Battery Energy Storage System (BESS)





Example Projects

Palmer, MA



- Beef Cattle and Hay Production
- Same landowner & farmer, same ag uses
- 30' fence clearances allow equipment turns, etc

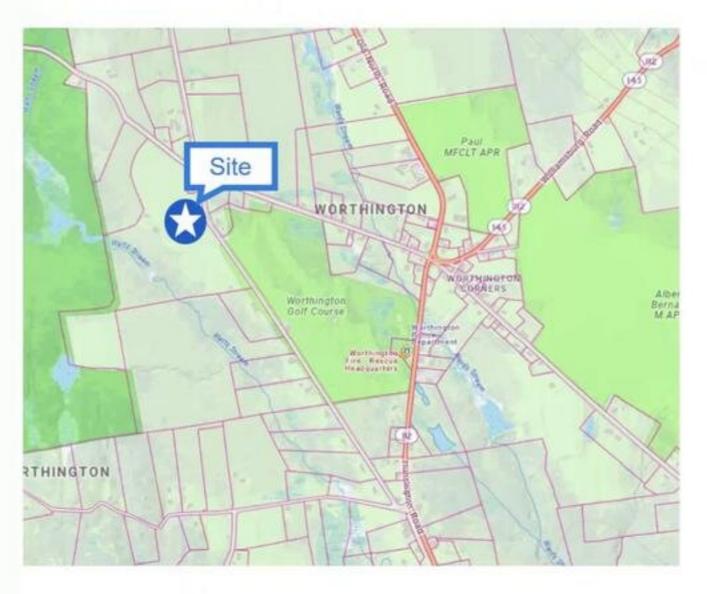
Dighton, MA



- Former butternut squash field
- Will be farmed by diversified veg & livestock farmers
- Previous farmer & landowner retired, transitioning to next generation



The Parcel



Address: 190 Ridge Rd Worthington, MA 01098

Tax Map: 407-0-28

Zoning District: Agricultural Residential &

Water Supply Protection District

Parcel Acreage: 71.6 acres







BLUEWAVE

Worthington Ridge Rd Dual-Use Project Overview

BWC Wades Stream, LLC November 20th, 2025















2

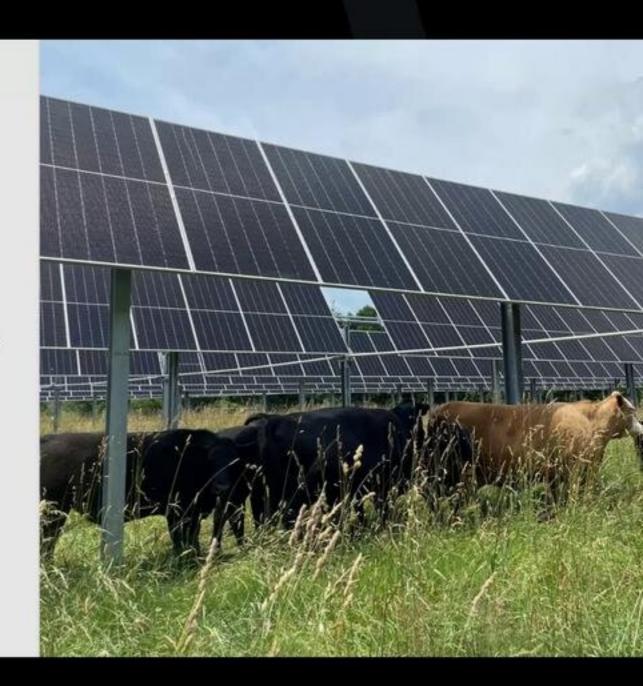
BLUEWAVE

56 Community Solar Projects developed in Northeast

80+ Agrivoltaic Projects
developed or in development

260+ Megawatts (MW) operational solar developed

114k Metric Tons of CO₂ avoided annually















Agrivoltaics Overview



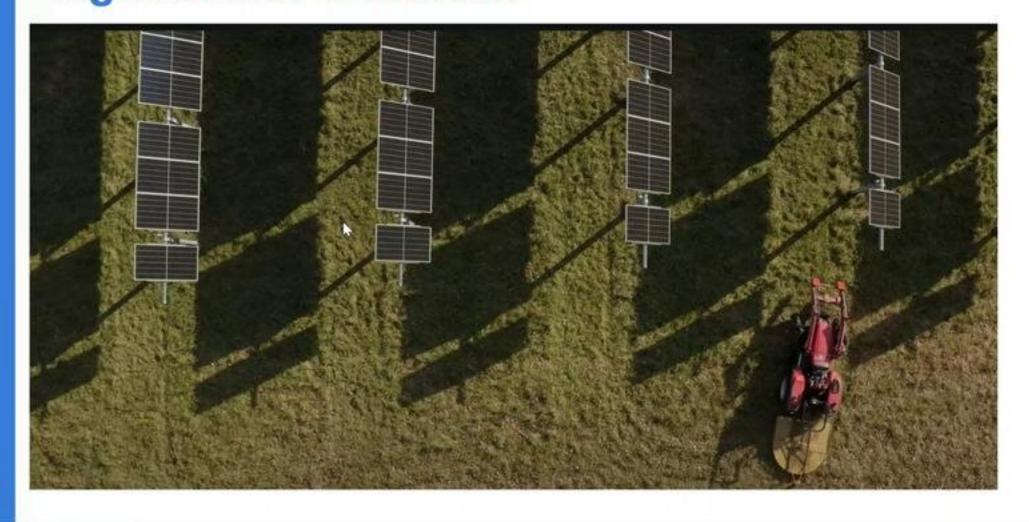








Agrivoltaics Overview















Why Dual-Use?



Economically support farms & farmers



Keep farmland in agriculture use



Encourage new generation of farmers



Produce reliable clean energy



Support agricultural municipalities through taxes











Battery Energy Storage System (BESS)

















Example Projects

Palmer, MA



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Dighton, MA

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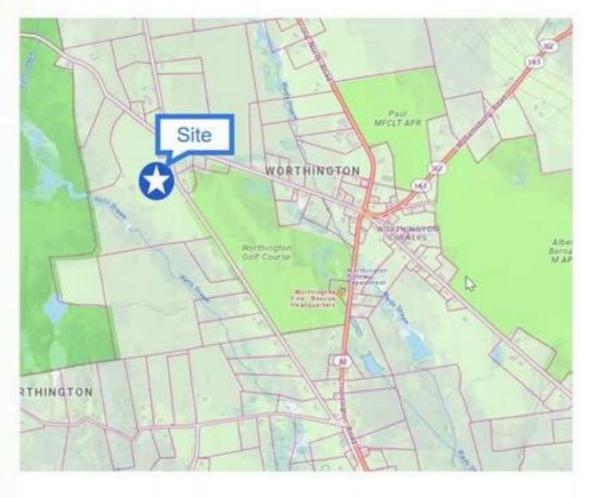








