown**, for review **by the ANRCD and review approval recommendation** by the Apache County Engineering Department and approval with the CUP application ~~OR and approval with the CUP application~~. All permanent roads ~~shall will~~ be built **and maintained** to ~~the minimum~~ County **Engineering** requirements.

[RE-WRITE ALL] {Insert Don Maxwell's suggested road edits here, as revised to reflect P&Z's 9/22/26 comments.}

~~The applicant will provide detailed route designations for delivery of materials and project components on major highways. An outside independent Engineering analysis, paid for by the applicant, must have a detailed video log of the entire routes, plus an analysis of existing conditions before construction, to include bridge/culvert capacity, oversized loads, school bus routes, emergency delays, pavement damage repairs during construction and snow operations.~~

~~These projects will require a road use agreement, repair bond, post-construction pavement inspection to include pavement analysis and video log, and will be conducted and paid for by the applicant, to determine required pavement restoration on any major highway. All post-construction pavement repairs must be completed before project occupancy permit will be issued.~~

~~Any proposed project road accesses with a major highway must be designated by exact mile marker (MM) locations. Road accesses that are to be permanent will be paved up to the right-of-way line according to ADOT standards. Any ADOT required highway improvements, as a part of the ADOT permit, will be complied with by the applicant. The applicant will provide in the project site plan, detailed drawings for each road access as to: roadway width, turning radii, pavement design and adequate site visibility.~~

~~The applicant will provide a detailed construction work schedule to determine time frames for major traffic interferences due to delivery of major project components. The project owner at the time of decommissioning (see Section 811), will provide a detailed construction work schedule for removal of major project components to determine time frame for major traffic interference due to removal of components.~~

~~The project owner during decommissioning period will provide pre-decommissioning and post-decommissioning pavement reviews as per the pre and post construction requirements. (see Section 811).~~

~~Any highway reports, pavement analysis, video logs or other documents used for determining highway conditions from both construction and decommissioning of a renewable energy project requiring highway repairs, will become the property of Apache County for a permanent project file in Community Development and Engineering Departments.~~

The CUP application shall also provide total miles of temporary cross-country crane paths planned and explain why they cannot be co-located upon engineered project roads. A detailed description shall be provided, including illustrations if appropriate, of all methods that will be used to mitigate crane path impacts to the site-specific soils, vegetation, terrain, wetlands, highway surface, and/or other sensitive resources. *Such methods shall incorporate heavy equipment industry standards for crane operation and resource protections.*

~~Such methods shall include but not be not limited to: pre-surveyed and flagged centerline to best minimize resource damage; use of load-distributing ground mat system suitable to crane size and weight; timing and soil conditions limitations with stop-work triggers; maximum number of passes on each path; crane turns and maneuvering; slope steepness; erosion control; path site repair work; and adherence to local noxious-invasive weed control plan at all locations and work stages.~~

[Explanation for 10/1/26 changes in green italics above: Daric Knight would prefer to see the above stricken paragraph of detailed methods included in Article 8, so the applicant and County officials have a good idea what info is needed from the applicant. However, because the P&Z said in their 9/22/26 Work Session that this “crane path” verbiage is too long and too detailed, we choose to strike it and substitute a new last sentence into the preceding paragraph.]

Prior to CUP public hearings, the submitted maps and narrative shall be reviewed by the ANRCD and an *independent* Arizona-registered civil engineer, *at the applicant’s expense*, with their written reports provided to the County Community Development Director on the plan’s effectiveness for suitable path location, OSHA operator safety requirements for stable supporting ground, soil, vegetation and other resource protections.

C. Electrical Infrastructure and Transmission lines

Electrical collector lines, which connect electricity generation devices to any substations, shall be placed underground, except where **a waiver for** above-ground placement is approved **for specific collector lines** by the County **as part of the CUP** due to engineering, safety, or environmental constraints. **(a) they cross sensitive biological or archeological resources, such as canyons, wetlands, or sites eligible for the national register, or rugged terrain that would prevent the use of underground trenching and technology, (b) project terrain is found to be unsuitable, as determined by the applicant and confirmed by the Apache County Engineer, or (c) burying the lines would violate applicable laws or regulations. In these cases, collector lines will be allowed above ground subject to approval by the Community Development Department and County Engineer. Utility lines serving the electricity or phone requirements of building shall be placed in accordance with the utility easement requirements.**

D. Fire Protection and Emergency Response

Public Safety, Fire Protection and Emergency Management Plan.

The proposed Public Safety, Fire Protection and Emergency Management Plan for construction and post-construction operation of the facility, including plans for ongoing management of forest and fire fuels shall be submitted with the CUP application. This plan must be approved by the fire district or department having jurisdiction and the Community Development Director prior to scheduling Planning and Zoning Commission hearings on the CUP.

Coordination of local emergency services. Applicants for renewable energy facilities shall coordinate with emergency services staff to provide materials, education and/or training to the departments serving the property with emergency services in how to safely respond to on-site emergencies. Additional mitigation may be required if requested by the local or nearest fire district to support response capabilities.

Renewable Energy Generation projects shall include fire control and prevention measures as outlined in the Uniform Fire Code and as required by the local Fire District or State Fire Marshal. The applicant ~~agrees to~~ shall implement fire protection measures for the construction and operation of the energy project that are acceptable to the local fire district and other land management agencies adjacent to the proposed energy project, if any. A preliminary fire prevention and emergency response plan shall be submitted with the CUP application. Final fire protection plans shall be approved by the applicable fire district or authority having jurisdiction prior to issuance of building permits. Detailed Additional fire protection and emergency response plans details shall be submitted and approved as required during the building permit review process. **Additional mitigation may be required if requested by the local or nearest fire district to support response capabilities.**

OR

Renewable Energy Generation projects shall include fire ~~control and prevention measures as outlined in the Uniform Fire Code~~ **protection systems, equipment and administrative controls as specified in the current versions of:**

1. The International Fire Code (IFC);
2. National Fire Protection Association (NFPA) 850, Standard for Fire Protection for Electric Generating Plants and High Voltage Direct Current (HVDC) Converter Stations;
3. NFPA 855, Standard for the Installation of Stationary Energy Storage Systems;
4. And as required by the local Fire District ~~or~~ **and** State Fire Marshal.

The performance objective shall be to provide for life safety and prevention of an exposure fire resulting in a wildland fire event.

The applicant ~~agrees to~~ OR ~~agrees to~~ **shall** implement fire protection ~~measures~~ **systems, equipment and administrative controls** for the construction and operation of the energy project that are acceptable to the local fire district, **other likely responding fire units**, and other land management agencies adjacent to ~~or potentially impacted by~~ the proposed energy project. ~~, if any.~~

~~A preliminary fire prevention and emergency response plan shall be submitted with the CUP application.~~ **A Final Fire Protection and Emergency Response plan (Fire Protection Design Basis Document and Fire Risk Control Program in accordance with NFPA 850, and NFPA 855 is applicable)** shall be submitted with the CUP.

A near-final Fire Protection and Emergency Response Plan shall be approved **in writing** by the **appropriate** fire district ~~or~~ **and** authority having jurisdiction **prior to CUP hearings. A more detailed** fire protection and emergency response plans shall be submitted as **OR if** required during the building permit review process, **and approved in writing by the fire authorities prior to building permit issuance.**

(To be added to Frank Garrett's re-write of above paragraph.)

Require applicant funded first-responder training, specialized equipment, annual drills, response-cost reimbursement for fire, EMS and ambulance services (based on written fire district findings), updated emergency contacts, and site access mapping.

