



FY2018 Goal Implementation Team Projects Process for Project Funding and Request for Ideas



Proposal #17 (Climate WG)

Goal Implementation Team (GIT)	Climate Resiliency Work Group
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Proposed Project Title (10 words or less)	Indicator Project to Measure Jurisdictional Implementation of Climate Resilient BMPs and Other Similar Actions
Project Type	Metric/indicator development, and others as highlighted above
Proposed Outcomes	Indicator and corresponding implementation plan that tracks jurisdictions' activities that promote climate resilience.
Justification (500 words or less)	<p>Indicators are a critical part of the toolbox decision-makers can use to diagnose, develop and assess planning efforts. Two important uses for indicators are in: 1) identifying specific vulnerabilities and gaps in resilience about a specific objective, which allows targeted policies and practices to be defined; and 2) evaluating the effectiveness of adaptation actions or programs to achieve greater resilience.</p> <p>The Chesapeake Bay Program's Climate Resiliency Work Group initiated a project to develop a suite of indicators to track and analyze trends and impacts of climate change on the Bay. This effort is ongoing, and the focus is primarily on physical climate trends, ecological and societal impacts, and physical measures of progress toward resilience. As yet, there are no indicators that measure implementation of BMPs or associated policies/standards resilient to climate change in the Bay watershed. This project builds on the existing set of indicators to include measures of jurisdictional actions to increase resilience to climate change. This proposal also addresses a recommendation to develop metrics that track BMP effectiveness under climate changes, found in the recently-completed STAC workshop report: "Monitoring and Assessing Impacts of Changes in Weather Patterns and Extreme Events on BMP Siting and Design."¹</p> <p>The outcome will be an indicator that tracks progress achieved by Bay jurisdictions that will be selected through outreach to and consultation with Bay stakeholders, and in accordance with the 2014 Bay Agreement and the recently-adopted programmatic climate policy for Phase III WIPs. Metrics used to support this indicator may include at the scale of individual jurisdictions the extent of climate resilient practices implemented, e.g., certain green infrastructure; revised design storm standards for</p>

¹ Johnson, Z., S. Julius, J. Fischbach, M. Bennett, B. Benham, D. Sample, and K. Stephenson. 2018. Monitoring and Assessing Impacts of Changes in Weather Patterns and Extreme Events on BMP Siting and Design. STAC Publication Number 18-004, Edgewater, MD. 48 pp.

	stormwater BMPs; policies that incorporate consideration of climate change in siting and design decisions; certain types of land protection; or policies that promote co-benefits that support human community resilience to climate impacts.
<u>Proposed Project Steps and Timeline</u>	A Steering Committee will be formed with Jurisdictional and Bay Program representation, scientists and engineers, managers, and other stakeholders. The Steering Committee will recommend materials to be developed on potential indicators related to jurisdictional actions (policies, standards, practices) that could be taken to increase resilience to climate change and that are feasible to measure. Using these materials, the Steering Committee will conduct a survey to gather stakeholder priorities for measuring resilience and identify existing resources to support development of an indicator. This information will be used as background for a workshop to be held in FY19 with the goal of designing and implementing a final indicator. The Steering Committee will develop the workshop agenda and, in addition to conducting a survey, will initiate several months of targeted stakeholder engagement to recruit workshop participants and opportunities for collaboration to support development of the indicator. The steering committee will plan and coordinate the two day-long workshop to take place in the first half of 2019 and will be led by a qualified facilitator. Workshop participants will discuss and define the Climate-Resilient Indicator and associated metrics. The participants will also draft a proposal for data collection and analysis, considering long-term feasibility for implementation. Following the workshop, the steering committee, the qualified facilitator, and other interested stakeholders will produce a workshop report that will serve as a roadmap for implementing a Climate-Resilient BMP Indicator.
<u>Estimated Costs</u>	\$75,000
<u>Cross-Goal Benefits</u>	Climate Resiliency, Water Quality, Vital Habitats, Healthy Watersheds
<u>Proposed GIT Technical Project Lead</u> (name and email)	Susan Julius (julius.susan@epa.gov)
<u>FOR REVIEW</u>	
<u>OVERALL COMMENTS:</u>	<p>The project idea is not very clear for this request. What are the outputs? If I am inferring correctly, the outputs is a tool/methodology made for local jurisdictions that will help them identify if a BMP (existing or new) is climate resilient and then offer a way for this local jurisdiction to track all of their BMPs. Then the idea would be to track this information over time and evaluate the trends see how the local jurisdiction is doing in terms of increase or decrease of climate resilient BMPs over time. This trend tracking would then be an indicator of the increase or decrease the overall climate resilience of the jurisdiction. Is this correct? If so, this project idea should be re-written in plain terms to describe this.</p> <p>If the above idea is true, there seems to be some gaps in the work. Do jurisdictions even understand why climate resilient BMPs are important? Has outreach been done on this? The need for jurisdictions to incorporate climate resilience into phase III WIPs may provide some level of urgency to use a tool like the one being proposed, but will the local leadership have the knowledge base to understand what is being proposed in this project?</p> <p>From above: <i>"The project will build upon the preliminary development of a "BMPs and Green Infrastructure" indicator through the ongoing "Climate Change Indicators Project" led by Bay Program's Climate Resiliency Work Group, as well as the</i></p>

Commented [sj1]: My question is whether I can be this person? I do have the green light to participate/be technical lead, but it says the Technical Project Lead is the *GIT* TPL. I'm not a member of any GIT. And, I'd rather not be the one to administer the contract anyway. Maybe check with Mark???

	<p><i>recently-completed “Monitoring and Assessing Impacts of Changes in Weather Patterns and Extreme Events on BMP Siting and Design” study led by the Science and Technical Advisory Committee.” – if this work is chosen to move on to the RFP stage, these reference documents need to be more formal/pointed to in a way that is accessible to potential bidders. As it is written, only people in the inner circle of this work will understand these references.</i></p> <p>Consider adding a component to the workshop that talks about long term sustainability of the project – does some entity collect the larger set of data?</p> <p>This project will need a GIT lead identified before moving forward.</p>
<u>ADDITIONAL RESOURCES/STUDIES/PROJECTS TO CONSIDER:</u>	