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Project Timeline

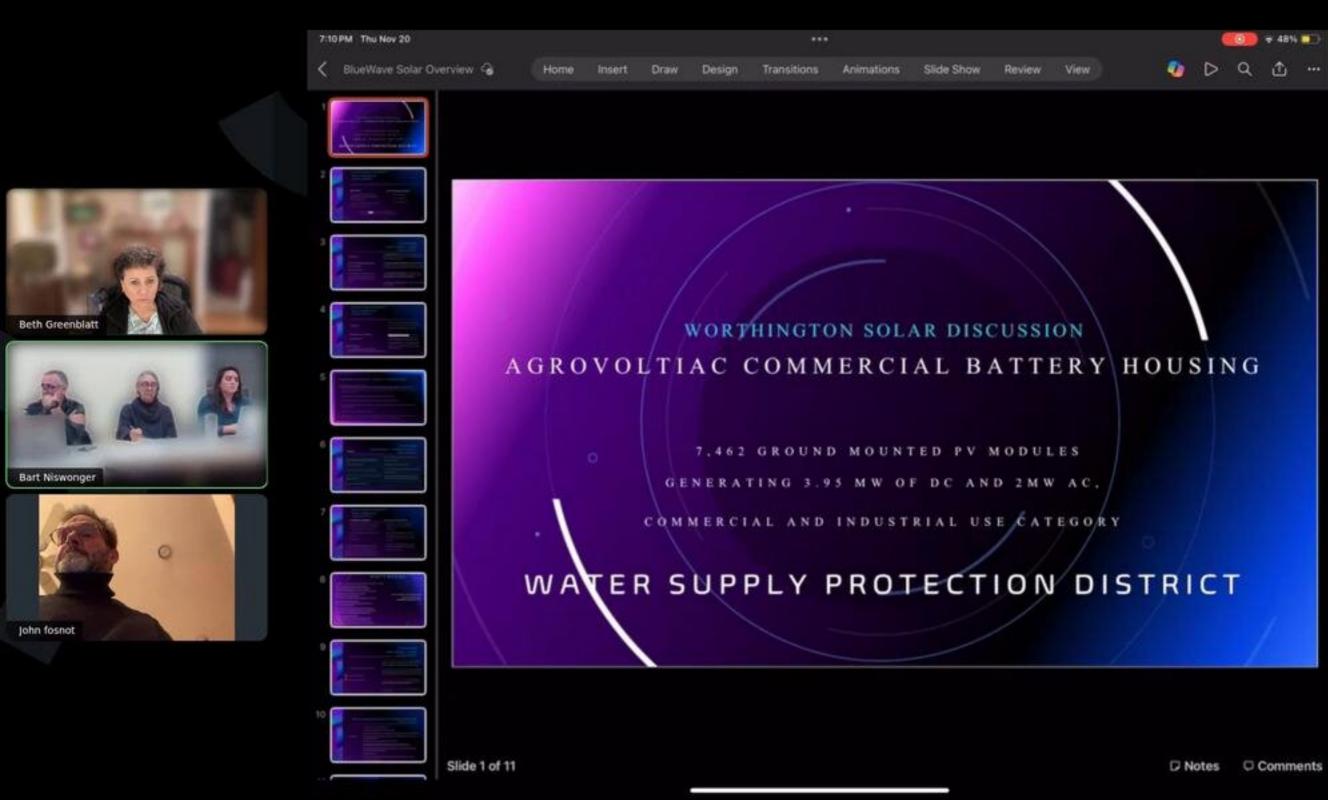
Milestone	Preliminary Schedule
Conservation Commission Hearing	11/17/2025
Planning Board Special Permit Public Hearing	11/20/2025
Construction Start	2027
Commercial Operation Date	2028





Bart Niswonger

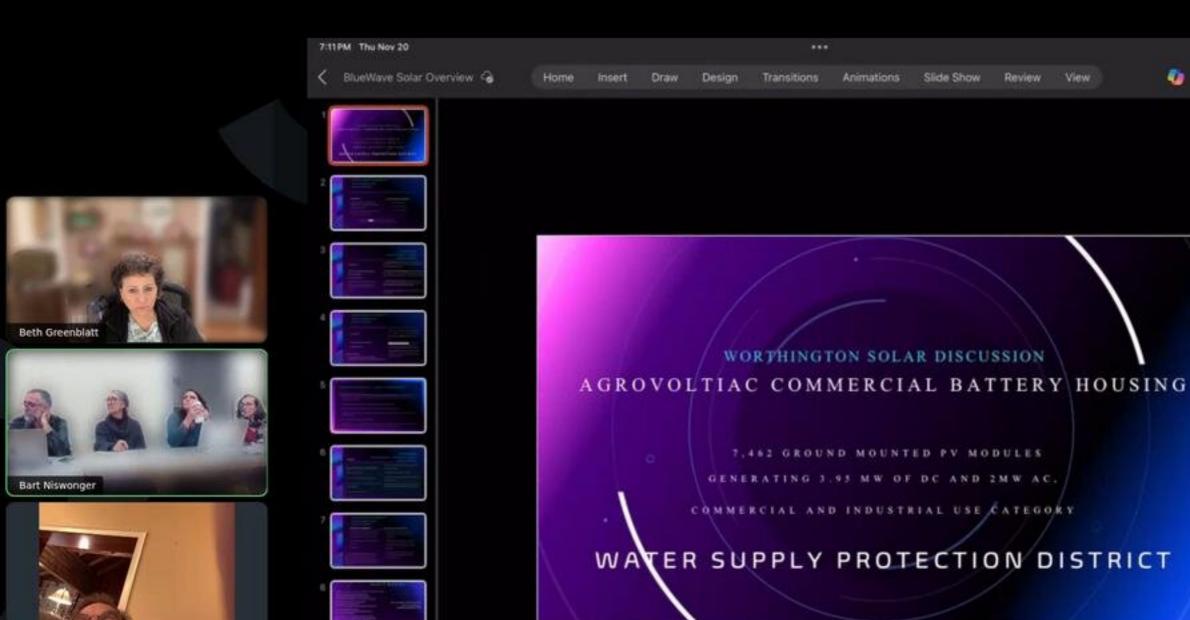
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Bart Niswonger

€ 48%



Slide 1 of 11

● 48%

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PLANNING BOARD. NOVEMBER 20TH SPECIAL PERMIT REVIEW

Transitions

190 RIDGE ROAD, WORTHINGTON

Special Permit

Required as the Application for a Large Scale Ground

Mounted Solar Photovoltaic Installation Project overlaps the

Water Supply Protection District

Zoning Bylaw 9.2.4 Special Districts, Water Supply Protection

District requires a Special Permit Approval

Town of Worthington Zoning Bylaws

Section 5.5 (Special Permits)

Section 8.7.3 (Site Plan Review)

€ 47%

Section 9.2 (Special Districts)

the Planning Board <u>may not</u> grant either approval until the application is deemed complete, and all required permits from other boards have been obtained

Slide 2 of 11 Description Comments





Bart Niswonger

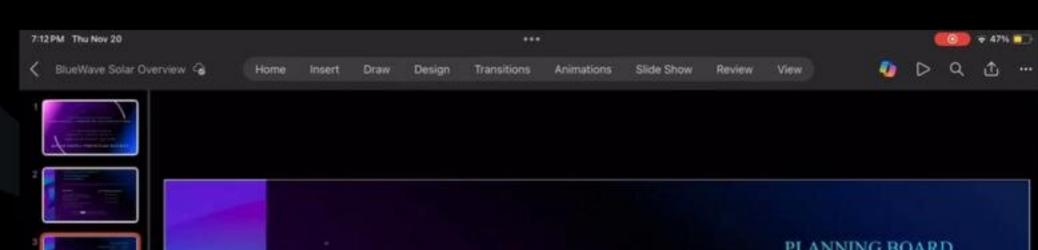
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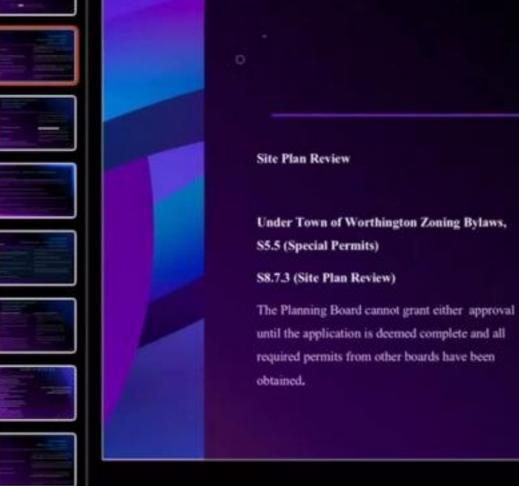
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Slide 2 of 11 Comments