D. FAA and FCC Compliance

~~1. Renewable Energy Generation projects shall comply with applicable Federal Aviation Administration (FAA) lighting, navigation, and other requirements. Lighting shall be the minimum Aircraft Detection Lighting System (ADLS) required by FAA regulations or other public safety considerations. The use of low-intensity, red pulsating or blinking lighting with ADLS is required, so long as consistent with FAA regulations. The use of constant strobe or strobe-type lighting for nighttime use is prohibited unless specifically required by the FAA.~~

1. FAA Compliance

- a.) Renewable Energy Generation projects **and tall facilities (e.g. meteorological towers, wind turbines, powerline poles, construction cranes, etc.)** shall comply with applicable Federal Aviation Administration (FAA) lighting, navigation, **marking** and other requirements, **as potential aviation air obstructions regardless of location.**
- b.) Lighting shall **be comply with** the ~~minimum~~ Aircraft Detection Lighting System (ADLS) required by FAA regulations or other public safety considerations. The use of low-intensity, red pulsating or blinking lighting with ADLS is required, so long as consistent with FAA regulations. The use of constant strobe or strobe-type lighting for nighttime use is prohibited unless specifically required by the FAA.
- c.) **The CUP applicant shall include the FAA's Determination of Hazard/No Hazard to Air Navigation with the application for a conditional use permit. The issuance and expiration dates of the Determination and any Extension shall be clearly noted. If the Determination has been extended, the Extension shall be included to show that the Determination remains valid. Any filings submitted to the FAA by the applicant with respect to changes in turbine locations, ground elevations, turbine heights, lighting/marketing or the addition of new turbines shall be provided to the Apache County Community Development Department within 10 business days of submission to the FAA. The subsequent Determination of Hazard/No Hazard issued by the FAA in response to the changes shall be provided to the County within 10 business days of issuance.**

[Explanation: Splitting the FAA requirements from the FCC requirements just makes good sense, to enable the reader to better follow them, as each one needs further segmentation to cover the different requirements of each. The FAA's Determination of Hazard/No Hazard to Air Navigation is the written "letter" that Apache County needs to be assured that the FAA's detailed project review has been completed and their requirements are included. All tall structures, permanent and temporary, can become air obstruction hazards to aircraft anywhere, not just close to airports, so the FAA requires them to be included in their determination analysis. The County needs to be kept

apprised of final changes in FAA determinations/requirements as the developers usually make adjustments in turbine locations for various reasons.]

2. FCC Compliance

(Refer to the background information compiled by RF Advisor Richard Paquette, ARRL Arizona Section Manager dated 10-5-2026)

Communications Interference; Compliance; Investigation; Remediation; Waivers. ~~The Applicant/Operator shall design, construct, operate, and maintain the Renewable Energy Facility in compliance with all applicable Federal Communications Commission (FCC) rules and regulations (including prohibitions on harmful interference, as defined by the FCC) and any other applicable federal or state authorizations, licenses, or permits governing RF, microwave, broadcast, public safety, and telecommunications systems. Prior to construction, the Applicant shall submit a pre-construction RF/microwave interference study prepared and sealed/signed by a qualified communications engineer and shall provide and maintain a local point-of-contact (name, 24/7 phone, and email) authorized to receive and act on interference complaints. Upon receipt of a written complaint, the CUP holder shall initiate an investigation within ten (10) business days and provide the complainant and the County a written status update. If interference is verified, the CUP holder shall, at its sole cost, implement corrective action sufficient to eliminate the verified interference and restore service to pre-project conditions, including as necessary operational curtailment or cessation, repair or replacement of affected equipment, filtering/shielding, and re-aiming or relocation of antennas or communications equipment, within thirty (30) calendar days of verification unless the Community Development Director grants a written extension for good cause. The County may require independent testing and/or engineering analysis by a qualified third party to confirm the presence, source, and resolution of interference; all reasonable costs shall be paid by the Applicant/Operator. Any person or entity may waive application of this subsection as to a specific receiver, facility, or parcel by executing a written waiver identifying the affected location and scope of waiver and recording the waiver with the County Recorder to provide notice to successors.~~

[Explanations: We suggest a complete re-write of this text, for the following reasons -

SPECIFIC PROBLEMS IDENTIFIED WITH CERTAIN EXISTING DRAFT ORDINANCE LANGUAGE previously proposed by Mr. Fish:

- "...Prior to construction, the Applicant shall submit a pre-construction RF/microwave interference study prepared and sealed/signed by a qualified communications engineer..."

Article 8 Renewable Energy Ordinance **Draft 10 – October 13, 2026**

Changes per P&Z Commission after work session on 9-22-2026

Staff Recommended Edits

Community Recommended Edits: Monica Boehning, Frank Garrett, Linda Weiland, Don Maxwell, Cherry Moyer

[Explanation: The use above of “qualified” needs clarification, per P&Z’s 9/8/26 Work Session. This study is needed with CUP application, not prior to construction. Article 8 Section 802 now has a P&Z-approved definition added for **Communications Impacts Analysis**, which is more thorough than just an RF/microwave beam path study.

“Qualified RF Communications Consultant” is used is our replacement text below, and also needs a definition added to Section 802 – (see suggested definition provided on Monica’s first page for 9/22/26 Special Work Session, in her “Loose Ends from the 8/25/26 Work Session” submitted text.)

- *“...and [the Applicant] shall provide and maintain a local point-of-contact (name, 24/7 phone, and email) authorized to receive and act on interference complaints.*

[Explanation: The company’s local point-of-contact is needed, and should serve the roles stated in our recommended new draft text. By this point in time however, the project is being overseen by a CUP holder, not an “applicant”. The appropriate means for citizen radio users, public safety agencies, and telecom companies/others to report interference complaints is NOT through the wind developer, operations manager or permit-holder, but rather to report issues directly to the FCC’s website established for this purpose. Otherwise, the FCC will not be aware of the problems that RF users are experiencing, and appropriate resolution of the issues is not documented or guaranteed. Risks to public safety communications could result.]

- *“Upon receipt of a written complaint, the CUP holder shall initiate an investigation within ten (10) business days and provide the complainant and the County a written status update.”*

[Explanation: It is up to the FCC, not the CUP permit-holder, to determine if interference is occurring and from what source. By making the above-cited text a requirement in the new Ordinance Article 8, the County would be taking responsibility upon themselves and the project company for liability claims and possible FCC violation penalties. The CUP-holder has no expertise to conduct an investigation, as that is the job of the FCC Enforcement Bureau. The CUP-holder will be required to implement mitigations or corrections as specified by the FCC. The CUP-holder’s responsibility to the County and complainant should be to keep them advised of the situational status.]

- *“...re-aiming or relocation of antennas or communications equipment...”*

[Explanation: It is NOT within the authority of the County or the wind energy facility owner/operator/permit-holder to use this as a mitigation option, because all such communications equipment belongs to private/government owners under license with the FCC. All antennas & RF equipment on Greens Peak, TV Knoll, and Cerro Montosa, Antelope Mtn., others, CANNOT be relocated, as these summits were

intentionally selected as strategic locations for the entire White Mtns. area. Many Millions of \$\$ worth of equipment are mounted there, under Special Use Permits from the US Forest Service (Greens Peak) and the State Land Dept. (TV Knoll, Cerro Montosa, Antelope Mtn.). Nobody can simply pick up these mountains and move all that equipment to a “better” location to suit poorly-sited wind turbines causing communications interference after turbine construction. Many of those fixed antennas are already omni-directional, so “re-aiming” them is not an option. Those which are directional only work strictly in that direction, so must stay that way to serve their intended purpose, and “re-aiming” them is not an option.]

- *“The County may require independent testing and/or engineering analysis by a qualified third party to confirm the presence, source, and resolution of interference; all reasonable costs shall be paid by the Applicant/Operator.”*

[Explanation: This independent testing or analysis needs to be done by the county before CUP approval, to verify the validity of the CUP Applicant’s Communications Impacts Analysis upon the existing RF communications capabilities.]

- *“... Any person or entity may waive application of this subsection as to a specific receiver, facility, or parcel by executing a written waiver identifying the affected location and scope of waiver and recording the waiver with the County Recorder to provide notice to successors.”*

[Explanation: If Apache County permits this as an Ordinance provision, then the County is inviting liability for vital communications needed by critical emergency services to be impacted when needed most at times of public distress. No individual citizen as a private landowner has the right to permit construction of a structure that jeopardizes overall public safety, and the County has no right to permit this either. In fact, doing so likely violates the County’s legal responsibilities under state law to provide for the public health, safety and welfare.]

