STONE ENVIRONMENTAL

Climate Resiliency Services

Helping Vermont communities adapt, plan, and build for a changing climate with actionable, science-based solutions.

Why Stone?

Interdisciplinary Approach

Climate change is a complex issue needing nuanced understanding of interrelated systems. Our team unites experts in GIS, water resources, agricultural stewardship, contaminant fate, and community planning to holistically address climate impacts and solutions.

Local Expertise and Experience

Based in Montpelier, we are familiar with Vermont's unique environmental, social, and political context. Stone staff live, work, and play throughout the State and are deeply invested in helping to build resilient communities.

Scientific Integrity

We support our clients in making informed, sciencebased decisions. We apply rigorous science, robust datasets, and advanced modeling tools to develop actionable, defensible solutions, including data visualizations, engaging maps, and integrated web applications and tools.

Community-Based Approach

We center the voices and experiences of frontline communities to ensure our work is responsive, inclusive, and impactful. We bridge community engagement and planning with science and engineering expertise.

Our Services

- >> Nature-Based Solutions
- Stormwater & Watershed Master Planning
- Flood Resiliency Planning, Engineering, and Design
- Adaptive Reuse of Brownfield Sites
- Risk & Vulnerability Assessments
- Hydrologic & Hydraulic Modeling

- >> Agricultural Stewardship
- GHG & Climate Modeling
- Community Planning & Engagement
- Mapping & Geospatial Analysis
- >> Web Tool & Platform Development

Contact Us









Climate Resiliency Services



Project Spotlights



Black River Flood Resilience Plan

Stone is creating a flood resiliency plan for the Black River and its tributaries in Plymouth, Ludlow, and Cavendish. The project's goal is to establish a comprehensive flood resilience strategy that may incorporate various engineering solutions to minimize flood impacts. The flood resilience planning process includes public outreach, community engagement, identification and prioritization of flood mitigation projects, development of conceptual design plans, and the creation of a final, comprehensive flood resilience strategy.



Environmental Defense Fund Proximity Tool

Stone worked with the Environmental Defense Fund to develop the Internal Proximity Mapping Tool, a web application that provides insight into populations affected by local points of interest. The tool offers demographic summary statistics at the national, state, and county levels, helping to identify areas where disadvantaged populations may face a disproportionate impact from pollution sources. This resource is essential for assisting lawmakers in protecting at-risk communities and addressing environmental justice issues such as redlining.



Vermont Transportation Resilience Planning Tool

Stone worked with VTrans, a multidisciplinary team of consultants, and a variety of local, regional, and state agency partners to develop the Vermont Transportation Resilience Planning Tool (TRPT), a web-based dashboard designed to help integrate climate risk and transportation resiliency into VTrans' planning process and create a more resilient transportation network in Vermont. The TRPT, advanced via the Methods and Tools for Transportation Resilience Planning Project, is a publicly available tool (roadfloodresilience.vermont.gov) that combines river science, hydraulics, and transportation planning methods to help VTrans and project partners understand the vulnerability of their transportation systems and prioritize mitigation strategies to minimize the impacts of future damage in high-risk locations.



Renewable Solar Targeting Analysis

Stone conducted a geospatial analysis to identify suitable properties for development of solar installations across 35 counties in New York State. As part of this project, we developed targeting parameters, compiled data, and performed an in-depth geospatial and data analysis at the at the parcel level. Stone worked with the client to develop and refine targeting parameters for the analysis.

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