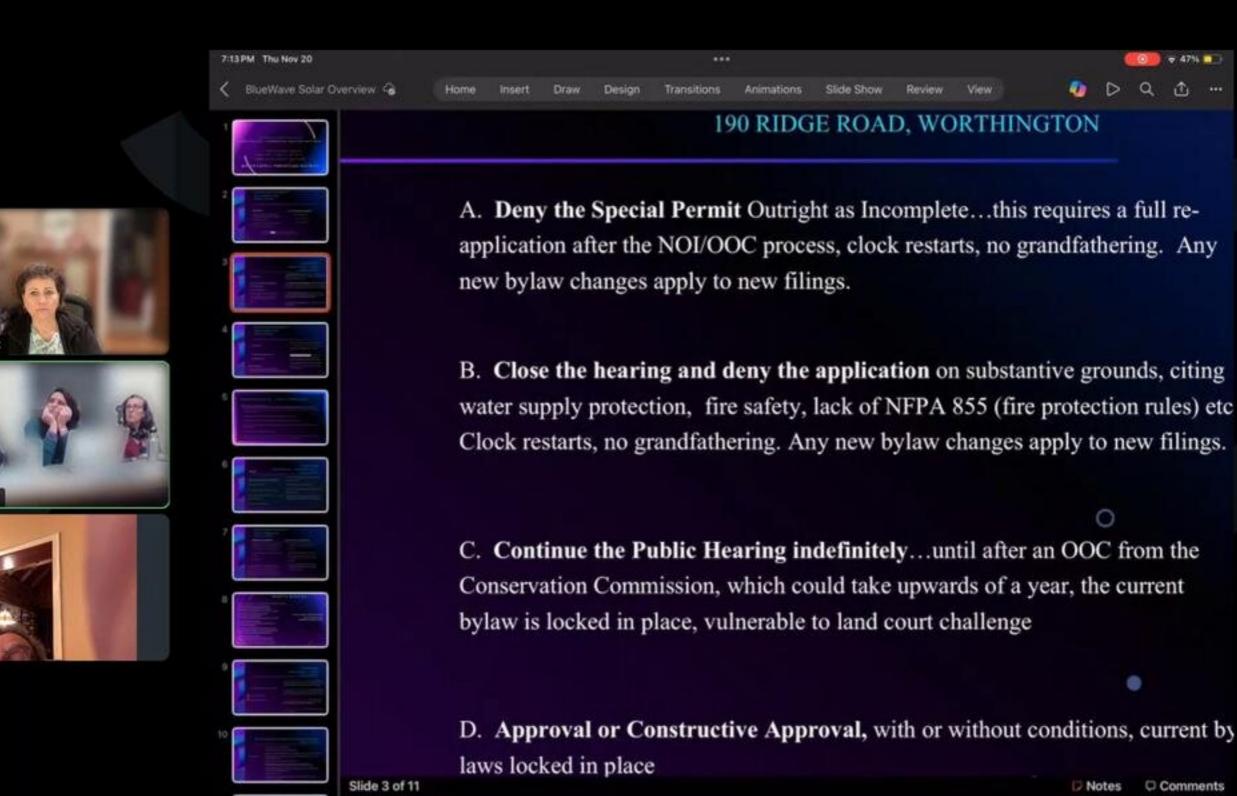
PLANNING BOARD SITE PLAN REVIEW — ACTIONS

190 RIDGE ROAD, WORTHINGTON

until the application is deemed complete and all

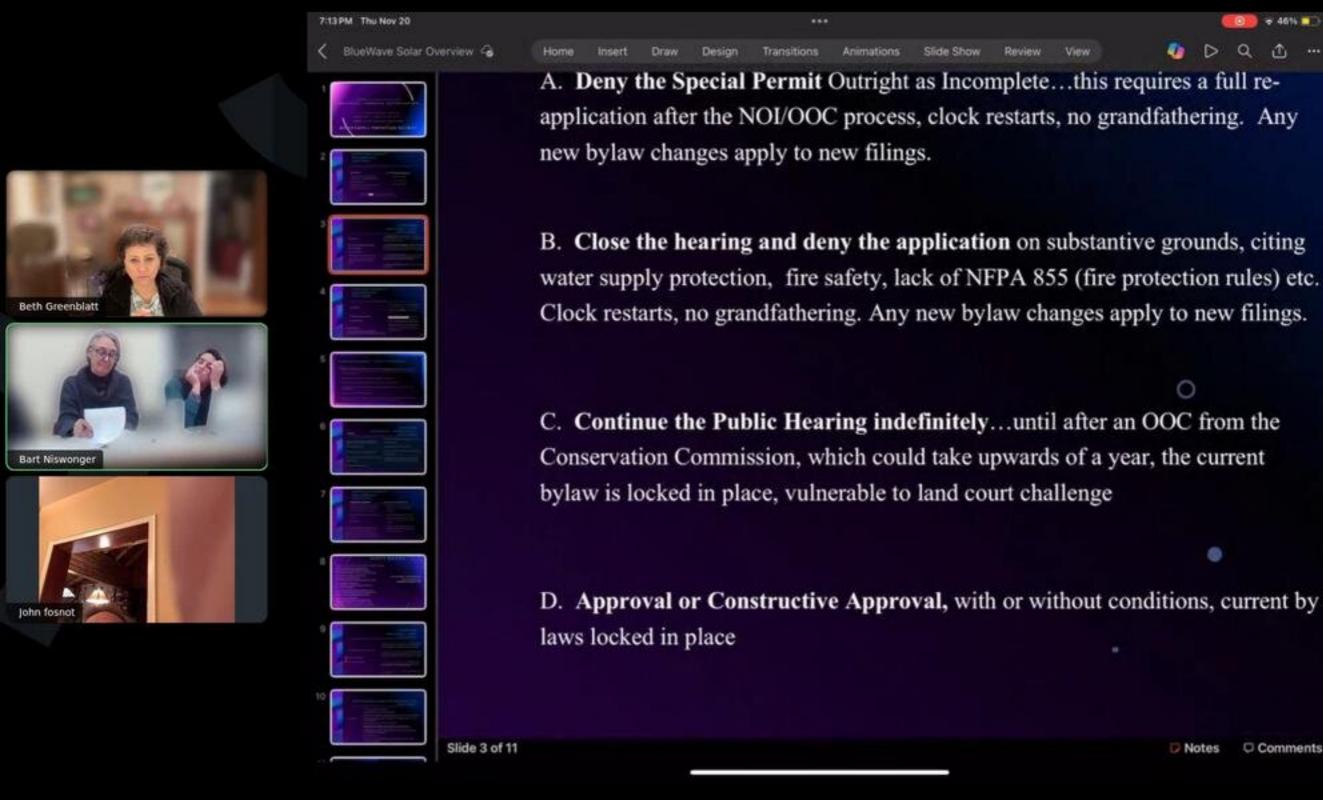
- A. Deny the Special Permit Outright as Incomplete...this requires a full reapplication after the NOI/OOC process, clock restarts, no grandfathering. Any new bylaw changes apply to new filings.
- B. Close the hearing and deny the application on substantive grounds, citing water supply protection, fire safety, lack of NFPA 855 (fire protection rules) etc. Clock restarts, no grandfathering. Any new bylaw changes apply to new filings,
- C. Continue the Public Hearing indefinitely...until after an OOC from the Conservation Commission, which could take upwards of a year, the current bylaw is locked in place, vulnerable to land court challenge
- D. Approval or Constructive Approval, with or without conditions, current by laws locked in place

