



# The American Recovery & Reinvestment Act of 2009



## **TIGGER Program**

April 1, 2009



## Outline

- Program Overview
- Program Information
- Description of Eligible Projects
- Project Proposals
- Evaluation Criteria
- Review & Selection
- Technical Assistance





## TIGGER Program

- Transit Investments for Greenhouse Gas & Energy Reduction Program
- \$100 million in discretionary funds appropriated by The American Recovery & Reinvestment Act of 2009 (ARRA)
- Grants are directed to public transit agencies for capital investments that will assist in reducing energy consumption, greenhouse gas emissions, or both, of public transportation systems.





## Summary

- \$100 Million in discretionary grants
- Grants to transit agencies for Capital Projects that either:
  - Reduce energy consumption, of the transit agency, or
  - Reduce greenhouse gas emissions of the transit agency, or
  - Reduce both energy consumption and emissions
- 100% Federal Share unless an applicant requests a lower share.
- Application procedures published on [www.grants.gov](http://www.grants.gov) & in the *Federal Register*.





## Federal Register

- Published March 24, 2009; [74 FR 12447](#)
- Program Outline
- Contact Information for FTA Regional & Metropolitan Offices
- Glossary of Terms
- Proposal Outline
- Project Measurement Guidelines
- Calculation Tables





# Energy Consumption



- Energy purchased directly by a public transportation system.
- Examples include: diesel fuel, compressed natural gas, and electricity purchased from power plants.
- The TIGGER Program focuses on the total energy savings of a project expected over its useful life.





## Greenhouse Gases (GHG)

- Gases that trap heat in the atmosphere expressed in metric tons of CO<sub>2</sub> equivalent.
- TIGGER Program focuses on direct emissions from public transportation systems (e.g., systems vehicles)
- Program does not include indirect emissions (e.g., third-party power plants) or displaced emissions (e.g., emissions from manufacturing transit equipment, waste disposal, etc.).
- TIGGER program focuses on the total greenhouse gas emission reductions of a project expected over its useful life.



## Project Proposals

- Incorporate proposed capital investment as well as the existing system, subsystem, facility, vehicle, or component that the investment will replace or be applied to.
- Project scope determines where measurement of energy reductions or emission reductions will take place
- Project scope must be directly related to the actual capital investment.





## Eligible Expenses

- Capital Expenses as defined in 49 U.S.C 5302(a)(1)
- Projects that will assist in the reduction of energy use or GHG emissions
- Excludes fleet expansion and fixed guideway extension





# Application Information

- **Due Date:** May 22, 2009
- **Who may apply:** Transit agencies or consolidated proposals submitted on behalf of transit agencies by other organization such as State Departments of Transportation.
- **How to apply:** Submit proposals to [FTA-TIGGER@dot.gov](mailto:FTA-TIGGER@dot.gov).
- **Proposal Amounts:** Each submitted proposal must request a minimum of \$2M but not more than \$25M.





## Proposal Amounts

- Each submitted proposal must request a minimum of \$2,000,000.
- Individual projects within a consolidated proposal may receive less than \$2,000,000.
- To ensure a variety of projects are funded, FTA has established a maximum grant amount of \$25,000,000.
- FTA will allow consolidated proposals from several transit agencies together to reach this \$2M or \$25M threshold





## Required Information

- Type of Proposal: Energy Reduction, GHG Reduction, or both
- Description of Scope
- Line Item Budget
- Expected Useful Life
- Project Time-line
- Supporting Data





# Supporting Data Example Sheet

TABLE 1—FOR ENERGY CONSUMPTION REDUCTION PROJECTS

A1. Agency.	A2. Total Agency Reported Energy Use.	A3. Total Agency Non-Reported Energy Use.	A4. Total Agency Energy Use.	Note: For some projects, the estimated total project energy savings as a percentage of the total energy use of the public transportation system will be less than one percent. In those cases the proposal may identify the total savings as less than one percent for E8 and need not fill in A2–A4.				
Agency X	xx .....	xx .....	xx .....					
E1. Project Scope (Title) ..	E2. Cost .....	E3. Estimated Project Useful Life.	E4. Project's Current Annual Energy Use.	E5. Project's Estimated Annual Energy Use.	E6. Project's Annual Energy Savings.	E7. Total Project Energy Savings.	E8. Total Savings as % of Total Use	
Project 1 .....	Project Cost ..	xx .....	xx .....	xx .....	E4–E5 .....	E5 X E3 .....	E7/A4	
Project 2 .....	Project Cost ..	xx .....	xx .....	xx .....	E4–E5 .....	E5 X E3 .....	E7/A4	
Project 3 .....	Project Cost ..	xx .....	xx .....	xx .....	E4–E5 .....	E5 X E3 .....	E7/A4	

TABLE 2—FOR GREENHOUSE GAS EMISSION REDUCTION PROJECTS

Agency name:						
G1. Project scope (Title)	G2. Cost	G3. Estimated project useful life	G4. Project's current annual CO <sub>2</sub> equivalent emissions	G5. Project's estimated annual CO <sub>2</sub> equivalent emissions	G6. Project's estimated annual CO <sub>2</sub> emission reductions	G7. Total project CO <sub>2</sub> emission reductions
Project 1 .....	Project Cost .....	xx .....	xx .....	xx .....	G4–G5 .....	G6 X G3
Project 2 .....	Project Cost .....	xx .....	xx .....	xx .....	G4–G5 .....	G6 X G3





## Sample Projects



- Replacement of existing buses with more energy efficient buses (Hybrid, Fuel Cell)
- Re-powering of existing buses





## Sample Projects

- Conversion to more efficient control technology vehicles (DC to AC)
- Construction or rehabilitation of transit system facilities





## Specific Evaluation Criteria

- **Energy Consumption** Projects
  - Total energy savings that are projected to result from the project
  - Total projected energy savings of the project as a percentage of the total energy usage of the public transit agency
- **Greenhouse Gas** Emission Projects
  - Total greenhouse gas reductions that are projected to result from the project.





# General Evaluation Criteria



- Return on Investment
- Project Readiness
- Capabilities of Applicant
- Degree of Innovation
- National Applicability





## Review & Selection

- Proposals Screened by FTA Staff
- FTA-led Multi-Agency Review Team will Score proposals
- Recommended Proposals forwarded to FTA Administrator
- Publish list and funding levels of selected proposals in *Federal Register*





## Grant Awards



- FTA will make awards to successful applicants through TEAM
- Administered through FTA Regional Offices
- Notification will be published in *Federal Register*





## Reporting Requirements

- Standard requirements identified in FTA Circular 5010.1D
- Requirements under the Master Grant Agreement
- Additional ARRA Reporting Requirements





## ARRA/TIGGER Reporting

- A recipient of TIGGER funds must report on an annual basis:
  1. Actual energy consumed within the project scope attributable to the investment
  2. Actual greenhouse gas emissions within the project scope attributable to the investment
  3. Actual annual reductions or increases in operating costs attributable to the investment





## Technical Assistance

- FAQs on [www.fta.dot.gov](http://www.fta.dot.gov)
- Working spreadsheet (calculator) at above website
- Questions pertaining to application should be addressed to FTA Regional or Metropolitan Offices; [http://www.fta.dot.gov/regional\\_offices.html](http://www.fta.dot.gov/regional_offices.html)
- General questions related to TIGGER should be addressed to Walter Kulyk, Director, Office of Mobility Innovation, at [walter.kulyk@dot.gov](mailto:walter.kulyk@dot.gov) or 202-366-4995.





**Questions**

**or**

**Concerns?**