NEW TEXT EDITS RECOMMENDED:

2. FCC Compliance

- a. The Applicant/Operator shall design, construct, operate, and maintain the Renewable Energy Facility in compliance with all applicable Federal Communications Commission (FCC) rules and regulations (including prohibitions on harmful interference, as defined by the FCC) and any other applicable federal or state authorizations, licenses, or permits governing **radio frequency (RF) voice and data communications**, microwave, broadcast, public safety, and telecommunications systems. **No harmful interference with public communications systems shall be allowed.**

[Explanation: Much of the communications technology using the nation's airwaves today occurs as signals sending digital data in addition to voice messages. The FCC defines "Harmful RF Interference" as follows -

Harmful Interference Definition: Under 47 CFR § 2.1, the FCC defines "harmful interference" as any emission or signal that endangers, degrades or obstructs the functioning of a radio navigation service or other safety services, or repeatedly interrupts an authorized radio communication service. *Perhaps this definition should be added to Article 8 Section 802?*

- b.** ~~Prior to construction,~~ **With the CUP Application,** the Applicant shall submit a **comprehensive** pre-construction ~~RF/microwave interference study~~ **Communications Impacts Analysis (defined in Section 802), coordinated with all existing RF communications parties that may be affected, prepared and sealed certified/signed by a Qualified RF Communications Consultant as defined in Section 802.**
- c.** **At the Applicant's expense, the County may require independent analysis by a third-party Qualified RF Communications Consultant to confirm, clarify, or correct the methodology, findings, conclusions, and mitigations documented in the Applicant's submitted Communications Impact Analysis. The third-party consultant's written report will be used to inform the Planning and Zoning Commission, public, emergency services agencies, and the Board of Supervisors before CUP decision.**
- d.** ~~Prior to construction, the Applicant~~ **CUP holder shall, at its sole cost,** maintain and provide the County Community Development Department a **current** local point-of-contact (name, 24/7 phone, and email) authorized to receive and act on interference complaints **from any party. The CUP holder's point-of-contact shall promptly document all details of complaints and within two (2) calendar days provide complainants with the current FCC contact information to report their concern directly to the FCC website's "RF Service Interference Complaint Portal" or other appropriate FCC access); then shall also promptly notify the County's Community Development Director of the complaint.**
- e.** **Upon notification by the FCC of their interference investigation, the CUP holder's designated local point-of-contact shall cooperate fully with FCC personnel to help verify source(s) of the possible interference; and shall**

keep the County Community Development Director and the complainant promptly notified of the investigation status.

- f. If project-related interference is verified, within ten (10) calendar days of verification date the CUP holder shall, at its sole cost, implement and complete the FCC's required corrective action sufficient to eliminate the verified interference, and restore service to pre-project conditions. As necessary, such** corrective action may include but is not limited to operational curtailment or cessation, repair or replacement of ~~affected equipment~~ **the offending project facilities or components; and/or repair or replacement of the affected RF equipment to the owner's FCC-approved specifications. If pre-approved in writing by the FCC, the Community Development Director may grant a written time extension for good cause, for all corrective action to be completed.**

F. Design and Appearance

Towers, generator housings, hubs, blades, and solar panel stands shall be painted a non-reflective, unobtrusive color that complements the surrounding landscape, including but not limited to white, off-white, beige, or tan.

The design of other buildings and structures shall, to the extent ~~reasonably~~ feasible and consistent with public safety, use materials, colors, textures, screening, and landscaping that blend the facility into the existing environment.

Anti-reflective coatings. Exterior surfaces of wind turbines, solar collectors and related equipment will have a non-reflective finish and be designed and installed to limit glare to a degree that no after-image will occur as seen from vehicular traffic or any adjacent building.

Wind Turbine Blade Clearance. Wind turbine blades will be designed so that the closest point of the sweep of the blade is at least 30 feet above finished grade.

Solar panels, and wind turbines, and accessory and support buildings and other structures shall be designed and constructed to minimize glare at occupied structures, recreation areas, roads, highways or airport flight landing or takeoff areas.

To the greatest extent feasible the renewable energy facility shall:

- Use wind turbines and towers of uniform design and color. The turbine color shall be a neutral color that blends with the environment and complies with FAA standards.
- Be screened by natural vegetation, topography, or other means to minimize adverse visual impacts on neighboring properties.
- Utilize exterior light fixtures that are shielded, on timers and comply with Section __, Lighting. In addition, the renewable energy facility shall use the minimum lighting necessary for building safety and security purposes.
- Utilize an FAA-approved radar-activation system for aviation-warning lights when aviation-warning lights are required on wind turbines and meteorological towers by federal or state law.
- Use existing substations, or if new substations are needed, minimize the number and visual impact of the substations.

G. Wildlife Protection

Guy wires for meteorological towers, transmission lines and power poles shall only be used if necessary and shall contain bird diverters as recommended by Arizona Game and Fish Department or other appropriate state and federal natural resource management agencies.

Above-ground power lines shall comply with the Avian Power Line Interaction Committee standards to prevent avian fatalities.

Turbines and solar panels shall be designed so as not to attract nesting birds or serve as perches for raptors. The ~~CUP holder~~ **applicant** shall refer to the Arizona Game and Fish Department and U.S. Fish and Wildlife Service ~~wind~~ guidelines that have been developed to aid project proponents in reducing impacts to wildlife.

The applicant shall consult with the Arizona Game and Fish Department and other applicable agencies regarding potential wildlife impacts. Written comments from these agencies ~~may~~ **shall be requested by Apache County prior to scheduling** ~~be submitted as part of~~ the CUP application. ~~for a hearing before the Planning and Zoning Commission.~~

Pre-construction and post-construction wildlife studies, if required, shall be developed and performed in accordance with Arizona Game and Fish Department or U.S. Fish and Wildlife Service guidelines, **and coordinated with, and subject to the approval of**

the applicable wildlife agency, with copies mailed to the Community Development Department.

Any wildlife impacts discovered during post-construction surveys shall be identified in the formal annual report submitted to the Arizona Game and Fish Department and U.S. Fish and Wildlife Service, with a copy to the Community Development Department. The formal annual report shall include avian, bat and wildlife deaths due to the project.

If the project is located within a Wildlife Linkages Area (as identified by the Apache and Navajo County Wildlife Connectivity Assessment, Arizona's Wildlife Linkages, or by the Arizona Game and Fish Department), passage for those species that use the Wildlife Linkages shall be maintained subject to the approval of the AGFD.

Security fencing will be designed according to AGFD's Wildlife Compatible Fencing Guidelines" and shall be permeable. Proposed fencing shall be designed to minimize visual impacts from and be complimentary with scenic corridors and adjacent properties, and to minimize impacts to wildlife and Wildlife Linkages. Security fencing shall be permeable to small animals by leaving a six-inch gap between the bottom of the fence and the ground, exclusive of substation facilities. When feasible, fencing shall be designed around groups or clusters of equipment, as opposed to fencing the entire site. New fencing shall not impact or impede existing easements to private, State or public lands.

Project fencing shall include minimum 18-inch by 18-inch signs warning of the presence of high voltage. Such signs shall be located a maximum of 300 feet apart and at all points of site ingress and egress. Projects without fencing shall place such warning signs on each transformer building and all points of ingress and egress. Project fencing, if applicable, shall be a minimum of six feet and maximum of eight feet in height (excluding barbed wire or cyclone wire fencing, which is permissible).

H. Permits and Agency Coordination

Question: Regarding building permits issued by the Apache County Community Development Department:

- Is there a reference design for tower/turbine foundations?
- If so, what ranges of slope and soil characteristics does it cover?

Article 8 Renewable Energy Ordinance **Draft 10 – October 13, 2026**

Changes per P&Z Commission after work session on 9-22-2026

Staff Recommended Edits

Community Recommended Edits: Monica Boehning, Frank Garrett, Linda Weiland, Don Maxwell, Cherry Moyer

- If some foundations won't be covered by standard designs, then will each foundation need a geotechnical soil sampling and an individual design? Will each foundation design be stamped by an Arizona registered professional engineer?
- How will the Apache County Building Safety Department evaluate individual foundation designs in order to issue building permits?
- Would this be a task for a 3rd-party consultant?

All required federal, state, and local permits applicable to the project shall be obtained prior to construction as required by the issuing agencies. The CUP holder is required to coordinate with federal, state, and local agencies, including but not limited to **the Community Development Department, Apache-ANRCD, ADOT, ADEQ**, and local fire and EMS departments, for review of operations for the life of the CUP.

To ensure the structural integrity of the renewable energy facility, the owner shall ensure that it is designed and maintained in compliance with standards contained in applicable local, state, and federal building codes and regulations.

All Renewable Energy Systems shall be designed and constructed, to the greatest extent feasible, to prevent interior and exterior access by the public and shall include interior ladders and locking doors. All renewable energy equipment installed at the facility shall be commercially manufactured and certified for utility-scale use under applicable industry standards and building codes. For construction and permitting purposes, all wind turbines and solar panels shall conform to the regulations for the applicable seismic zone of the adopted building code.

Documentation confirming an interconnection agreement ~~or~~ **and** a power purchase agreement, or equivalent agreements, shall be required prior to issuance of any building or construction permits. All necessary building, grading, and other permits shall be obtained from the Apache County Community Development Department prior to any site preparation or construction. No building or structure may be constructed or occupied prior to full compliance with all applicable Community Development Department requirements, including **but not limited to** grading, drainage plans, flood control requirements, and issuance of building and other permits. Floodplain Use Permits, where required, for development in a floodplain shall be obtained through the Flood Control District prior to **development building permit approval**.