Slide 3 of 11 ■ Notes
□ Comments

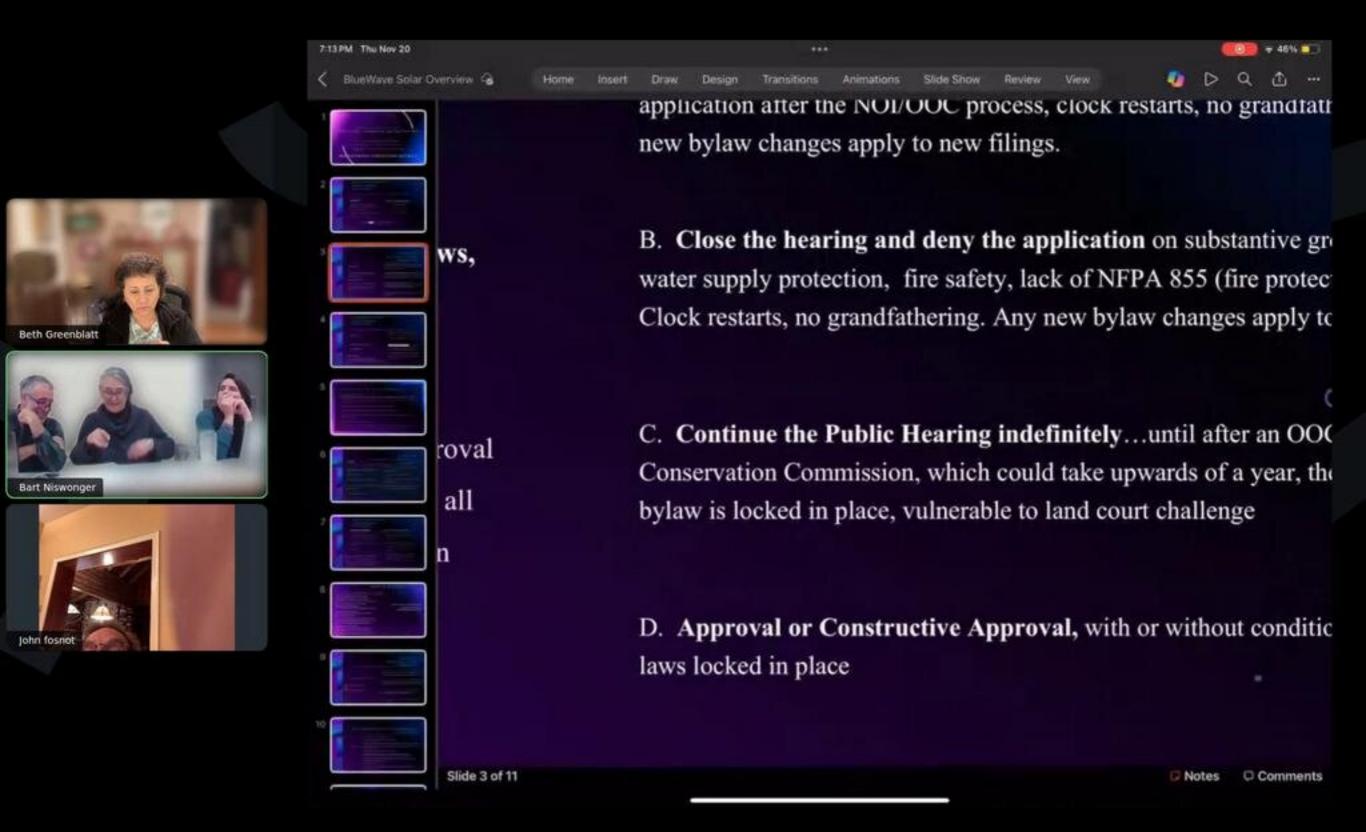


□ Comments

Bart Niswonger



□ Comments







Bart Niswonger

1. To continue the hearing until the record is complete or

The lawful choices now are:

2. To deny the permit for failure to meet the sole approval criterion in § 9.2.4.

□ Notes □ Comments

Without substantial evidence in the record to support the required finding of 'no adverse effect,' any vote to grant the Special Permit will be annulled on

the first appeal to Superior Court, ..

₩ 46%





Bart Niswonger



Slide 4 of 11 □ Notes □ Comments





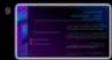




pply Protection District

ylaw 9.2.4

w are:



hearing until the record is complete or

nit for failure to meet the sole approval criterion in § 9.2.4.

before us is whether this project will adversely affect the public water supply.

The Applicant is required to demonstrate no adverse water impact

170%

The Application has no groundwater modeling, no peer-reviewed analysis, no Orders Of Conditions from the Conservation Commission, and no location, size, or chemical spill containment details on the Battery Storage.

Without substantial evidence in the record to support the required finding of 'no adverse effect,' any vote to grant the Special Permit will be annulled on the first appeal to Superior Court, .

100 → 46% **10**

Slide 4 of 11 □ Notes Comments Comments







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Slide 4 of 11 □ Notes □ Comments

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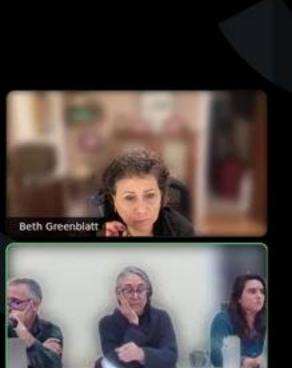




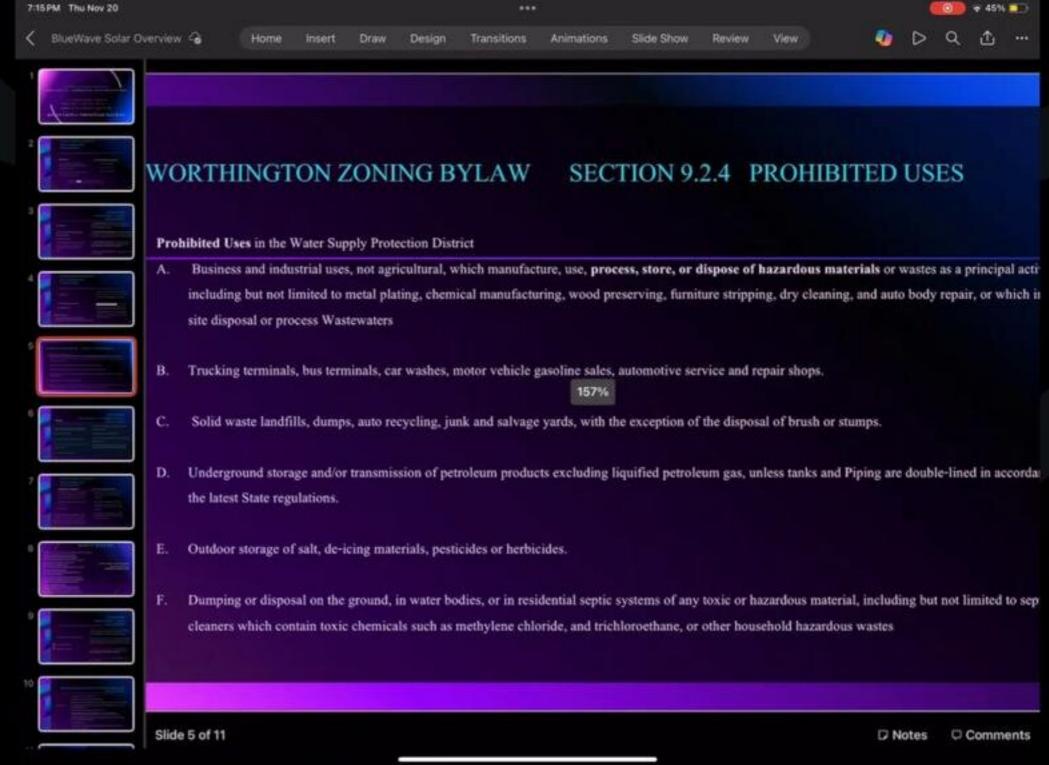
Prohibited Uses in the Water Supply Protection District

