



Signals and ITS Standalone Program

July 2023

General

In 2013, the Wisconsin State Legislature provided the ability for the State to appropriate funds for installation, replacement or rehabilitation of traffic signals and intelligent transportation systems (ITS) not incidental to another highway improvement in **Wisconsin Statute 84.06(13)**.

The Signals and ITS Standalone Program was established in 2013 to manage the appropriated funds for the purpose of addressing signals and ITS needs not incidental to another highway improvement project. The following sections describe the program and how projects are developed, evaluated, prioritized, and awarded.

Applicability

The SISP funds are available for projects with greater than fifty percent cost associated with traffic signal or ITS hardware and construction. All state (including Interstate) and connecting highways are eligible for program funds. Statewide or State maintained facility projects are eligible for full program funds. Maximum project award is limited to a total of \$1,250,000 per application.

Those projects on connecting highways are eligible for 90% program funds with a 10% cost sharing component from the maintaining agency. All funds are required to be encumbered within the fiscal year of award. Multi-year projects are eligible for program funds, however, must be released and encumbered within each designated fiscal year.

Project Identification & Development Resources

The SISP is focused on the installation, replacement or rehabilitation of traffic signals and ITS projects. Projects are developed by local, regional, or statewide Bureau of Traffic Operations (BTO) staff.

Project identification and development resources are available through the Transportation Systems Management and Operations Traffic Infrastructure Process (TSMO-TIP) which is an annual process to consider operational needs and potential solutions throughout the State. Needs identification and project benefit tools have been created to assist with project development. Although the process is primarily focused on ITS project types, the information can be used to assist with several project types.

Those projects required to be vetted through the TSMO – TIP must be supported by the sponsoring WisDOT region prior to applying for funding within the SISP. The following project types are identified within the program application and defined as follows. SISP program funds cannot be used to fund lighting, enhanced signs, decorative signal poles, decorative cabinets, or decorative signal infrastructure.

1. New Signal Installation – Install new traffic signal.
2. Signal Rehabilitation – Upgrade or replace existing signal infrastructure; construct minor geometric improvement.

3. Signal Retrofit – Install monotubes, flashing yellow arrows, or other safety improvements at existing traffic signal; install adaptive signal systems; replace TS1 cabinets and controllers.
4. Signal Retiming – Collect and evaluate data; develop signal timing plan; develop and implement corridor coordination plan. Municipal projects are not eligible for SISP funding to retime signals.
5. Intersection Communication – Construct and integrate fiber communication for signals; install and integrate wireless communication, including cellular modems and radios, for signals.
6. New ITS Device Installation – Install new ITS infrastructure, including cameras, backbone fiber, network equipment, etc.
7. ITS Device Rehabilitation – Upgrade, install or replace existing detection, controllers, battery backup, cameras, ramp meter LED's, etc.
8. System Software – Upgrade, install, or replace software.
9. Life Cycle Replacements - Replace existing end-of-life signals and/or ITS equipment components including cameras, controllers, LED's, etc. Municipal projects are not eligible for SISP funding to replace life cycle components.
10. Other – Examples include:
 - Performance Measures Applications
 - Research and Development Projects
 - CAV Deployments and Applications
 - Studies, Plans, and Evaluations

Project Application Process & Requirements

Application Cycle

The SISP applications are evaluated and awarded on a biannual cycle. Project applications are considered in the Spring and Fall prior to the disbursement of funds at the beginning of the following fiscal year which begins July 1st.

Application Submittal

The SISP application consists of general project information; explanation of anticipated benefits that will be provided by the proposed project; project cost and schedule information; project contact; and managerial support. Any other relevant information, such as maps, support documentation, etc., is requested to be attached to the application. Those projects that are required to complete a TSMO-TIP package should attach the supported documentation with the application as well.

Completed regional and connecting highway application forms should be submitted to the Regional SISP Liaison. The Region will consider all the applications for the upcoming funding cycle and rank the projects according to regional priority. It is critical that the municipality work with the Regional SISP Liaison to communicate the need for a particular project so that it is ranked accurately within the Region. Each Region will submit the applications and regional rankings by the deadline each application cycle. Municipalities may only submit two applications per calendar year (i.e.-2 applications in Spring, 1 application in Spring and 1 application in Fall, or 2 applications in Fall) for consideration.

Project Evaluation and Prioritization Process

The SISP evaluation and prioritization methodology is established to consistently and objectively appropriate funds. Projects are evaluated, scored, and prioritized by an evaluation committee. The

SISP Evaluation Committee is created each programming cycle with one representative from each Region as well as statewide representation from BTO, safety, and signals.

The Evaluation Committee reviews project applications and populates a prioritization matrix. The prioritization matrix is used to score projects based on set criteria which are weighted based on the intent of the Program and input provided the Evaluation Committee. The Evaluation Committee reviews each application and determines the appropriate score for each criterion. Scoring is based on evaluation criteria rubrics that provide a guide to the Committee for consistent scoring. The scoring criteria include:

- Mobility
- Accountability
 - Operations and Maintenance
- Preservation
 - Lifecycle Replacement
 - Energy and Environment
- Safety

The Evaluation Committee scores are compiled, reviewed, and discussed during a one-day Prioritization Workshop. The Evaluation Committee prioritizes the applications and considers any multi-year project commitments for the forthcoming fiscal year. The Evaluation Committee then recommends projects for award based on available program funding and the committee prioritization. Regional representatives are notified of project awards.

Project contacts are asked to prepare project work plans for those awarded projects in advance of funding disbursement. It is expected that project managers will prepare for project implementation in advance of the appropriation disbursement such that funds may be encumbered as soon as possible.

Project Funding

Approved statewide and regional SISP projects are funded with 100% Program funds. Sponsored projects on connecting highways are funded with 90% Program funds and a 10% match from local sources. Maximum project award is limited to a total of \$1,250,000 per application. In general, the municipal agency sponsoring the project application (the signee of the SISP Project Application Form) is responsible for paying the 10% match. The municipal agency responsible for the 10% match is also responsible for any costs over the project funding cap. Applicants have the flexibility to explore partnerships with other government agencies to share the responsibility of the required 10% match and any overages exceeding a project funding cap. It is important that the terms of any negotiated shared responsibility of a 10% match and any overages exceeding a project funding cap between the State and a municipality be codified appropriately in a State Municipal Agreement (SMA).

All funds must be encumbered by the close of the fiscal year of award. A change in scope after formal SISP approval must be approved through the scope change process.