

NEW YORK STATE GIS ASSOCIATION

# 2017 GIS Applications Award FINALIST

## MICRO-HYDROPOWER CALCULATION TOOL

New York State contains over 6000 legacy dams with the potential to generate renewable electricity. Dam owners and stakeholders are confronted with significant challenges in determining the potential power generation and return on investment at each site. To assist in confronting this challenge, Benjamin Houston and his team at Spatial Analytix developed a web based Micro-Hydropower Calculation Tool to explore the process and potential for installing micro-hydropower systems across the State. The adaptive browser coupled with a graphical interface allows the end-user user to interactively select potential inlet and outlet locations for a hypothetical hydropower facility from a map. The application allows the end-user to manually input or dynamically calculate variables to generate an estimate for total annual power production and total annual revenue. This is vital for the initial screening and investment decisions for all small hydropower projects.

It is with great pleasure that we recognize Spatial Analytix for the achievements in their development of the Micro-Hydropower Calculation Tool.



Awarded: October 2017



Colin Reilly, President