- A. Business and industrial uses, not agricultural, which manufacture, use, process, store, or dispose of hazardous materials or wastes as a principal activity, including but not limited to metal plating, chemical manufacturing, wood preserving, furniture stripping, dry cleaning, and auto body repair, or which involve on-site disposal or process Wastewaters.
- B. Trucking terminals, bus terminals, car washes, motor vehicle gasoline sales, automotive service and repair shops.
- C. Solid waste landfills, dumps, auto recycling, junk and salvage yards, with the exception of the disposal of brush or stumps.
- D. Underground storage and/or transmission of petroleum products excluding liquified petroleum gas, unless tanks and Piping are double-lined in accordance with the latest State regulations.
- E. Outdoor storage of salt, de-icing materials, pesticides or herbicides.
- F. Dumping or disposal on the ground, in water bodies, or in residential septic systems of any toxic or hazardous material, including but not limited to septic system cleaners which contain toxic chemicals such as methylene chloride, and trichloroethane, or other household hazardous wastes

Slide 5 of 11 D Notes Comments



Bart Niswonger



SITE PLAN REVIEW — INCOMPLETE AS OF 11/17

Where we Are:

Because no Order of Conditions exists due to the Conservation Commission determination on 11/17, the application before us is incomplete on its face.	Under S5.5 and 8.7.3, the Planning Board cannot approve Site Plan Review until application is deemed complete.
The Plan was submitted without key data	The application is missing every major engineering deliverable.
Special permit may only be granted after Site Plan Review is Complete	This filing is solely submitted to grandfather the project before the 2026 Site Sui Framework comes into play
The Board has no legal authority to approve, conditionally approve, or even continue deliberating this application	The BESS installation creates an undue hazard to public safety given the capacity Worthington's volunteer fire department and the absence of any fire or emergence

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PLANNING BOARD SITE PLAN REVIEW — INCOMPLETE AS OF 11/17

Where we Are:

The application should be denied, without prejudice

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PLANNING BOARD

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Conservation Commission rejected the RDA, no NOI, no Order of Conditions

lanagement Report required under MA DEP

Protection and NFPA 855 Compliance Materials

A Hazard Mitigation Analysis, no thermal runaway modeling

gency Response Plan, no plan submitted

access and suppression plans

y Confirmation, Utility Impact, Hosting Capacity Assessment

ss Road Construction Plan

Environmental Impact Materials for the Recharge area

mmissioning Plan

nwater Management Report, Landscaping/Screening Plan,

Frosion and Sediment Control Plan, not tied to BESS buildout

truction Phasing Plan required for Industrial Solar

e and Light Glare Studies

AR-Based Topographic Analysis given steep slopes

I Instruments for site control, easements, title reports

ence of Insurance and appropriate Decomissioning Surety

Under our Town Bylaws, Section 5.5 (Special Per and Section 8.7.3 (Site Plan Re the Planning Board cannot approve Site





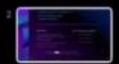




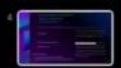




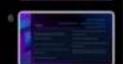
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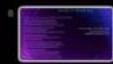
















PLANNING BOARD. NOVEMBER 20TH SPECIAL PERMIT REVIEW

190 RIDGE ROAD, WORTHINGTON

Outright Denial of Application

The application for a special permit must meet all submission requirements of the local bylaws, when required materials are not provided, the application is not legally an application

If the town denies, the town is safe in Court as the burden is on the developer

MGL Chapter 40A s11

If the Planning Board Continues instead of Denies, they are knowing violating chapter 40A by acting as if a deficient filing is valid. That becomes a basis for Procedural Invalidation of any later approval, Mandamus action to force compliance, Land Court appeal if they approve where abutters enjoy presumptive aggrievement under Chapter 40A s17

MA Case Law- the strongest authority

- Ardemore Reality v city of Worcester: Boards may deny when the record does it contain sufficient information for required findings
- Eldridge v. Board of Appeals of Chatham: The burden of producing all required materials is on the applicant. Without se materials, the board has no basis to make positive fundings and must deny

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Dartmouth v. Greater New Bedford Landfill: The court held that an application lacking material required under the zoning ordinance is not considered filed

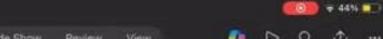
Slide 7 of 11 Comments





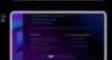


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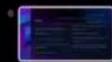
BlueWave Solar Overview Q











PLANNING BOARD. NOVEMBER 20TH SPECIAL PERMIT REVIEW

190 RIDGE ROAD, WORTHINGTON

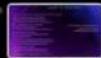
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Slide 7 of 11



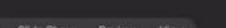
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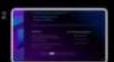


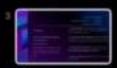


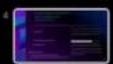




← BlueWave Solar Overview ←











PLANNING BOARD. NOVEMBER 20TH SPECIAL PERMIT REVIEW

190 RIDGE ROAD, WORTHINGTON

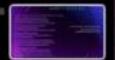
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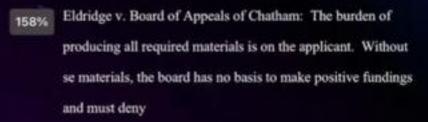
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Slide 7 of 11 Comments





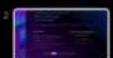


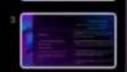
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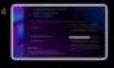




✓ BlueWave Solar Overview
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PLANNING BOARD, NOVEMBER 20TH SPECIAL PERMIT REVIEW

190 RIDGE ROAD, WORTHINGTON

Outright Denial of Application

The application for a special permit must meet all submission requirements of the local bylaws, when required materials are not provided, the application is not legally an application

If the town denies, the town is safe in Court as the burden is on the developer

MGL Chapter 40A s11

anning Board Continues instead of Denies, they are knowing chapter 40A by acting as if a deficient filing is valid. That a basis for Procedural Invalidation of any later approval, us action to force compliance, Land Court appeal if they approve outers enjoy presumptive aggrievement under Chapter 40A s17

MA Case Law- the strongest authority

- Ardemore Reality v city of Worcester: Boards may deny when the record does it contain sufficient information for required findings
- 156% idge v. Board of Appeals of Chatham: The burden of producing all required materials is on the applicant. Without se materials, the board has no basis to make positive fundings and must deny
- Dartmouth v. Greater New Bedford Landfill: The court held that an application lacking material required under the zoning ordinance is not considered filed