I. Signs

Signs associated with the project are limited to one project identification, information, interpretive, and address sign not exceeding 24 square feet at each point of ingress and egress. No other signs shall be installed except required warning and directional signs. Limited logos or manufacturer names are permitted on generator housings or hubs. No other advertisements or prominent logos or messages are allowed. All sign

requirements are found in Apache County **Zoning** Ordinance Article 7. All sign permits shall be included in CUP approval and shall not require a separate sign permit under Article 7.

J. Noxious Weeds, Materials, and Site Management

Prevention-Minimization of Unnecessary Site Damage Prior To, During, After Construction

1. Prior to geotechnical test hole drilling the Applicant's geologist and engineer shall consult all available existing site-specific geological surveys and soil survey information already available. All forms of destructive sampling shall be kept to a minimum and restored promptly.
2. All test holes dug/drilled for soils and/or geotechnical studies or for construction, which are abandoned as non-suitable sites, shall be promptly filled (within 15 calendar days) with the same native materials that were extracted, placing rock below with soil on top.
3. State-Protected native vegetation removed for construction shall be salvaged or relocated according to Arizona Native Plant Law, in ~~coordination~~ **consultation** **coordination** with the Apache Natural Resources Conservation District (ANRCD) ~~as determined by Apache County~~ **subject to the approval of Apache County.**
4. Non-State-Protected trees/shrubs removed for construction shall be disposed of at the discretion of the landowner. On State- or County-owned lands, they shall be responsibly disposed of or lopped and scattered across barren soil where needed for topsoil retention or offered to community civic-charitable organizations as donated firewood. In all cases, ~~coordination~~ **consultation** with the ANRCD, and ~~or~~ the local fire district/department, **is required as determined by Apache County. subject to the approval of Apache County.**
5. Non-State-Protected, non-noxious herbaceous vegetation removed for construction shall be offered to nearby landowners or ranchers, or spread across barren soil, or burned in a responsible manner. ~~Coordination~~ **consultation** **Coordination** with the ANRCD, and ~~or~~ the local fire district ~~department~~, **is required as determined by Apache County.** Noxious-invasive plant species shall be promptly disposed of according to the **project-specific** Noxious-Invasive Weed Prevention and Control Plan developed in ~~coordination~~ **consultation** **coordination** with the ANRCD, and ~~or~~ the local fire district/department, **is required. as determined by Apache County. subject to the approval of Apache County.**
6. A site-appropriate Noxious-Invasive Weed Prevention and Control Plan for project construction, operations, and decommissioning-restoration shall be prepared in

~~coordination~~ ~~consultation~~ **coordination** with the ANRCD ~~and as determined by Apache County~~ **subject to the approval of Apache County** shall be included with the CUP **Conditions of Approval**. The following options will be permitted – They may be:

- Used to reshape certain portions of the project site terrain, if needed and approved.
- Donated to the County or local municipalities or businesses that can use them.
- Stored or used on private lands by written agreement.
- Crushed and used for new road surfacing or for concrete foundation mixtures, **subject to approval by the County Engineering and Building Departments.**

[**Explanations:** Per Daric Knight and his Board, language here pertaining to ANRCD in each case must NOT say “consultation”, but instead needs to say “coordination”. Each bullet in this section J is changed to numbers rather than letters, for sake of correct formatting.]

7. Non-vegetative native materials (rock, cinders, soils) removed or displaced by pre- or post-construction excavation shall not be stockpiled on-site for more than 6 months, unless included in CUP approval. The following options will be permitted - They may be:
- Used to reshape certain portions of the project site terrain, if needed and approved.
 - Donated to the County or local municipalities or businesses that can use them.
 - Stored or used on private lands by written agreement.
 - Crushed and used for new road surfacing or for concrete foundation mixtures **subject to the approval of the County Engineering and Building Departments.**

K. Operations and Cleanup

Operations

The renewable energy facility shall be maintained in operational condition at all times, subject to reasonable maintenance and repair outages. Operational condition includes meeting all noise requirements and other permit conditions and requirements of this Article and all provisions of the Apache County Zoning Ordinance.

The renewable energy facility shall be maintained in operational condition at all times, subject to reasonable maintenance and repair outages. Operational condition includes meeting all requirements and Permit Conditions of Approval, and other requirements of this Article and all provisions of the Apache County Zoning Ordinance. All components shall be repaired or replaced with like-kind materials when either nonfunctional or in visible disrepair.

Should any part of the renewable energy facility be damaged, or should the facility violate a permit condition, the owner or operator shall cure any deficiency within 90 days after written notice from the County, unless specified differently elsewhere in this Article. If any renewable energy facility or component remains non-functional or inoperative for a period of one year, the CUP holder and/or its successors or assigns, without any further action by the County, shall remove said facility or component and restore the site at its own expense, subject to the provisions of the Decommissioning Plan.

[Explanation: 90 days to cure deficiencies stated here may conflict with other time requirements elsewhere in this Article. For one example, in the case of an FCC timeframe to correct project-caused emergency communications interference, 90 days would likely be too long to risk allowing needed corrections to be made for public safety.]

[NOTE: Some added text is likely needed here for Biomass plant operations, Site Maintenance, and others, but time is not permitting to address it in the 10-13-26 Work Session. Suggestions will be provided prior to the 10-27-26 Work Session. Any other proposed text on vegetation management during project operations needs Daric Knight's ANRCD review and comment first.]

Site maintenance.

- a. Native grasses or other native vegetation as approved by ANRCD shall be used to stabilize the site for the duration of the facility's use.**
- b. Weed control or mowing shall be performed routinely. Failure to maintain the site may result in revocation of the use permit and the facility's decommissioning.**
- ~~c. Anti-reflective coatings. Exterior surfaces of wind turbines, solar collectors and related equipment shall have a nonreflective finish and shall be designed and installed to limit glare to a degree that no after image would occur as seen from vehicular traffic or any adjacent building.~~**

Explanatory Note: delete the word adjacent. Glare should be limited with no after-image occurring from any building with sight lines to wind turbines and solar panels.

Repair of components. All components shall be repaired or replaced when either nonfunctional or in visible disrepair.

Should any part of the renewable energy facility be damaged, or should the facility violate a permit condition, the owner or operator shall cure any deficiency within 90 days after written notice from the County, unless specified differently elsewhere in this Article.

If any renewable energy facility or component remains non-functional or inoperative for a period of one year, the applicant and/or its successors or assigns, without any further action by the County, shall remove said facility or component and restore the site at its own expense, subject to the provisions of the Decommissioning Plan.

Cleanup.

If project components or materials must be replaced during construction or operations ~~due to manufacturing flaws, maintenance issues, weather extremes, accidents, or unforeseen events, including but not limited to turbine blade throw, tower collapse, cracked solar panels, battery leaks, oil spills, or similar incidents,~~ such materials shall be completely removed and disposed of in accordance with decommissioning and site restoration requirements in Section 811 of this Article.

All such cleanup and removal activities shall be promptly reported to Apache County with notice provided to ANRCD for informational purposes. Cleanup will commence within thirty (30) calendar days **at the CUP holder's expense**. ~~The CUP holder may ask for a longer time period in writing as necessary to accommodate site conditions and reasonable scheduling needs, at the CUP holder's expense.~~

[NOTE: Other edits to Sections 804 and 805 will be provided as the P&Z progresses on future Work Sessions. There's no point in providing edits in advance before the P&Z can likely review and process the information.]

Other Issues to Address

Third Party Review. Apache County reserves the right to contract with a qualified third-party consultant for the review and evaluation of the proposed project and any of the application materials. The selection of a consultant shall be made in consultation with the applicant, with a mutually agreed-upon "not to exceed" contract amount prior to final selection of the consultant. The cost for any such review shall be reimbursed to Apache County by the applicant before any building permit is issued. Additionally, and if deemed necessary, the reasonable cost for any third-party review(s) of any long-term monitoring or response to complaints or operational changes shall be reimbursed to Apache County by the

CUP holder within 30 days after written demand by the County. In such cases Apache County shall provide written notice of the use of a third-party consultant to the applicant prior to such use.

The County may obtain reviews, inspections or other work completed by a third party for the purpose of review or monitoring of the facility, the costs of which shall be required to be reimbursed by the Facility owner or operator. Examples of such work include, but are not limited to reviews and associated inspections of the Wildlife Protection Plan, stormwater quantity and quality plans, the Decommissioning Plan, and compliance reports.

~~Wind Turbine Blade Clearance. Wind turbine blades shall be designed so that the closest point of the sweep of the blade is at least 30 feet above finished grade.~~

Shadow Flicker. Shadow Flicker from turbines shall not impact adjacent Non-participating properties or public rights of way by more than 30 hours per year, as shown by a Shadow Flicker evaluation prepared by a qualified expert. Waivers or exceptions to Shadow Flicker impact may be approved by the Planning and Zoning Commission when the applicant demonstrates a significant or substantive need.

