



The American Recovery & Reinvestment Act of 2009

TIGGER Program





Outline

- Program Overview
- Definitions
- Sample Projects
- Notice of Funding Availability





Transit Investments for Greenhouse Gas & Energy Reduction

- \$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.





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 CO₂ 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.



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





Notice of Funding Availability

- **Published:** March 24, available at www.fta.dot.gov
- **Comment Period:** Closed April 7
- **Proposal Due Date:** May 22, 2009
- **How to apply:** Submit proposals to FTA-TIGGER@dot.gov.





Notice of Funding Availability

- Project Proposals
- Eligible Recipients/Applicants
- Proposal Amounts
- Eligible Expenses
- Proposal Requirements
- Evaluation Criteria
- Review & Selection
- Grant Awards
- Reporting Requirements
- Technical Assistance





Project Proposals



- A project is the 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
- Should allow for before and after measurements.





Eligible Recipients/Applicants

Recipients: Public transportation agencies only

Applicants: Public transportation agencies, or consolidated proposals submitted on behalf of transit agencies by designated recipients, Metropolitan Planning Organizations, State Transit Associations, Transportation Management Associations or State Departments of Transportation.

Grants will be awarded for particular projects directly to public transportation agencies.





Proposal Amounts

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





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 expansions and fixed guideway extensions





Required Proposal Information

- Proposal Summary
- Applicant Information
- Project Information
- Project Measurement Information
- Project Measurement Summary
- Address Evaluation Criteria





Microsoft Excel Spreadsheet

Microsoft Excel - TIGGER Calculators

File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

112

1 Enter data or values in green-shaded cells as appropriate; blue values are calculated

2

3 A1. Agency Name: ---

4 A4. Agency Total Annual Energy Use from Sheet 1. 0 For each project - an agency can report either or both energy use or greenhouse gas reduction criteria

5

6 The Following can be used to calculate E1-E8 of Table 1 and G1-G7 of Table 2 of Appendix E

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8

9	E1. or G1. Project Title	E2. or G2. Project Cost (FTA TIGGER \$ only)	E3. or G3. Project Useful Life (yr)	E4. Project's Current Annual Energy Use (baseline) (MBTU ² /yr)	E5. Project's Estimated Annual Energy Use post-implementation (MBTU/yr)	E6. Project's Annual Energy Savings (MBTU/yr)	E7. Total Lifetime Project Energy Savings (MBTU)	E8. Total Project Lifetime Energy Savings as % of Total Agency Annual Energy Use	G4. Project's Current Annual CO _{2e} emissions (baseline) (tons/yr)	G5. Project's Estimated Annual CO _{2e} emissions post-implementation (tons/yr)	G6. Project's Annual CO _{2e} emissions reduction (tons/yr)	G7. Total Project Lifetime CO _{2e} Emissions Reductions (tons)
10						0	0	----			0	0
11						0	0	----			0	0
12						0	0	----			0	0
13						0	0	----	Whole numbers only		0	0
14						0	0	----			0	0
15						0	0	----			0	0



Specific Evaluation Criteria



- Energy Consumption
 - 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
 - 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 evaluate proposals
- Publish list and funding levels of selected projects in *Federal Register*





Grant Awards



- Successful proposals must then be entered in TEAM for review and award
- Administered through FTA Regional Offices





Reporting Requirements

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





ARRA/TIGGER Reporting

Recipients of TIGGER funds must report on an annual basis:

1. For energy projects: Actual energy consumed within the project scope attributable to the investment
2. For GHG projects: Actual greenhouse gas emissions within the project scope attributable to the investment
3. For both: Actual annual reductions or increases in operating costs attributable to the investment



Technical Assistance

- FAQs and Microsoft Excel Spreadsheet to develop Tables 1 and 2 of Appendix E on www.fta.dot.gov
- Application questions should be addressed to FTA Regional or Metropolitan Offices
- TIGGER program questions should be addressed to Walter Kulyk, Director, Office of Mobility Innovation, at walter.kulyk@dot.gov or 202-366-4995.





Questions

or

Concerns?



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