

MD ARWG FBEI TWG Policy Option Balloting Results

	Suggested Policy Option Name	FBEI Catalog Option No.	FBEI Catalog Adaptation Response Policy Option	Number of Votes	TWG Member Comments
High Priority for Analysis					
FBEI-1	Integrated Planning for SLR and Associated Coastal Hazards	2.1	Integrate critical area planning and zoning requirements with comprehensive planning laws, including emergency planning and infrastructure planning requirements to avoid SLR and associated coastal hazards	6	None
FBEI—1a	State and Local Coordination to Reduce Risks Associated With SLR and Associated Coastal Hazard	5.1	Establish a coordinating mechanism to assure that state programs and local governments act in concert to reduce future impacts from SLR and associated hazards	3	Sub-set of FBEI 1
FBEI—1b	Planning For Reduced Access Roads Provision and Maintenance	1.8	Implement strategies to address situations of changing ingress/egress to structures as support for access roads in areas vulnerable to sea level rise and associated hazards is withdrawn	1	Sub-set of FBEI 1 Addresses a specific coordination need with potentially broad impacts of retreat
FBEI--2	Mandate integration of MD CCC Findings and Recommendations Into All Appropriate State and Local Programs	5.4	Identify existing state and local programs that could be modified and /or strengthened to accommodate for climate change, SLR, and the MCCC recommendations and requirements.	4	Merged with 2.8 Clarify that the mandate is to support implementation of findings
		2.8	Incorporate findings of the MD Commission on Climate Change into existing government programs	3	
FBEI--3	New Design Standards, Building and Zoning Codes to Facilitate Retreat, Avoid SLR Risks, and Increase Resilience When Other	1.1	Implement new design standards, building and zoning codes to reflect the need for retreat from areas exposed to sea level rise and associated hazards	3	Combined 1.1.2.3,3.1, 3.3 Implement new design standards, building and zoning codes in a coordinated strategy designed to facilitate retreat from areas at increasing risk to SLR and associated coastal hazards, avoid
			Guide future development out of areas vulnerable to sea level rise and	3	

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	Strategies Are Not Viable	2.3	associated hazards		development in areas at risk, and increase ability to accommodate risks where retreat or avoidance are not viable strategies
		3.1	Establish a mechanism to evaluate and recommend new design standards for structures that may be vulnerable to SLR and associated hazards	2	
		3.3	Institute new hazard-resistant building codes and design standards to reduce vulnerability of structures to future sea level rise and associated hazards	2	
FBEI--4	Protect Undeveloped, Vulnerable Properties	1.6	Implement strategy to protect unused properties in areas vulnerable to sea level rise and associated hazards, potentially including purchase programs or easements	3	
FBEI--5	Climate Change and Insurance Commission	3.8	Create a climate change and insurance commission to evaluate the insurance ramifications of climate change risks	3	Combined with 5.22 to clarify need for action on this topic
		5.22	Implement a plan to address the insurance ramifications of climate change risk	2	Not sure that Commission provides sufficient institutional structure
FBEI--6	Monitor, Map, and Inventory SLR and Vulnerable Areas and Property	4.2	Create inventory of infrastructure vulnerable to future SLR and associated hazards	3	Adequate monitoring of SLR and associated vulnerabilities are fundamental information needs
		4.5	Assure adequate surveillance and monitoring of sea-level rise	2	
		5.12	Identify and map highly vulnerable and valuable areas	2	
FBEI--7	Evaluate Shoreline Protection Structures	4.8	Conduct a detailed analysis and inventories of the pros and cons of application of hard structural options (such as dikes, levees, floodwalls, and	2	Moved to the top tier because it seems to be a fundamental information need

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			saltwater intrusion barriers) and soft structural options such as dune restoration and creation, wetland restoration, creation, periodic beach nourishment, temporary barriers and other options		
FBEI--8	Economic Development Initiative	5.16	Create an economic development plan integrates climate change response and adaptation opportunities	1	Moved to top tier based on desire to address economic implications and the amount of discussion given in earlier calls
FBEI --9	Training and Capacity Building	5.6	Establish structured capacity building and training for key adaptation sectors including building trades, infrastructure, finance and insurance, landscapers and others	1	Combines 5.6-5.11 Training is important to successful implementation of other proposals
		5.7	Establish structured training and vocational support for trades and others involved in implementation of new design standards		
		5.8	Establish structured capacity building and training for public servants		
		5.9	Integrate climate change and adaptation issues into advanced training in university, community college, and technical training programs	1	
		5.10	Provide training for permit and planning agencies staff to address SLR and associated coastal hazards		
		5.11	Provide outreach and education to the broader population	1	