Air Quality Impacts for Biomass Energy Installations. Biomass Energy Installations shall obtain an air quality permit from the Arizona Department of Environmental Quality and adhere to all applicable Federal and State rules and regulations.

Visual Impact. Projects shall be designed to minimize visual impact by:

- Placing all collection lines within the installation underground, including connections to a substation, to the greatest extent practical. Waivers or exceptions may be approved when the applicant demonstrates a significant or substantive need for above ground connections.
- Mitigating visual impacts from transmission lines connecting substations to the utility grid to the greatest extent practical.
- Designing and locating Utility Scale Renewable Energy Facilities in a manner to minimize adverse visual impacts.

Stormwater Runoff and Erosion Control

Renewable energy projects shall comply with local, state and federal requirements including but not limited to the Clean Water Act and Arizona Pollution Discharge Elimination System (AZPDES). Due to the size of these

projects and amount of land disturbance, an engineered Stormwater Pollution Prevention Plan (SWPPP) will be required to ensure effective control of dust, stormwater, soil erosion and sedimentation during construction, operation, decommissioning, removal and site restoration.

A preliminary Stormwater Runoff and Erosion Control plan, Dust and Erosion Control plan shall be submitted with the CUP application that proposes:

- Measures to control dust, stormwater runoff, erosion and sedimentation, including but not limited to, from access roads, laydown areas, stockpiles and all disturbed areas.
- Minimizing grading and vegetation removal.
- Maintaining and restoring natural drainage patterns.
- Heavy-duty Best Management Practices and structures such as retention basins, phased grading, and swales combined with perennial vegetative ground cover to capture runoff and filter out sediment and pollutants at the source during construction, and for the life of the project.
- Owner or operator shall conduct inspections of all stormwater plan components at least every 14 days, and within 24 hours after precipitation events of 0.5 inch or more, to ensure that components are working properly and any needed maintenance and repairs shall be completed in a timely manner to avoid catastrophic failure.

The preliminary Stormwater, Dust and Erosion Control Plan shall be reviewed by ANRCD and approved with the CUP. Final engineered SWPPP shall be approved by ADEQ, with a copy to the Community Development Department prior to issuance of building permits.

A copy of the approved SWPPP and all related documents shall be maintained by the CUP holder onsite for the life of the project.

New subsection in 804 or new section to follow section 805 Noise Requirements and Mitigation Measures

Protection of Visual Resources and Private Property Rights

The applicant shall identify impacts to visual resources. Apache County shall assess the completeness of the applicant's analysis of visual resource impacts and, when taking action on the application per Zoning Ordinance section 1107 E and F, shall:

- **Consider the private property rights of owners proposing projects that cause adverse visual impacts**
- **Consider the private property rights of owners who would experience adverse visual impacts**
- **Weigh the benefits to the applicant against the adverse impact to others, considering the severity of the impacts and the number of properties to be affected**
- **Enforce existing requirements in the Apache County Zoning ordinances and policies in the Apache County Comprehensive Plan and Community Plans relating to visual resources**

Explanatory Notes:

- 4.A At the 8/5/2026 meeting, the Commissioners asked Matt Fish how to make the Preferred Areas mandatory, and Fish said he would ask legal. What is the status of this task?
- 4.B Regarding the choice of the term, visual resources, there are multiple terms used in the Apache County ordinances and the Apache County Comprehensive plan, so this is drafted using the term visual resources, but verbiage alternatives/additions include: scenic resources, adverse visual impact, scenic qualities, etc.
- 4.C Apache County “visual resources” references:
- Apache County Renewable Energy Ordinance
 - 803.A.3, Distance from Population Centers
 - 803.A.4, Compatible with Existing Land Uses
 - Apache County Planning and Zoning Ordinance
 - Section 1107.B.1: The proposed use will be harmonious and in accordance with the general and specific objectives of the Apache County Comprehensive Plan and any subarea plans.
 - Section 1107.B.2: The proposed use will be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity.
 - Apache County Comprehensive Plan
 - Goal 6 is to improve the overall appearance of the County and associated Policy 6-A is to maintain natural scenic qualities of the County by ... encouraging protection of scenic vistas.
 - The Alpine Community Plan (incorporated into the Apache County Comprehensive Plan)

- The goal of the Alpine community plan is to direct the orderly, sensitive growth of the area while protecting its natural beauty, rural character and the existing quality of the mountain area environment.
 - The views and openness are a significant part of the area's quality of life. Because of its especially important visual qualities, development throughout Alpine area should be designed to complement the landscape, not degrade it.
- The Greer Community Plan (incorporated into the Apache County Comprehensive Plan), section 4b, Community Vision
 - "The character of the community is a mixture of open mountain forest and meadowland, natural rivers and streams, which flow year round, homes on one-acre lots, small commercial enterprises and widely disbursed minor destination resorts. Residents and property owners perceive the Greer area as a very special place that must not be sacrificed in terms of visual image, scenic quality, character, and stability of environmental resources. These qualities attract visitors, tourists and investment, and their preservation is therefore in the long term economic best interest of Apache County. 3 All the current conditions and perceptions lead to the primary goal of CHARACTER MAINTENANCE."
- The Nutrioso Community Plan (incorporated into the Apache County Comprehensive Plan)
 - A tax base analysis in Nutrioso shows that the vast majority of its taxable assets lie in homes that have been carefully located and designed to maximize the owners' enjoyment of the local scenic beauty. The economic future of Nutrioso depends on the preservation of this most valuable asset: the scenic beauty of the area. We believe that the future involves preserving the rural atmosphere and lifestyle by encouraging only non-intrusive, service and home-based businesses.
- The Vernon Area Community Plan (incorporated into the Apache County Comprehensive Plan)
 - Clearly prioritizes open space, visual appearance, nominal impacts on existing residential properties, and preservation of dark skies. As for commercial development, it is to be tailored for the benefit and convenience of local residents, with possible employment opportunities. Commercial service should fill a demonstrated need, and commercial property should be harmonious with the area's natural surroundings.

Section 805. Noise Requirements and Mitigation Measures

A. Pre-Construction Sound Study

~~Prior to issuance of a Conditional Use Permit (CUP),~~ the applicant shall submit a sound study prepared by an independent qualified acoustical consultant **as part of the CUP application.**

The study shall:

- determine existing background sound levels at ~~representative~~ **sensitive** receptor locations, including nearby residences, schools, libraries, or hospitals;
- identify the major noise-producing components of the proposed facility, including **but not limited to** wind turbines, ~~solar~~ inverters, transformers, substations, **battery energy storage systems**, cooling equipment, **transmission or gen-tie lines**, and other ~~mechanical~~ equipment; ~~and~~
- **forecast anticipated sound levels during operation including cumulative impact of multiple turbines, effects of facility aging and planned or probable modifications, and**
- demonstrate that the proposed renewable energy facility will comply with the sound limits established in this section.

Background sound levels shall be determined using generally accepted acoustical measurement standards and practices.

B. Operational Noise Limits

Noise from ~~wind turbines, solar equipment, substations, transformers, cooling systems, and other mechanical~~ equipment associated with a Renewable Energy Generation Facility shall not exceed the following limits ~~at the exterior of any structure existing at the time of CUP approval~~ **as measured at the project property line.**

1. Non-Participating Parcels

Noise shall not exceed ~~50~~ **45** dBA LAeq (10-minute average) or five (5) dB above the measured background sound level (LA90), whichever is greater. ~~at any non-participating occupied residence, school, library, or hospital.~~

EXPLANATION: 45 Decibels is used in Navajo County Ordinance. It seems a workable compromise from the 40 decibel recommendations for daytime residential receptors recommended by ANSI, and should be OK if measured at the property line. It would be ideal to have a lower decibel limit during night time hours to avoid sleep disturbance for rural residents used to sleeping in very quiet baseline sound level conditions with windows open.

2. Participating Parcels

Noise shall not exceed 55 dBA LAeq (10-minute average) at any participating ~~occupied residence~~ **property, provided the following has been provided: An irrevocable written consent (or sound waiver easement) has been obtained from each property owner, stating the owner is aware of the proposed facility and the sound limitations imposed by this section, that consent is granted to allow sound levels to exceed the maximum limits specified herein, and that such consent will be memorialized in a notice recorded with the Apache County Recorder to notify future owners of the affected property. A copy of such consent on which the permit holder relies shall be submitted prior to approval of the CUP.**

EXPLANATION: Waiver language based on Navajo County Ordinance.

