

Climate Resiliency and Adaptation for Tribal Communities

Tribal lands across the United States face unique environmental challenges due to climate change, impacting their cultural heritage and natural resources. Tidal Basin is your dedicated partner, offering strategic approaches to climate adaptation that integrate traditional ecological knowledge with modern technological solutions to safeguard Tribal lands, resources, and communities.

With decades of extensive experience in disaster and emergency management, our seasoned experts stand ready to partner with you and help you build resilience so your communities are ready to face the future with confidence.

Cultural Competency

The Tidal Basin team has a deep understanding of and respect for indigenous histories and traditions, honoring tribal sovereignty, governance structures, and cultural practices to ensure our solutions are aligned with your community's needs.

Climate Expertise

We evaluate climate risks like sea-level rise, extreme weather, and long term environmental changes. Our experienced urban and land use planners integrate natural solutions such as wetland restoration and eco-based adaptation strategies to strengthen infrastructure in communities, ensuring resilience to future impacts of climate change and natural disasters.

Preparedness Planning

Tidal Basin's proven preparedness strategies combine national guidance and industry best practices with local insights, ensuring inclusive, sustainable planning. Our data-driven solutions integrate sustainability practices to promote long term environmental and economic viability.



Preparedness



Response



Recovery



Mitigation

At Tidal Basin, we support your efforts to safeguard Tribal lands, resources, and communities through effective and impactful climate adaptation planning and project implementation measures.



Resiliency and Adaptation Solutions

Tidal Basin takes a strategic approach to mitigating climate change impacts on Tribal lands, emphasizing the integration of traditional ecological knowledge and modern technology.

Key strategies include:

Challenge	Solution
Understanding Environmental Challenges	Conducting climate risk assessments to effectively address threats like rising temperatures and sea levels, extreme weather, and precipitation shifts, crucial for preserving cultural heritage.
Integrating Traditional Knowledge	Leveraging Indigenous land management practices such as controlled burns and rotational farming to enhance resilience, with active community involvement in decision-making to honor cultural values.
Modern Technological Solutions	Implementing advanced climate monitoring systems and renewable energy sources like solar and wind to reduce fossil fuel dependency and increase sustainability.
Planning and Project Implementation	Conducting vulnerability analyses and risk assessments to identify the most at-risk populations, ecosystems and infrastructure within Tribal territories. We prioritize interventions and enhance infrastructure resilience against extreme weather through improved defenses and erosion control.
Sustainable Resource Management	Promoting water conservation methods and biodiversity protection through rainwater harvesting and habitat restoration to maintain ecological diversity.
Policy and Governance	Ensuring adaptation strategies align with Tribal governance and legal frameworks, fostering partnerships for funding and support.
Education and Capacity Building	Developing training programs and educational materials to arm Tribal members with climate science skills. We also implement outreach initiatives to heighten awareness of climate impacts, particularly engaging younger generations to ensure ongoing resilience. These efforts seamlessly merge traditional practices like ceremonies and storytelling with modern platforms such as e-newsletters and social media for comprehensive community engagement.
Monitoring and Evaluation	Establishing performance metrics and adaptive management systems for ongoing strategy refinement.

Additional Solutions

The Tidal Basin team excels in developing grant applications that bolster tribal climate resilience and adaptation. We have a proven track record in facilitating successful applications for programs such as FEMA's Building Resilient Infrastructure and Communities (BRIC), Hazard Mitigation Grants, the Indian Community Development Block Grant (ICDBG) Program, and the Indian Housing Block Grant (IHBG) Program.

Our comprehensive services encompass every stage of project implementation, including design and development, contractor procurement, compliance and permitting, application updates, as well as construction oversight and monitoring. This holistic approach ensures that each mitigation project is executed seamlessly and effectively, reinforcing our clients' efforts to adapt and thrive in the face of climate challenges.

tidalbasingroup.com

For more information on our program support, contact Tidal Basin today.



Michelle Burnett, CBCP, CEM, CFM
Assistant Vice President - Resilience, Mitigation, and Policy
michelle.burnett@tidalbasingroup.com



Kymmie Scott, CEM
Project Manager and Tribal Relations Specialist
Resilience, Mitigation, and Policy
kymmie.scott@tidalbasingroup.com

