ZONING REVIEW – Kennett Square Borough, PA



PZD-1: Review zoning requirements and remove restrictions that intentionally or unintentionally prohibit PV development. Compile findings in a memo, and commit to reducing barriers to PV during next zoning review.

This SolSmart prerequisite requires communities to (a) conduct a review of zoning requirements, (b) identify restrictions that prohibit PV development, and (c) commit to addressing these barriers during the next community zoning

As there are no references to solar in the current code, the development of a solar ordinance may be advisable. Below are some considerations for the creation of such an ordinance. Solar may still be worth adding to the use tables for each district in the existing sections of the code, even solar's status as by-right is established in the solar ordinance.

Gaps in current code language

Element	Best Practice	Keview	Reviewer Comments	Example(s) from other codes
Intent/purpose	 Many municipalities have 	23-3	23-3 - Purpose: b-1	See P.7-8 of DVRPC Renewable Energy
	inserted language explicitly	0	 To provide, promote, protect and facilitate one 	Ordinance Framework
	encouraging solar in the		or more of the following: The public health,	
	section that lays out the intent		safety, morals, general welfare, the	
	and purpose of the solar		provisions of adequate sun, light and air	
	ordinance.	0	This could be seen as encouraging solar, but	
			including that support more explicitly within an	
			additional solar ordinance would be more	
			encouraging.	

	• 15' falls	above building height restrictions • Identify a maximum allowed ground mount solar height of 10'-15'	
	 23-7 - Definitions. No accessory structure shall exceed fifteen 	 Provide rooftop solar an exemption from or allowance 	Height
	ing ng	waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction.	
	√ 0	would maximize either active solar or passive solar benefits. Some possible ways to	
	No mention of solar-friendly design in Zoning or SALDO at	 Many municipalities encourage subdivisions to be laid out in an orientation that 	Encouraging solar-friendly design
		 Many communities identify Many communities identify and allow for solar installations as accessory uses in every district 	
-	 23-30 - Accessory uses. "In General. An Accessory use on the same lot and customarily incidental to a permitted principal use is permitted by right." However, solar is not explicitly mentioned. 	 Allow small rooftop and ground mount solar installations in all major zoning districts as a use-by- right (allowed without special 	Use-by-right
		heating Define and distinguish between large-scale or primary use installations and secondary or accessory use installations	
	er Should	solar energy system: solar collectors or solar energy devices used for space heating, space cooling, electric generation, and water	
	• 23-7 - Definitions.	 Include in the definition of a 	Definitions

Accessory use maximum	Lot coverage fi
●Exempt solar from the maximum allowable number of accessory uses	Exempt ground mount solar from lot coverage restrictions that apply to primary buildings
•	0 8 = 7
 23-30 c2Biv No more than two accessory structures, including a private detached garage, shall be located in any district, on one lot unless on a lot that is fifteen thousand square feet or larger in size. Lots of between fifteen thousand and twenty-nine thousand square feet may have no more than three accessory structures; larger lots may have one additional structure for each additional fifteen thousand square feet of lot size." Would be most permissive to exclude ground mount solar from the number of allowable accessory uses. Rooftop systems are not affected by this restriction, but it would be good to state that explicitly in the ordinance. 	No language on whether ground mount solar applies to impervious surface or lot coverage 23-48 c "Impervious cover" means the percent of the lot area covered by surfaces that have a runoff coefficient of 0.8 or higher. In case of uncertainty, the borough engineer shall have the authority to determine the runoff coefficient of a type of material. Guidance from Model Zoning for Massachusetts: "it is recommended that solar energy systems with grass or another pervious surface under them be exempted from lot coverage or impervious surface calculations. If the area is to be paved or otherwise rendered impervious then this land area should in fact count toward any coverage or impervious surface limit. It is also important to note that this recommended exemption is not intended to apply to municipal stormwater regulations, as the panels could have the effect of altering the volume, velocity, and discharge pattern of stormwater runoff."
	P. 9 Model Zoning for the Regulation of Solar Energy Systems

Historic district guidance	Ground mount solar Preexisting non-conforming uses	Glare
 Municipal code should clearly explain the review process for historic districts. Historic commissions and review boards are encouraged to write design guidelines that support the development of solar energy systems and are sensitive to the historic preservation goals of the Commission. 	 Allow for small ground mount installations as accessory uses and large, primary use installations through a conditional or special use permit Code should exempt rooftop solar or small groundmounted solar from any special permits that may be required for alterations to a lot or structure that contains a preexisting non-conforming use. 	 Do not regulate glare from photovoltaic installations as PV modules use non-reflective glass and are designed to absorb rather than reflect sunlight. PV modules are generally less reflective than windows. Municipalities can defer to the Federal Aviation Administration to regulate potential glare from solar installations on or near airports
 No mention of solar. Consider adding considerations for solar PV in any historic district guidance. 	 Ground mount installations not explicitly stated as an allowed use, but the definition for allowed accessory uses is pretty broad. In practice, ground mounted installations are considered accessory structures. I don't see anything restricting accessory uses for preexisting non-conforming use lots. 	 23-56 - Light, glare and heat control. (a) All uses shall minimize the production of light, heat or glare that is perceptible beyond any property line of the lot which the light, heat or glare is produced. This seems to mostly be geared toward lighting. However, this could be restrictive. I would add a line about how property owners "should" locate the panels in such a way as to be most effective with the least amount of visual impact, rather than "shall" minimize glare. Are glare studies for solar installations generally provided?
NREL's Implementing Solar PV Projects on Historic Buildings and in Historic Districts NC Clean Energy Technology Center: Installing Solar Panels on Historic Buildings	P. 38 APA's Integrating Solar Energy into Local Development Regulations P. 20-21 Massachusetts model solar ordinance	PV at airports

Solar	 Establish a mechanism to 	•	These easements would currently be done possibly	Wisconsin State Statute \$66,0401.
access/solar	protect solar access and	≠	through deed restrictions.	Perry, IA Subdivision Regulations
rights	rights (e.g. solar easement for	•	No orientation or other solar rights laws.	
1	installations)		,	
	 Include active and passive 			
	solar provisions (such as			
	orientation) in development			
	orientation) in development			
	and subdivision regulations		The state of the s	
Regulate	 Define and regulate solar 	•	In general, this can be done with height and setback	See p. 19 of Planning and Zoning for Solar in
based on the	installations based on the	73	regulations. It is also handled by the states in some	North Carolina
area or impact	area (e.g. square feet) or	ω	situations.	Example: Fort Collins, CO
	impact of the installation		 The Pennsylvania Utility Commission (PUC) 	
	rather than the capacity (kW)		limits system sizes eligible for net metering	
	as efficiencies and		based on use:	
	technologies change over		 50 kW capacity limit for residential 	
	time		 1 MW capacity limit for non-residential 	
	 Do not regulate based on the 		 3 MW capacity for microgrid and 	
	use of the energy generated		emergency systems	
	(e.g. requiring that accessory			
	use solar electricity			
	generation be consumed			
	exclusively on-site), as this is			
	often irrelevant to the impact			

Signature (scheduled for 700	have read the review above and	[Name]	Joseph Scalac
Cheli	_, with the goal of addressing them in the	have read the review above and commit to discussing these gaps at the	[Title]	Borough Manager
Date	the code.	next comr	[Comr	Borough ar Kenney
7/22/1	•	the next community zoning review	nunity]	JE Kennet JE
9		g review,	[State]	PA