C. Measurement Standards and Verification

Noise measurements used to demonstrate compliance with this section shall be conducted using calibrated sound measurement equipment and in accordance with generally accepted acoustical measurement standards.

After the project is constructed and is in operation, the permit holder's independent qualified acoustical consultant shall complete a compliance evaluation and report to be submitted to the Community Development Director. Post-construction noise levels shall comply with the noise levels established in this Section, or the evaluation report will include modifications needed to bring the project into compliance. Any recommendations will be completed within 60 days.

Apache County may require **additional** post-construction sound measurements if noise complaints are received or if the County determines that verification of compliance is necessary.

EXPLANATION: Post-construction compliance inspection adapted from Navajo County Ordinance.

D. Waivers

The Board of Supervisors may approve a waiver of the sound limits established in this section where affected property owners provide written consent acknowledging the anticipated sound levels, **and the following has been accomplished: An irrevocable written consent (or sound waiver easement) has been obtained from each property owner, stating the owner is aware of the proposed facility and the sound**

limitations imposed by this section, that consent is granted to allow sound levels to exceed the maximum limits specified herein, and that such consent will be memorialized in a notice recorded with the Apache County Recorder to notify future owners of the affected property. A copy of such consent on which the permit holder relies shall be submitted prior to approval of the CUP.

~~Any waiver shall be recorded with the Apache County Recorder to provide notice to future property owners. Any such~~ **Each sound** waiver **consent or sound waiver easement** shall be provided to Apache County Community Development prior to issuance of any building permit.

E. Construction Noise

Construction activities associated with Renewable Energy Generation Facilities shall be limited to the hours of 7:00 a.m. to 7:00 p.m. Activities generating significant noise shall not occur on Sundays or federal holidays unless necessary for safety, emergency repairs, or **weather-related emergencies and** ~~continuous construction operations~~ approved **in writing** by the ~~County~~. ~~The~~ Community Development Director ~~may approve limited deviations from these hours when necessary for safety, weather conditions, or continuous construction operations.~~

EXPLANATION: I would like an explanation of what “Continuous construction operations” means and why that would be eligible for a waiver. ALSO, since construction periods for renewable facilities are estimated by the current applicants at two years per phase, it would seem reasonable to limit construction activity to **Monday-Friday**, to allow neighbors to get a break from construction noise at least on the weekends to enjoy time outdoors with friends and family.

Linda Weiland's Proposed Ordinance Re-organization

Section 801: Introduction and Purpose

Section 802: Definitions

Section 803: Zones in Which Allowed / Preferred Criteria

Section 804. Public Outreach and Citizen Review Process (810)

As part of the Conditional Use Permit (CUP) review and approval process, and to ensure adequate public outreach, the applicant shall complete the following requirements in addition to the requirements of Zoning Ordinance Article 1106. The following are required:

1. Instead of a Neighborhood Meeting, Public **Information** Meetings are required.
Public Information Meetings – the applicant shall schedule, publicize, and conduct at least **two (2)** public information meetings in the project area, The meetings shall be held **within Apache County located at the proposed project area site or at a locations reasonably accessible to residents located near the proposed project area.** The applicant shall make reasonable efforts to coordinate with **local community organizations, neighborhood groups, or property owner associations where available.** Public meetings shall comply with the public outreach requirements of **Article 11 of the Apache County Zoning Ordinance.** ~~The applicant shall provide the Community Development Department with a summary of the public meetings, including meeting dates, locations, attendance estimates, and a general description of comments or concerns raised by attendees and will be submitted with the applicants completed CUP application.~~ **The Public Meeting requirement shall not be waived.**
2. **Notification Area**
 - A. Property Owner Notification**
 1. A list of all property owners of record within one (1) mile of the project boundary, including the current mailing address of each owner.

2. A list of all property owners of record within a minimum of three hundred (300) feet of each access route to the project from a public roadway, as well as within three hundred (300) feet of each public roadway requiring improvements in connection with the project, including current mailing address information.
3. Notice by first-class mail to all property owners listed under subsections (1) and (2), which shall include:
 - o A narrative description of the proposed project;
 - o Identification of transportation and access routes;
 - o A vicinity map showing surrounding properties; and
 - o A layout of the proposed facility and accessory buildings, including setback distances to property lines.

B. Community and Agency Notification. Notice by first-class mail to all incorporated and unincorporated community officials ~~within three (3) miles of the project boundary.~~ **that could potentially be effected by the proposed project.**

- Municipalities and Towns
- County Government Officials
- Community Development or Planning Departments
- Local Fire Districts and Emergency Service Providers
- Tribal Governments
- Other Local Jurisdictions Potentially Affected by the Project

The head of any property owners' association within the notification area

Other potentially affected property owners outside the legal notice area as determined by the Community Development Department

Other interested parties who have requested that they be placed on a list of interested parties maintained by the Community Development Department. (1106 B 3 b-d)

Notice shall be mailed to the **appropriate administrative office or designated official for each jurisdiction or agency.** Notice may also be provided electronically when an agency has published an official email address for public notice.

C. A copy of the Citizen Participation Plan (1106 B) along with the Citizen Participation Reports (1106 C) shall be submitted as part of the CUP application.

Section 805 - Conditional Use Permit Application Process and Fees

A. A Conditional Use Permit per Zoning Ordinance Article 1107 is required. The following requirements are in addition to Article 1107 requirements, unless specified otherwise herein. Additional requirements include:

1. Pre-application Meeting is required. The applicant shall participate in a mandatory pre-application meeting with Apache County Community Development staff prior to submission of a Conditional Use Permit (CUP) application. The purpose of the meeting is to review the CUP process, review the Pre-Submittal Checklist, identify potential issues early in the process, and clarify the information required for a complete application.

Apache County may invite representatives from relevant agencies, including but not limited to local fire districts, the Arizona Game and Fish Department, the Arizona Department of Transportation, the Apache Natural Resource Conservation District (ANRCD), and other applicable agencies.

2. Detailed submission requirements are contained in Appendix A – Pre-Application Meeting Checklist.

B. The Conditional Use Permit application requirements, general standards and evaluation criteria in Zoning Ordinance Article 1107 apply. The following are in addition to 1107:

1. Notification Area for the CUP is the same as the notification area for the Citizen Review Process in Article 804. (1107 C 4)

2. An Overall site plan is required. The Overall site plan shall show the entire project, entire project boundaries including parcel numbers within and surrounding the project area within ???feet/miles and location of all turbines, solar panels, project phases and all proposed structures and major project features including but not limited to existing and proposed roads, turbines, solar arrays, battery storage, storage yards and laydown yards, biomass feedstock storage areas, batch plants, rv parking, and property lines on one 8 1/2x11 page.
[At least 24 x 36 for clarity, there is a lot of information being provided]

3. Scale for the Site Plan shall be suitable to clearly see all site plan requirements, multiple site plan map layers are acceptable, as needed to ensure map legibility.

4. Due to the size and complexity, reports required will be subject to independent 3rd party review to determine project completeness, report adequacy and accuracy, and review ongoing monitoring if needed.

5. The developer shall repay the County the cost of 3rd party review prior to setting the application for Planning Commission hearings. Ongoing 3rd party review shall be paid in full within 30 days of the County invoice.

6. The Impact Statement (1107 C 8) shall distinguish estimated impacts during construction period, operation period, and decommissioning period.

7. Due to the size and complexity of utility-scale renewable energy projects, the time frame in 1107 E is not applicable.

8. Every CUP for a Utility Scale Renewable Energy Project shall require at least one public hearing by the P&Z Commission, and at least one public hearing by the Board of Supervisors. [Appeals process]

9. 1107 J and K do not apply to Utility Scale Renewable Energy Projects. After CUP approval, repowering or substantial modifications as defined herein shall require a new CUP.

10. Detailed application requirements are contained in Appendix B – CUP Application Checklist.

C. No project will advance to Planning and Zoning Commission review or consideration until it is complete relative to all minimum requirements in this Article, the minimum requirements of Article 1106 and 1107, and the requirements of the CUP application form.

Section 806. Performance Standards

The following minimum standards are established to protect the health, safety, convenience and public welfare of Apache County residents.

A. Roads and Access

The applicant shall construct only the minimum number of on-site access roads necessary for construction, operation, and maintenance of the renewable energy facility.

Temporary access roads and excess roadway widths used during construction shall be reclaimed and re-vegetated with native species, to the extent reasonably feasible, following completion of construction.

All permanent roads shall be built to the minimum County requirements.

