ZONING REVIEW - [Upper Merion, 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.

set-back requirements, etc.) and gaps. Below, please find the outcome of their review. By reading the conducted an initial review of your community's code to assess possible obstacles (i.e. height restrictions next community zoning review. To assist your community, the national solar experts at SolSmart have page, your community will satisfy PZD-1 and be one step closer to achieving SolSmart designation. narrative, reviewing the example code language provided, and signing the statement at the bottom of the 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

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

Gaps in current code language

Element	Best Practice	Reviewer Comments	Example(s) from other codes
Intent/purpose	Many municipalities have inserted		See P.7-8 of <u>DVRPC</u>
	language explicitly encouraging solar in		Renewable Energy
	the section that lays out the intent and		Ordinance Framework
	purpose of the solar ordinance.		
Definitions	 Include in the definition of a solar energy 	 No definitions for solar energy systems or 	Massachusetts model
	system: solar collectors or solar energy	alternative energy systems.	solar ordinance
	devices used for space heating, space		
	cooling, electric generation, and water		
	heating		
	 Define and distinguish between large- 		
	scale or primary use installations and		
	secondary or accessory use installations		
Use-by-right	 Allow small rooftop and ground mount 	 Solar energy systems are neither allowed nor 	Use Tables P. 3
	solar installations in all major zoning	disallowed as accessory uses.	Massachusetts model
	districts as a use-by-right (allowed		solar ordinance
-	without special review)		
	 Many communities identify and allow for 		
	solar installations as accessory uses in		

	FAA guidance PV at airports	There are no provisions regulating glare from solar PV.	·	 Do not regulate glare from photovoltaic installations as PV modules use non- reflective glass and are designed to absorb rather than reflect sunlight. PV 	Glare
• Many municipalities encourage subdivisions to be laid out in an orientation that would maximize either active solar or passive solar benefits. • Some possible ways to encourage solar include waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction. • Provide rooftop solar an exemption from or allowance above building height restrictions • Identify a maximum allowed ground mount solar from the maximum allowable number of accessory uses • Require a setback applicable to fences to ground mount solar, rather than a setback required of buildings, or allow solar an exemption from setback requirements • Limit screening requirements to historic districts There are currently no incentives or mandates encouraging or requiring solar-friendly design. There are currently no incentives or mandates encouraging or requiring solar-friendly design. There are currently no incentives or mandates encouraging or requiring solar-friendly design. There are currently no incentives or mandates encouraging or requiring solar-friendly design. There are currently no incentives or mandates encouraging or requiring solar-friendly design. That is a courrently no incentives or mandates encouraging or requiring solar-friendly design. There are currently no incentives of requiring solar-friendly design. There are currently 14: There are currently no incentives of requiring solar-friendly design. The couraging or requiring solar-friendly design. That is a courrently 14: There are currently 14: The are note point and the side and 10 or less from the rear, depending on the district. There are currently 14: There are currently 14: There are currently 14: The accessory structures is currently 14: The accessory structure setbacks are 1 for every 1 in height above 6: There are currently 14: There are currently	San Fran System S Ground F LA PV Fi				Rooftop fire safety access and setbacks
 • Many municipalities encourage subdivisions to be laid out in an orientation that would maximize either active solar or passive solar benefits. • Some possible ways to encourage solar include waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction. • Provide rooftop solar an exemption from or allowance above building height restrictions • Identify a maximum allowed ground mount solar height of 10'-15' age Exempt ground mount solar from the maximum allowed ground mount solar from the maximum allowed ground mount solar from the maximum allowed ground solar from the maximum allowed ground mount solar, rather than allowable number of accessory uses • Require a setback applicable to fences to ground mount solar, rather than a setback required of buildings, or allow solar an exemption from setback required of buildings, or allow solar an exemption from setback the rear, depending on the district. 	P.19 <u>DVR</u> <u>Energy Or</u> <u>Framewor</u> <u>Historic di</u>	Screening required for outdoor electrical or other utility equipment. Screening to lessen visual impact shall consist of trees, shrubbery and other such living landscaping. This can be restrictive if solar PV is included in these regulations, and using trees could cause too much shade for the panels to perform efficiently.	ents	 Exempt solar from rooftop equipment screening requirements Allow PV installations to be seen fron public roadways Limit screening or aesthetic requirem to historic districts 	Aesthetic requirements
 Many municipalities encourage subdivisions to be laid out in an orientation that would maximize either active solar or passive solar benefits. Some possible ways to encourage solar include waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction. Provide rooftop solar an exemption from or allowance above building height restrictions Identify a maximum allowed ground mount solar fiom lot coverage restrictions that apply to primary buildings Exempt solar from the maximum 	P. 7, 8 Mo the Regula Energy Sy	Fence setbacks are 1' for every 1' in height above 6'. Accessory structure setbacks are generally 10' or less from the side and 10' or less from the rear, depending on the district.	Q	allowable number of accessory uses Require a setback applicable to fence ground mount solar, rather than a setback required of buildings, or allov solar an exemption from setback requirements	maximum Setbacks
 Many municipalities encourage subdivisions to be laid out in an orientation that would maximize either active solar or passive solar benefits. Some possible ways to encourage solar include waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction. Provide rooftop solar an exemption from or allowance above building height restrictions Identify a maximum allowed ground mount solar height of 10'-15' There are currently no incentives or mandates encouraging or requiring solar-friendly design. Max height for accessory structures is currently 14'. 	P. 9 Mode Regulation Energy Sy		nary	Exempt ground mount solar from lot coverage restrictions that apply to prim buildings • Exempt solar from the maximum	Lot coverage Accessory use
 Many municipalities encourage subdivisions to be laid out in an orientation that would maximize either active solar or passive solar benefits. Some possible ways to encourage solar include waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction. There are currently no incentives or mandates encouraging or requiring solar-friendly design. 	P. 7 Massa model sola	or accessory		 Provide rooftop solar an exemption from the or allowance above building height restrictions Identify a maximum allowed ground mount solar height of 10'-15' 	Height
	See P. 12- Essential Ir ("Solar Oric Siting" and Homes") See P. 2 of Briefing Pa ("Creating I	There are currently no incentives or mandates encouraging or requiring solar-friendly design.		 Many municipalities encourage subdivisions to be laid out in an orientation that would maximize eithe active solar or passive solar benefits. Some possible ways to encourage so include waiving permit fees, providing density bonuses, reducing minimum parking requirements, and mandating solar ready construction. 	Encouraging solar-friendly design

