



## STATE REVOLVING FUND LOAN PROGRAMS

### SUSTAINABLE INFRASTRUCTURE / GREEN INITIATIVES (SI/GI)

#### CHECKLIST

#### **I. SRF Loan Participant Information**

Participant Name: \_\_\_\_\_

Project Name/Location: \_\_\_\_\_

Date this list was last updated by the Participant: \_\_\_\_\_

The following list is provided as a resource for SRF Loan Programs participants and consultants. The SRF Loan Programs may accept components and technologies other than those listed below. Participants are encouraged to introduce additional sustainable infrastructure/green technologies for the SRF Loan Programs to consider. The SRF Loan Programs do not encourage, endorse or prescribe a method of construction, system design, technology or equipment. It is the participant's responsibility to obtain the necessary approvals and permits and properly design, build and effectively operate and maintain the proposed facilities covered in the Preliminary Engineering Report (PER). The SI/GI interest rate discount for each project will be determined by the SRF Loan Programs at SRF loan closing. For requirements and additional information regarding the 0.5% maximum SI/GI interest rate discount, please contact the SRF Loan Programs.

#### **II. Categories**

**Please mark, from the categories below, all the SI/GI components that are proposed for the project. In addition, please answer the following questions for each component under each category (1-4) in a separate attachment:**

1. Describe how the project will incorporate this component;
2. Provide the estimated additional cost associated with incorporating this component as part of the project;
3. If a component is marked N/A or unmarked, describe why it was not feasible or not considered.

##### **1. Energy Reduction/Alternative Source Components:**

- 1.1. Design reduces carbon footprint.
- 1.2. Site planning for facilities includes sustainable building components.
- 1.3. The design includes an energy reduction plan with at least a 20% reduction goal
- 1.4. Project utilizes a SCADA system to reduce energy consumption and enhance process control.
- 1.5. Fifty percent of the construction work uses clean fuel construction vehicles.

##### **2. Wetland, Water Reuse and Reduction Components:**

- 2.1. The project creates, restores or expands a wetland.
- 2.2. The project utilizes storm water capture/rain harvesting.
- 2.3. The project reduces water loss, infiltration & inflow, and recycles stream volumes.
- 2.4. The treatment facility incorporates water conservation and side stream reduction.

### 3. Site and Material Reuse Components:

- 3.1. New construction occurs on a previously disturbed area.
- 3.2. The design takes into account the deconstruction of the new facilities.
- 3.3. Offsite reuse of either treated wastewater or a biosolids treatment process significantly reduces residuals disposal.
- 3.4. The project beneficially utilizes recycled materials.
- 3.5. The specifications include an incentive clause for construction waste reduction, cut/fill earth work balance.
- 3.6. Low-impact construction technology is utilized to minimize impacts to the existing surface.

### 4. Life -Cycle Cost and Cost Effectiveness Analysis Component:

To properly evaluate a project's long-term costs a life-cycle cost comparison of feasible alternatives is strongly recommended. Total life-cycle cost for each alternative includes estimated costs associated with operation and maintenance (O&M) costs during the service life (20 years) discounted to its present value and added to the capital cost estimate, together known as Net Present Value (NPV)\*. The resulting NPV allows participants to assess the true cost of construction projects. The Participant may realize significant costs savings by choosing an alternative that requires fewer chemicals and less energy and manpower to operate.

- Prepare a comparison of the feasible alternatives for the project including proposed SI/GI components, NPV analysis, technical and operational reliability and environmental impacts. Consideration must be given for selection of alternatives acceptable to the public affected by the project.

*\*SRF Loan Programs will provide the participant/applicant an estimated interest rate to be used in the life- cycle analysis.*

### III. Proposed Additional SI/GI Component(s)

**Both items below must be checked if the project includes SI/GI component(s) not described in the above four categories:**

- An attachment is included that lists the proposed new components.
- An attachment is included that responds to the following for the proposed new components:
  1. Describe how the project will incorporate each component;
  2. Provide the estimated additional cost associated with incorporating each component as part of the project.

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