B. Electrical Infrastructure

Electrical collector lines, which connect electricity generation devices to any substations, shall be placed underground, except where **a waiver for** above-ground placement is approved by the County due to engineering, safety, or environmental constraints.

C. Fire Protection and Emergency Response

Renewable Energy Generation projects shall include fire control and prevention measures as outlined in the Uniform Fire Code and as required by the local Fire District or State Fire Marshal.

The applicant agrees to implement fire protection measures for the construction and operation of the energy project that are acceptable to the local fire district and other land management agencies adjacent to the proposed energy project, if any.

Final fire protection plans shall be approved by the applicable fire district or authority having jurisdiction prior to issuance of building permits. **Detailed fire protection and emergency response plans shall be submitted and approved as required during the building permit review process.**

OR: For power generation projects, the applicant must have an approved fire prevention and protection plan in place with the [county/city] or local fire protection district during construction and operation. A copy of the approval shall be included with the CUP application (existing 442 B 5)

D. FAA and FCC Compliance

1. Renewable Energy Generation projects shall comply with applicable Federal Aviation Administration (FAA) lighting, navigation, and other requirements.
2. Lighting shall be the minimum Aircraft Detection Lighting System (ADLS) required by FAA regulations or other public safety considerations. The use of low-intensity, red pulsating or blinking lighting with ADLS is required, so long as consistent with FAA regulations.
3. The use of constant strobe or strobe-type lighting for nighttime use is prohibited unless specifically required by the FAA.
4. **Communications Interference**; Compliance; Investigation; Remediation; Waivers. The Applicant/Operator shall design, construct, operate, and maintain the Renewable Energy Facility in compliance with all applicable Federal Communications Commission (FCC) rules and regulations (including prohibitions on harmful interference, as defined by the FCC) and any other applicable federal or state authorizations, licenses, or permits governing RF, microwave, broadcast, public safety, and telecommunications systems. Prior to construction, the Applicant

shall submit a pre-construction RF/microwave interference study prepared and sealed/signed by a qualified communications engineer and

5. Applicant shall provide and maintain a local point-of-contact (name, 24/7 phone, and email) authorized to receive and act on interference complaints.
6. Upon receipt of a written complaint, the CUP holder shall initiate an investigation within ten (10) business days and provide the complainant and the County a written status update. If interference is verified, the CUP holder shall, at its sole cost, implement corrective action sufficient to eliminate the verified interference and restore service to pre-project conditions, including as necessary operational curtailment or cessation, repair or replacement of affected equipment, filtering/shielding, and re-aiming or relocation of antennas or communications equipment, within thirty (30) calendar days of verification **unless the Community Development Director grants a written extension for good cause.**
7. The County may require independent testing and/or engineering analysis by a qualified third party to confirm the presence, source, and resolution of interference; all reasonable costs shall be paid by the Applicant/Operator.
8. Any person or entity may waive application of this subsection as to a specific receiver, facility, or parcel by executing a written waiver identifying the affected location and scope of waiver and recording the waiver with the County Recorder to provide notice to successors.

E. Airports

All wind energy systems proposed to be located within four (4) miles of the nearest runway of the nearest airport shall comply with all requirements imposed by the Federal Aviation Administration (FAA). The applicant shall provide a written statement from the FAA setting forth the FAA's comments, prohibitions, and requirements, if any, for the proposed project.

F. Design and Appearance

1. Towers, generator housings, hubs, blades, and solar panel stands shall be painted a non-reflective, unobtrusive color that complements the surrounding landscape, including but not limited to white, off-white, beige, or tan.
2. The design of other buildings and structures shall, to the extent reasonably feasible and consistent with public safety, use materials, colors, textures, screening, and landscaping that blend the facility into the existing environment.

G. Wildlife Protection

1. Turbines and solar panels shall be designed so as not to attract nesting birds or serve as perches for raptors
2. The CUP holder shall refer to the Arizona Game and Fish Department and U.S. Fish and Wildlife Service wind guidelines that have been developed to aid project proponents in reducing impacts to wildlife.
3. Pre-construction and post-construction wildlife studies, if required, shall be developed and performed in accordance with Arizona Game and Fish Department or U.S. Fish and Wildlife Service guidelines.

4. **OR: A letter from the Arizona Game and Fish Department will be required prior to scheduling of the CUP application for a hearing before the Planning and Zoning Commission, detailing the agency's comments and recommendations for the project.** (existing 442 H)

H. Permits and Agency Coordination

1. All required federal, state, and local permits applicable to the project shall be obtained prior to construction as required by the issuing agencies.
2. All Renewable Energy Systems shall be designed and constructed, to the greatest extent feasible, to prevent interior and exterior access by the public and shall include interior ladders and locking doors.
3. All renewable energy equipment installed at the facility shall be commercially manufactured and certified for utility-scale use under applicable industry standards and building codes.
4. For construction and permitting purposes, all wind turbines and solar panels shall conform to the regulations for the applicable seismic zone of the adopted building code.
5. All necessary building, grading, and other permits shall be obtained from the Apache County Community Development Department prior to any site preparation or construction.
6. No building or structure may be constructed or occupied prior to full compliance with all applicable Community Development Department requirements, including grading, drainage plans, flood control requirements, and issuance of building and other permits.

I. Signs

1. Signs associated with the project are limited to one project identification, information, interpretive, and address sign not exceeding 24 square feet at each point of ingress and egress. No other signs shall be installed except required warning and directional signs.
2. Limited logos or manufacturer names are permitted on generator housings or hubs. No other advertisements or prominent logos or messages are allowed.
3. Facility Identification and Emergency Contact Signage
 - a. The permit holder shall install and maintain clearly visible identification and emergency contact signage at all primary facility entrances. Such signage shall include:
 - the name of the facility owner or operator
 - a 24-hour emergency contact telephone number
 - the name of the responsible operating company
 - b. The emergency contact number shall connect to a knowledgeable company representative or operator capable of responding to emergencies or operational issues at the facility.
 - c. Contact information shall be displayed on a **prominent sign at each project entrance** and maintained on file

- d. The permit holder shall maintain current ownership information and emergency contact information with the Apache County Community Development Department at all times.

J. Geotechnical Investigations

1. Prior to geotechnical test hole drilling the Applicant's geologist and engineer shall consult all available existing site-specific geological surveys and soil survey information already available. All forms of destructive sampling shall be kept to a minimum and restored promptly.
2. All test holes dug/drilled for soils and/or geotechnical studies or for construction, which are abandoned as non-suitable sites, shall be promptly filled (within 15 calendar days) with the same native materials that were extracted, placing rock below with soil on top.

K. Vegetation Removal and Disposal

1. State-Protected native vegetation removed for construction shall be salvaged or relocated according to Arizona Native Plant Law, in ~~coordination~~ **consultation** with the Apache Natural Resources Conservation District (ANRCD) as **determined by Apache County**.
2. Non-State-Protected trees/shrubs removed for construction shall be disposed of at the discretion of the landowner.
3. On State- or County-owned lands, they shall be responsibly disposed of or lopped and scattered across barren soil where needed for topsoil retention or offered to community civic-charitable organizations as donated firewood. In all cases, ~~coordination~~ **consultation** with the ANRCD, and/or the local fire district/department, ~~is required~~ **as determined by Apache County**.
4. Non-State-Protected, non-noxious herbaceous vegetation removed for construction shall be offered to nearby landowners or ranchers, or spread across barren soil, or burned in a responsible manner. ~~Coordination~~ **consultation** with the ANRCD, and/or the local fire district ~~department, is required~~ **as determined by Apache County**.
5. Noxious-invasive plant species shall be promptly disposed of according to the Noxious-Invasive Weed Prevention and Control Plan developed in ~~coordination~~ **consultation** with the ANRCD **as determined by Apache County**.
6. State-Protected native vegetation removed for construction shall be salvaged or relocated according to Arizona Native Plant Law, in ~~coordination~~ **consultation** with

the Apache Natural Resources Conservation District (ANRCD) as **determined by Apache County.**

7. Non-State-Protected trees/shrubs removed for construction shall be disposed of at the discretion of the landowner. On State- or County-owned lands, they shall be responsibly disposed of or lopped and scattered across barren soil where needed for topsoil retention or offered to community civic-charitable organizations as donated firewood.
8. Non-State-Protected, non-noxious herbaceous vegetation removed for construction shall be offered to nearby landowners or ranchers, or spread across barren soil, or burned in a responsible manner. ~~Coordination~~ **consultation** with the ANRCD, and/or the local fire district department, ~~is required~~ **as determined by Apache County.**
9. In all cases, ~~coordination~~ **consultation** with the ANRCD, and/or the local fire district/department, ~~is required~~ **as determined by Apache County.**
10. Non-vegetative native materials (rock, cinders, soils) removed or displaced by pre- or post-construction excavation shall not be stockpiled on-site for more than 6 months, unless included in CUP approval. The following options will be permitted - They may be:
 - Used to reshape certain portions of the project site terrain, if needed and approved.
 - Donated to the County or local municipalities or businesses that can use them.
 - Stored or used on private lands by written agreement.
 - Crushed and used for new road surfacing or for concrete foundation mixtures.