Notes □ Comments

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Under our Town Bylaws, Section 5.5 (:

and Section 8.7.3 (Si

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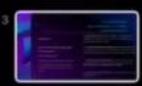
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Transitions

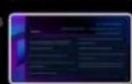


BlueWave Solar Overview 4













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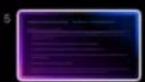


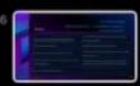


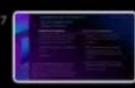














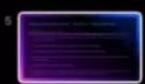
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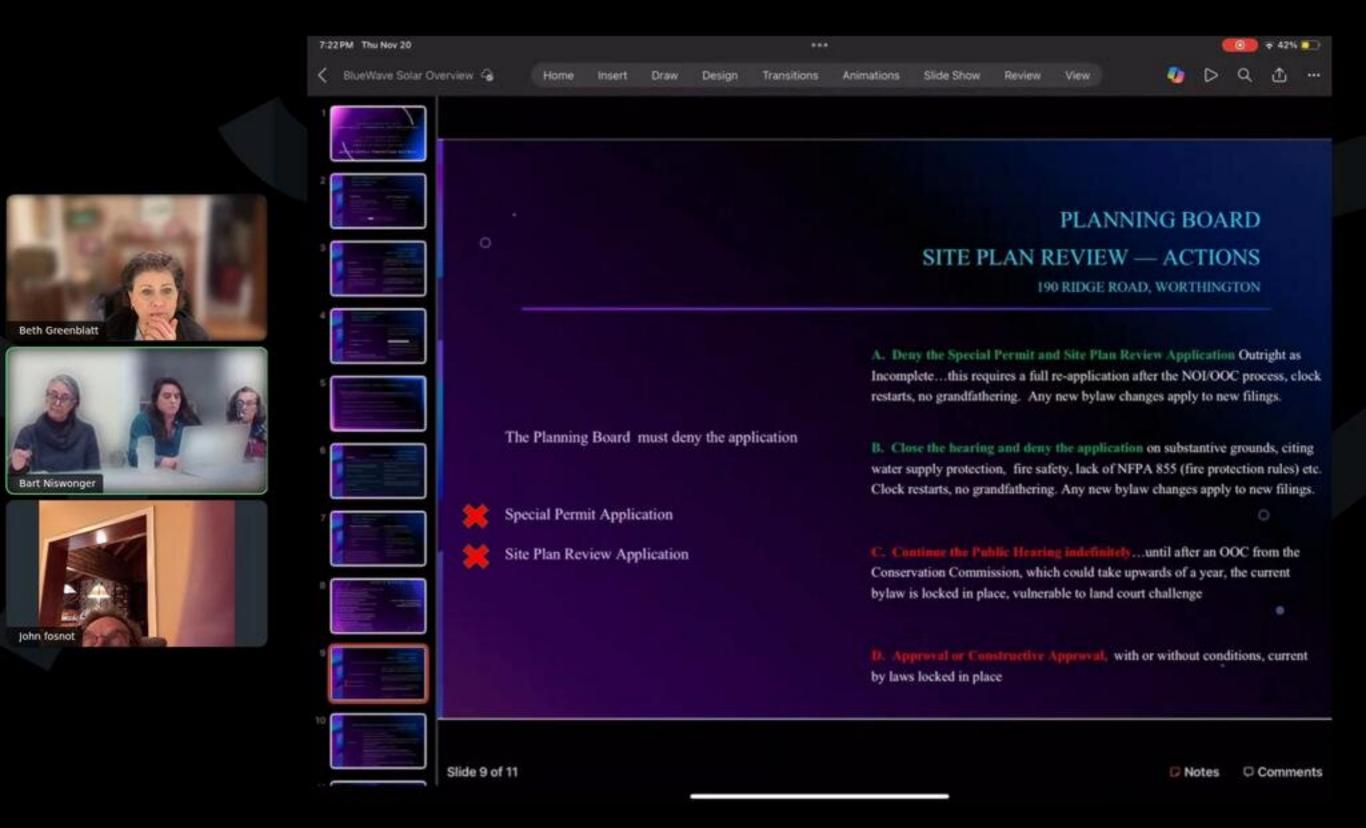
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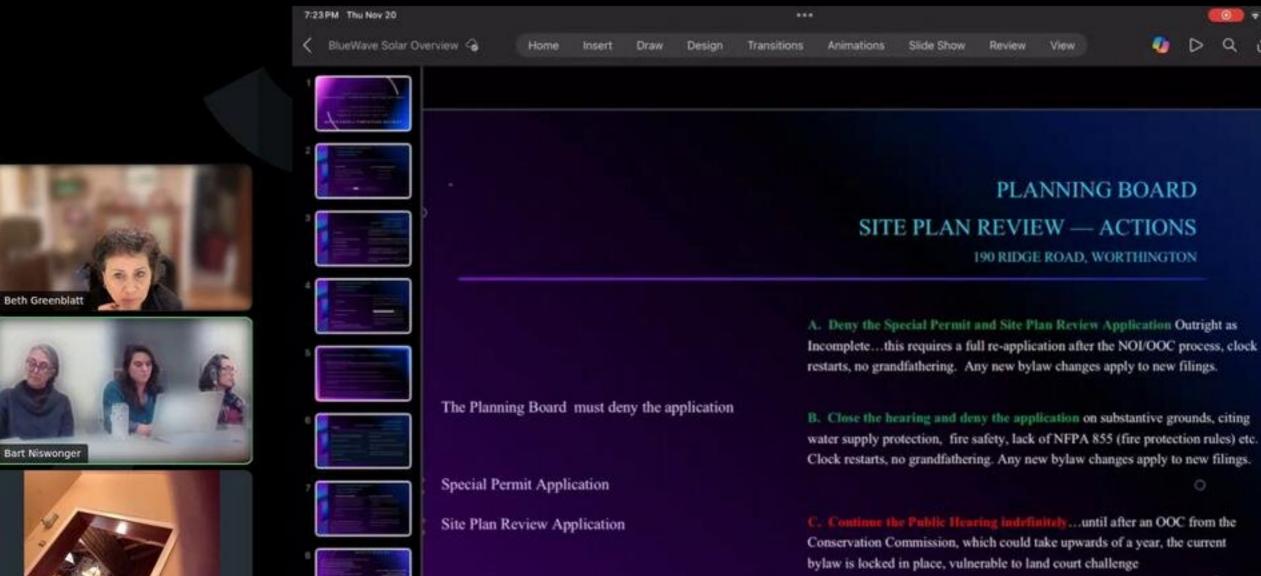
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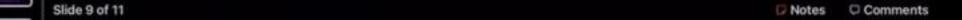