Regulate based on the area or impact impact capacity (kW) as efficiencies and technologies change over time • Do not regulate based on the use of the energy generated (e.g. requiring that accessory use solar electricity generatic be consumed exclusively on-site), as this is often irrelevant to the impact	Solar access/solar access and rights (e.g. solar easement for installations) Include active and passive solar provisions (such as orientation) in development and subdivision regulation	Historic district guidance • Historic commissions and review boar are encouraged to write design guidel that support the development of solar energy systems and are sensitive to thistoric preservation goals of the Commission.	Preexisting non- conforming uses small ground-mounted solar from any special permits that may be required from alterations to a lot or structure that contains a preexisting non-conforming use.	Ground mount • Allow for small ground mount installations through a conditional or special use permit	modules are generally less reflective t windows. • Municipalities can defer to the Federal Aviation Administration to regulate potential glare from solar installations or near airports
Define and regulate solar installations based on the area (e.g. square feet) or impact of the installation rather than the capacity (kW) as efficiencies and technologies change over time Do not regulate based on the use of the energy generated (e.g. requiring that accessory use solar electricity generation be consumed exclusively on-site), as this is often irrelevant to the impact	t solar sement n n gulations	 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. 	Code should exempt rooftop solar or small ground-mounted solar from any special permits that may be required for alterations to a lot or structure that contains a preexisting non-conforming use.	ations y use	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
	• Sp.	• Th wh	• CO	• No	
	Easements are defined and listed in the Subdivision and Land Development ordinance, but solar easements are not specifically mentioned. No active or passive solar provisions found.	There is a Cluster Development Overlay which can protect historically significant structures, but no Historic District was found.	Current ordinance states that preexisting non-conforming use structures may be altered as long as they conform to all height and setback requirements of the district. Special exceptions must be sought to alter non-conforming uses further.	Not explicitly allowed or disallowed	
See p. 19 of <u>Planning</u> and Zoning for Solar in North Carolina Example: Fort Collins. CO	Wisconsin State Statute §66.0401. Perry, IA Subdivision Regulations	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. 20-21 Massachusetts <u>model</u> solar ordinance	P. 38 APA's Integrating Solar Energy into Local Development Regulations	

Signature	I, LYLE BOWN , as ASSOCIATE PLANNEL have received the zoning review and read its findings.
Date 4/17/2017	of MREL MELION, PH [Community] with the State!