L. Operations and Cleanup

If project components or materials must be replaced during construction or operations due to manufacturing flaws, maintenance issues, weather extremes, accidents, or unforeseen events, including but not limited to turbine blade throw, tower collapse, cracked solar panels, battery leaks, oil spills, or similar incidents, such materials shall be completely removed and disposed of in accordance with decommissioning and site restoration requirements in Section **811** of this Article.

All such cleanup and removal activities shall be promptly reported to **Apache County with notice provided to ANRCD for informational purposes. Cleanup will commence within thirty (30) calendar days. The CUP holder may ask for a longer time period in writing** as necessary to accommodate site conditions and reasonable scheduling needs, at the CUP holder's expense.

M. Noise Requirements and Mitigation Measures

1. Pre-Construction Sound Study

Prior to issuance of a Conditional Use Permit (CUP), the applicant shall submit a sound study prepared by an independent qualified acoustical consultant.

a. The study shall:

- determine existing background sound levels at representative receptor locations, including nearby residences, schools, libraries, or hospitals;
- identify the major noise-producing components of the proposed facility, including wind turbines, solar inverters, transformers, substations, cooling equipment, and other mechanical equipment; and
- demonstrate that the proposed renewable energy facility will comply with the sound limits established in this section.

b. Background sound levels shall be determined using generally accepted acoustical measurement standards and practices.

2. Operational Noise Limits Noise from wind turbines, solar equipment, substations, transformers, cooling systems, and other mechanical equipment associated with a Renewable Energy Generation Facility shall not exceed the following limits at the exterior of any structure existing at the time of CUP approval.

a. Non-Participating Parcels - Noise shall not exceed 50 dBA LAeq (10-minute average) or five (5) dB above the measured background sound level (LA90), whichever is greater, at any non-participating occupied residence, school, library, or hospital.

b. Participating Parcels - Noise shall not exceed **55** dBA LAeq (10-minute average) at any participating occupied residence.

3. Construction Noise - Construction activities associated with Renewable Energy Generation Facilities shall be limited to the hours of **7:00 a.m. to 7:00 p.m.**, Activities generating significant noise shall not occur on Sundays or federal holidays unless necessary for safety, emergency repairs, or continuous construction operations approved by the County.

The Community Development Director may approve limited deviations from these hours when necessary for safety, weather conditions, or continuous construction operations.

N. Setbacks

Setback areas may be used for access within the development but are otherwise to remain in their current vegetative state. (existing 442 I)

1. Wind Projects Setbacks. - The minimum safety setback distance, location, and spacing requirements for Wind Energy Generation facilities shall be as follows.

a. As used herein, “total turbine height” means the height measured from the finished foundation to the top of the structure, including the uppermost extension of any blade (that is, “straight up”).

b. Setbacks shall be such that the sound standards established in Section 806 M 2 will not be exceeded. (existing 442 B 1)

c. Wind energy facilities shall comply with the setback and spacing requirements set forth below. Where multiple setback standards apply, the **greatest required setback distance shall control.**

d. Apache County reserves the right to require the applicant to submit a qualified third party expert’ snalysis and written report for audible noise due to project construction and operations. (existing 442 B 1)

e. Non-Generating Structures

The minimum setbacks from the project boundary for all non-electrical generating uses and structures, including administrative buildings, meteorological or anemometer towers, maintenance buildings, operations buildings, and transformers, shall conform to the setback requirements of the zoning district in which the use or structure is located.

f. Roadway Setbacks

Individual wind turbines shall be set back from any non-paved public or publicly maintained roadway, at least **one and one-half (1.5) times (150%)** the total turbines height measured to the nearest edge of the right-of-way to the center of the turbines foundation.

Individual wind turbines shall be setback from any major highway or **significant Scenic Travel Corridors as listed in the Apache County Comprehensive Plan a minimum distance of one (1) mile** of the total turbines height, measured to the nearest edge of the right of way to the center of the turbines foundation.

g. Railways, Utilities, and Structures

Individual wind turbines shall be set back from any railway, measured to the nearest edge of the right-of-way, or from any utility line, whether above or below ground and measured to the nearest edge of the utility easement, or from any

interior phase line or structure regardless of use, at least **one and one-half (1.5) times (150%)** the total turbines height.

2. Solar Project Setbacks

Solar energy facilities shall comply with the following setback requirements. Setback distances shall be measured from the nearest outer edge of the solar equipment footprint or from the project perimeter fence, whichever is closest to the setback boundary, consistent with the definition of Setback Distance in Section 437.

a. Standard Solar Setback

A minimum setback of fifty (50) feet shall be maintained for all solar energy facilities unless a greater distance is required by the applicable fire district or emergency services provider for safety, emergency access, or fire protection.

b. Private Parcels

Solar facilities shall maintain a setback of:

- fifty (50) feet from the boundary of any participating private parcel, or from any vacant private parcel without an occupied residence.
- two hundred (200) feet from the boundary of any non-participating parcel containing an occupied residence.

For purposes of this subsection, a residence shall qualify for the two-hundred-foot setback only if it has received either:

- a Certificate of Occupancy issued by the Apache County Building Department, or
- a valid building permit issued prior to submission of a complete Conditional Use Permit (CUP) application.

c. Public Lands

Where a solar project boundary adjoins non-private lands, including but not limited to Tribal lands, Arizona State Trust Land, Bureau of Land Management lands, National Forest lands, or other publicly managed lands, solar facilities shall maintain a minimum setback of fifty (50) feet from the project boundary.

d. Roads and Highways

Solar facilities shall maintain the following setbacks from public road rights-of-way:

- five hundred (500) feet from the right-of-way of any Major Highway, including U.S. and State highways.
- one hundred (100) feet from the right-of-way of any county road, whether paved or unpaved.
- fifty (50) feet from the right-of-way of any other road not maintained by Apache County.

The Board of Supervisors may approve a reduction in roadway setbacks where terrain, vegetation, visual screening, or other mitigation measures adequately reduce visual impacts and protect public safety.

e. Non-Generating Structures

All non-generating structures associated with a solar energy facility, including substations, maintenance buildings, transformers, administrative buildings, and other support facilities, shall comply with the setback requirements of the zoning district in which the project is located.

3. Setback Reduction Waivers

The Board of Supervisors may approve a reduction in the setback requirements in this entire section both for wind or solar projects under any of the following circumstances:

1. An affected property owner provides written consent allowing renewable energy facilities to encroach into otherwise required setback areas. The consent shall identify the approved setback reduction and be recorded with the Apache County Recorder prior to issuance of the Conditional Use Permit. The recorded consent shall run with the land to provide notice to future property owners, and a copy shall be provided to the Apache County Community Development Department prior to issuance of any building permit.
2. The project shares a common property line with another approved Renewable Energy Generation Facility.
3. An adjacent property owner pursuing development of a Renewable Energy Generation Facility or similar use submits a letter of consent for the proposed setback reduction to the Community Development Department.
4. The parcel on which the project is located and an adjacent parcel are under common ownership.
5. The existing use of an adjacent property generates sound levels greater than those permitted for the Renewable Energy Generation Facility under this section.

Section 807: Use of CUP, Terms and Conditions

Section 808: CUP Suspension and Revocation

Section 809: Joint Agency Approvals (could be included in Section 805)

Section 810: Termination and Decommissioning

Section 811: Development Agreements

Section 812: Conflict

All ordinances, regulations, resolutions, and parts thereof which may be in conflict with the provisions of this Ordinance, in all instances this Ordinance shall control.

Section 813: Severability

If any section, subsection, sentence, clause, or phrase of this resolution is for any reason, held by a court of competent jurisdiction to be invalid, such holdings shall not affect the validity of the remaining portion of this resolution. Nothing contained in this resolution shall be construed as releasing a subdivider from full compliance with any other local and County regulations and requirements, the Arizona Revised Statutes, the Rules and Regulations of the State Land Department, Real Estate Division, and Arizona State Health Department pertaining to the establishment of subdivisions.

Section 814: Enactment

WHEREAS; the effect of this Ordinance is intended to benefit the present and future citizens of Apache County by providing for the health, welfare, safety, convenience, and proper assurances of appropriate growth and development.