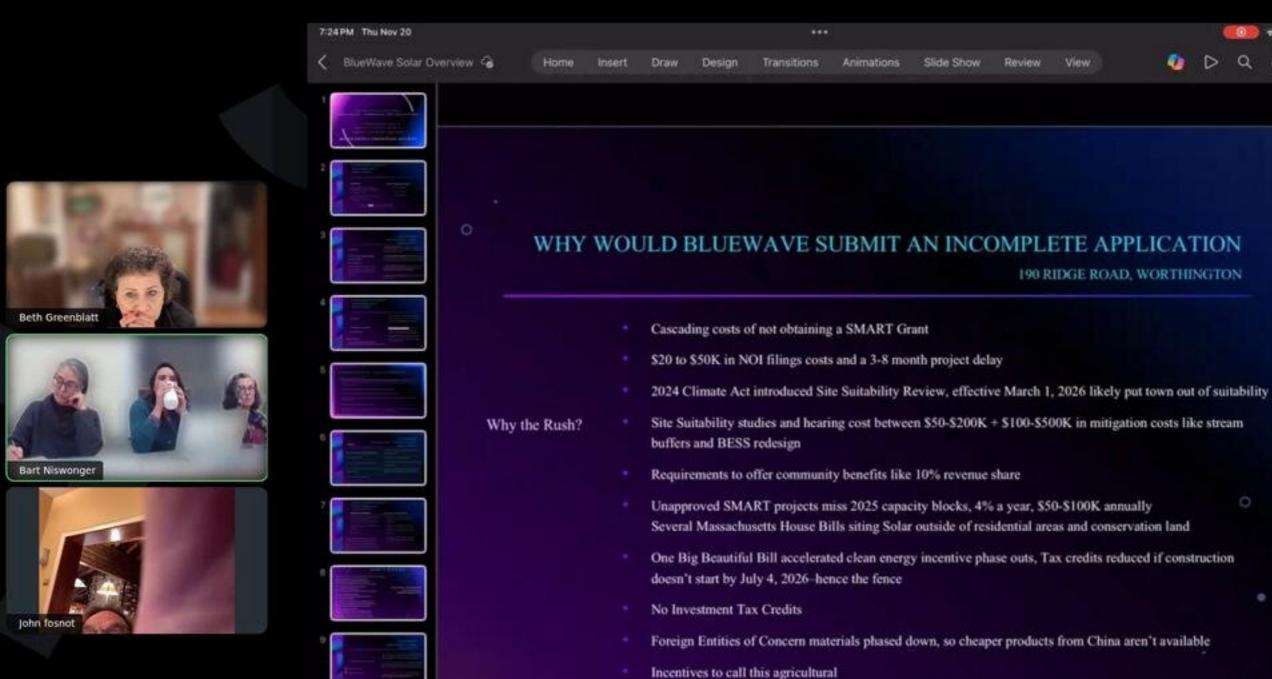


B. Close the hearing and deny the application on substantive grounds, citing water supply protection, fire safety, lack of NFPA 855 (fire protection rules) etc. Clock restarts, no grandfathering. Any new bylaw changes apply to new filings. C. Continue the Public Hearing indefinitely ...until after an OOC from the Conservation Commission, which could take upwards of a year, the current bylaw is locked in place, vulnerable to land court challenge D. Approval or Comstructive Approval, with or without conditions, current by laws locked in place

■ 41%

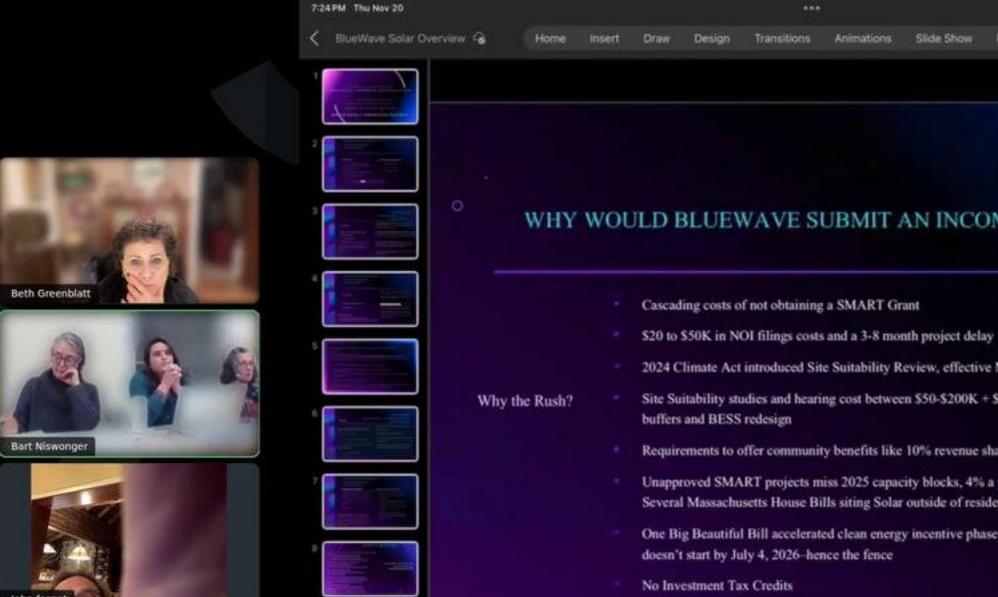
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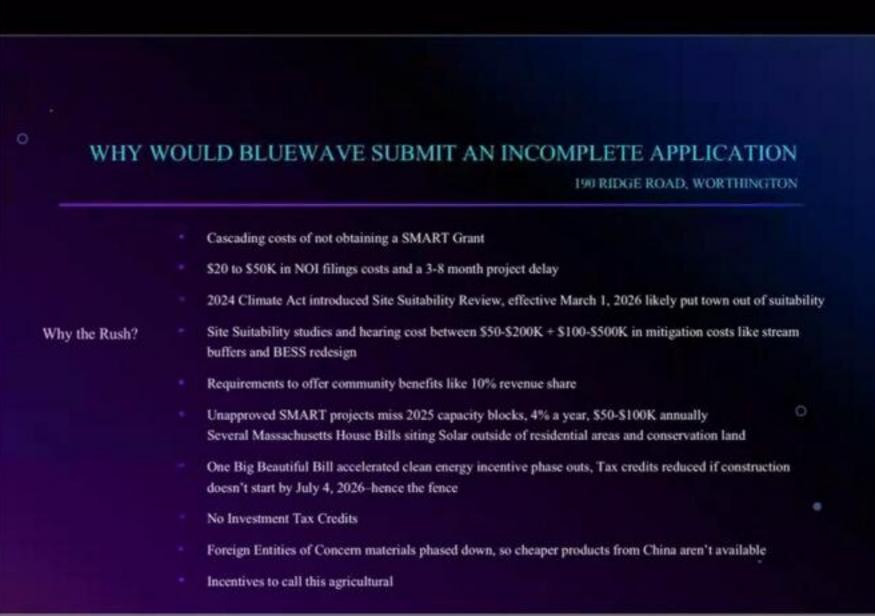