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Medium Priorities for Analysis					
FBEI --10		1.7	Implement retreat strategies for the management of existing structures or conditions that may become submerged hazards to navigation or public health (e.g. effluent outfalls, water intakes, septic fields, rockwalls, docks, and piers)	2	
FBEI --11		3.10	Ban any insurance of "critical risk" areas	2	
Low Priorities for Analysis					
FBEI --12		1.9	Develop and use insurance policies to drive and support retreat activities	1	
FBEI --13		2.2	Require that counties act on comprehensive planning requirements	1	
FBEI --14		2.4	End permitting of new homes in areas vulnerable to sea level rise and associated hazards	1	
FBEI --15		2.6	Strengthen existing critical area planning and implement requirements to address SLR and associated coastal hazards	1	
FBEI --16		2.6	Strengthen existing critical area planning and implement requirements to address SLR and associated coastal hazards	1	
FBEI --17		3.2	Design industrial systems to reduce vulnerability to future sea level rise and associated hazards	1	
FBEI --18		3.5	Storm-surge early warning system and adequate response, evacuation plan	1	
FBEI --19		3.11	Raise insurance rates in "vulnerable/at risk" areas	1	
FBEI --20		4.1	Investigate opportunities and innovations with potential to benefit the economy,	1	

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			public services, and business sectors		
FBEI --21		4.4	Create visualization tool for SLR and associated hazards	1	
FBEI --22		4.7	Assess financial impact of property value changes	1	
FBEI --23		5.21	Implement strategies to encourage and incentivize banks to invest in Maryland CC mitigation- related companies	1	
FBEI --24		1.3	Relocate of threatened structures	0	
FBEI --25		1.4	Implement a strategy for managing the retreat of (Small and large) ports and associated infrastructure, such as rail and roads	0	
FBEI --26		1.5	Modify engineering strategies and standards to manage the retreat of ports and other facilities, such as power plants, that need to be near the water	0	
FBEI --27		1.10	Implement a strategy to assure long-term public access to water	0	
FBEI --28		2.5	Minimize of paved surfaces and use of rees to reduce flooding	0	
FBEI --29		2.7	Implement a strategy to regularly update floodplain maps	0	
FBEI --30		3.4	Implement standards to assure the survivability of buildings exposed to periodic inundation	0	
FBEI --31		3.6	Raise shoreline structures	0	
FBEI --32		3.7	Create standards for floating piers	0	
FBEI --33		3.9	Develop a statewide insurance pool	0	
FBEI --34		3.12	Create supplementary requirements to the NFIP Community Rating System	0	
FBEI -35		3.13	Modify of land use, agricultural , and landscape practices including aquaculture, saline-resistant crops, depending on location and purpose	0	
FBEI --36		3.14	Implement a plan for sharing of sand between communities	0	

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FBEI –37		3.15	Redefine or create state level definition of coastal barrier system under the Federal CBRS limits	0	
FBEI –38		4.6	Investigate potential and limitations of eminent domain, vesting, grandfathering, and amortizing strategies to support retreat activities	0	
FBEI –39		4.9	Evaluate the potential risks and opportunities to a ferry system (incl. public transportation and emergency planning)	0	
FBEI –40		4.10	Research to update guidance on landscaping, including a climate zone map	0	
FBEI –41		4.11	Investigate the availability and distribution of sand resources for beach renourishment	0	
FBEI –42		4.12	Investigate the potential need for replacing/backfilling resources lost due to SLR (e.g., wells lost to ground water intrusion)	0	
FBEI –43		5.2	Synchronize future design with emergency planning infrastructure requirements	0	
FBEI –44		5.3	Increase coordination among existing planning and development entities	0	
FBEI –45		5.5	Increase consistency in definition of what is considered a “critical” area to include all areas and resources threatened by SLR and associated coastal hazards	0	Related to early priorities
FBEI –46		5.13	Map the vulnerable surface and ground water resources	0	
FBEI –47		5.14	Identify and modify state programs relying on shoreline or vulnerable area mapping to assure that they have plans to regularly update maps	0	
FBEI –48		5.15	Implement a state Revolving Loan Plan to finance state and local investments in CC adaptation and mitigation actions	0	

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FBEI -49		5.17	Create incentives for the private sector to invest in innovative approaches to adaptation	0	
FBEI -50		5.18	Create a culture of certainty on the economic opportunities in greening	0	
FBEI -51		5.19	Allow state pension plans to invest and fund climate change-friendly, local investments	0	
FBEI --52		5.20	Encourage private 401Ks to foster socially responsible investment (SRI) options for their members	0	

Revised titles and order (not ranked):

FBEI -1 Integrated Planning for SLR and Associated Coastal Hazards

FBEI - 1a State and Local Coordination to Reduce Risks Associated With SLR and Associated Coastal Hazard

FBEI - 1b Planning For Reduced Access Roads Provision and Maintenance

FBEI -2 Mandate integration of MD CCC Findings and Recommendations Into All Appropriate State and Local Program

FBEI - 3 New Design Standards, Building and Zoning Codes to Facilitate Retreat, Avoid SLR Risks, and Increase Resilience When Other Strategies Are Not Viable

FBEI - 4 Protect Undeveloped, Vulnerable Properties

FBEI - 5 Climate Change and Insurance Commission

FBEI - 6 Monitor, Map, and Inventory SLR and Vulnerable Areas and Property

FBEI - 7 Evaluate Shoreline Protection Structures

FBEI - 8 Economic Development Initiatives

FBEI - 9 Training and Capacity Building