Slide 10 of 11 Comments

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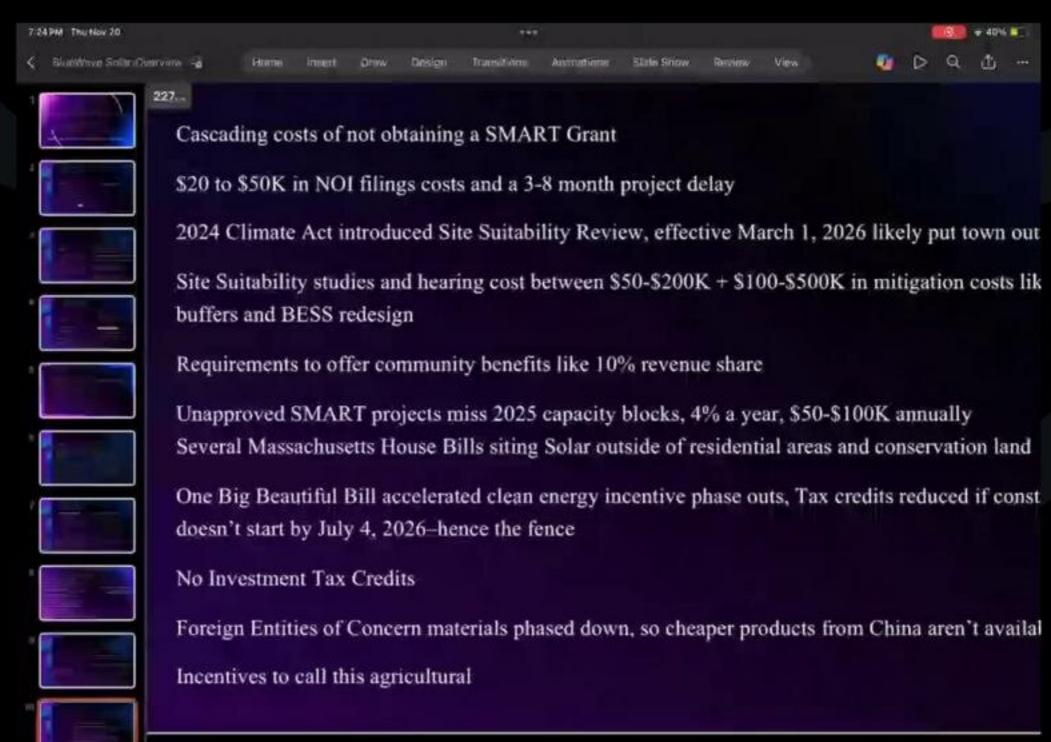
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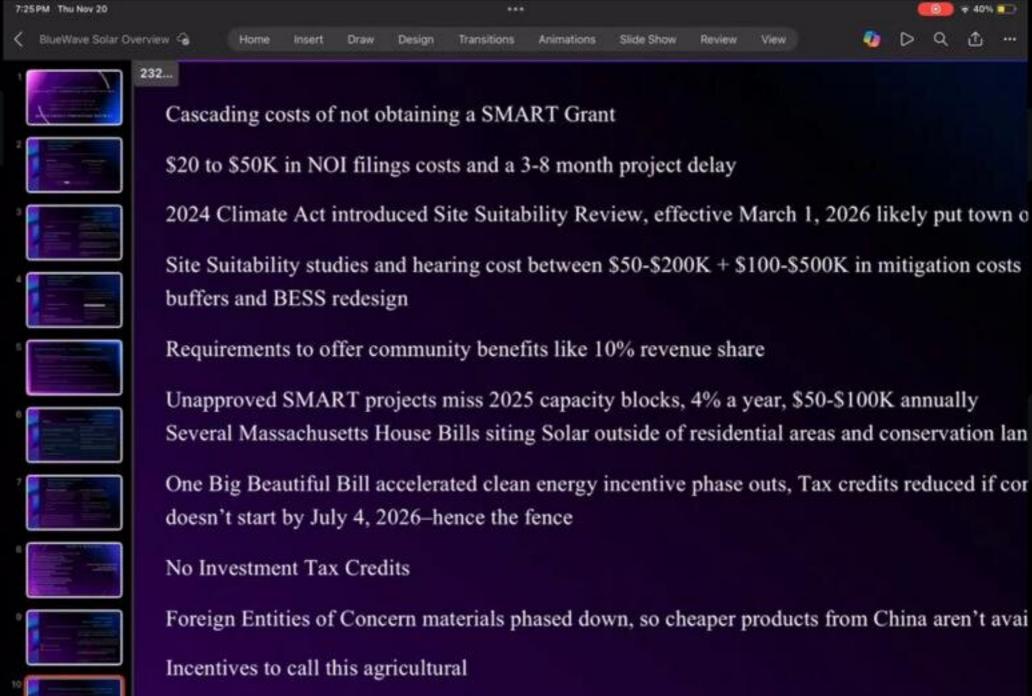
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Notes Comments



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Worthington has no paid mutual aid agreement for BESS fires

Fire Chief's authority is State Law, not local zoning.

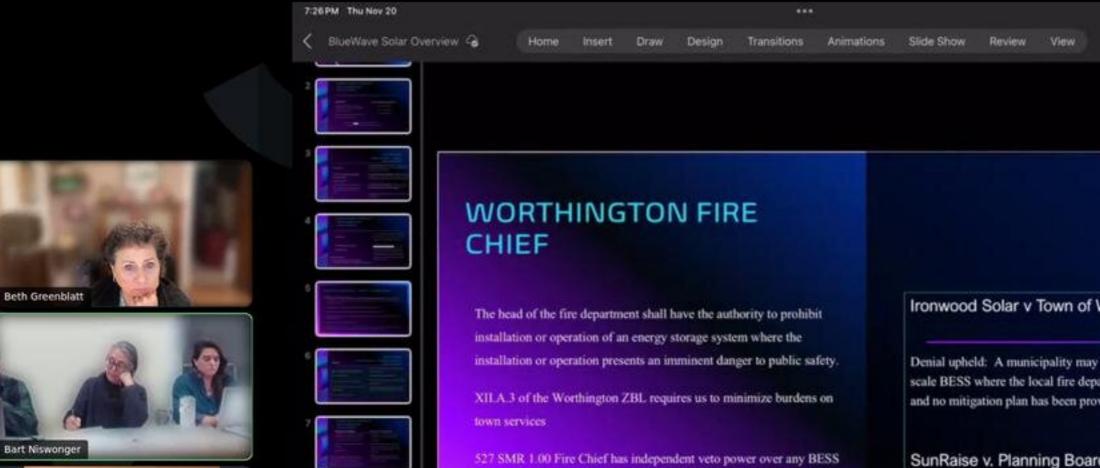
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Denial upheld: The absence of FD approval and the demonstrated inability of a volunteer department to manage a lithium-ion fire constitutes a valid exercise of local powers that survives



Slide 11 of 11 □ Notes □ Comments



>600kWh

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Ironwood Solar v Town of Westfield, 2024

Denial upheld: A municipality may deny site plan approval for a large scale BESS where the local fire department lacks the capacity to respond and no mitigation plan has been provided

SunRaise v. Planning Board or Princeton, Jan 2025

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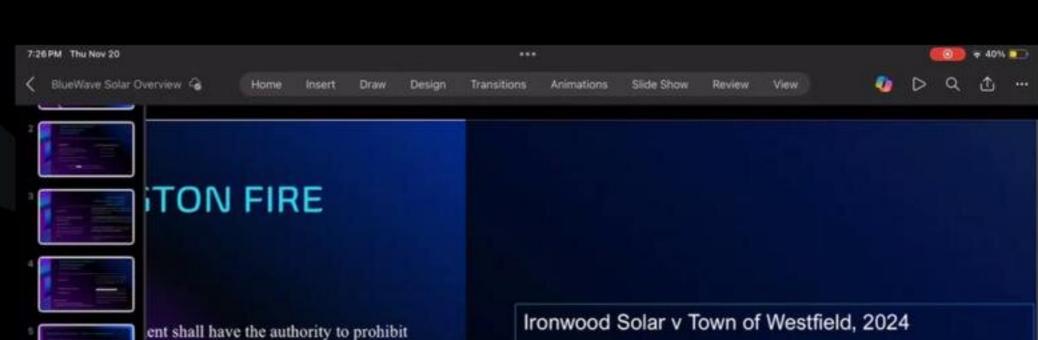
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Slide 11 of 11 □ Notes □ Comments







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Worthington