



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

REQUEST FOR PROPOSALS 2020 RECYCLING MARKET DEVELOPMENT GRANT PROGRAM

March 2, 2020 – June 1, 2020

Michigan.gov/MiRecycles



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The Michigan Department of Environment, Great Lakes, and Energy (EGLE) shall not discriminate against any individual or group, on the basis of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. Questions or concerns should be directed to EGLE, Office of Human Resources, P.O. Box 30473, Lansing, Michigan 48909.

I. GRANT INFORMATION

A. GRANT DESCRIPTION

In fiscal year (FY) 2020, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) will provide matching grants to supplement efforts to grow recycling markets and increase the use of recycled material.

Eligible Project types:

- Research and Testing
- Marketing
- Analysis, Data Collection, and Facilitation
- Sorting and Processing Equipment
- Recycled Content Product Commercialization and Use
- Targeted Partnership Projects

B. GRANT OBJECTIVES

Recycling market development includes:

- Creating new markets or expand existing markets for recycled materials.
- Stimulating demand for recycled materials and recycled content products.
- Assisting businesses that manufacture, market, and use recycled-content products.

Additionally, recycling market development helps to commercialize technologies to replace materials with recycled content, to improve the quality, increase the quantity, and grow demand for utilizing recycled materials in manufacturing or other uses. It also includes research and development of new uses for recycled materials.

Project proposals must describe how the project will increase the use of recycled material resulting in greenhouse gas reduction, jobs created, water saved, energy saved, waste avoidance, or other positive environmental and economic outcomes.

C. ELIGIBLE AND INELIGIBLE APPLICANTS

Eligible applicants are for-profit and non-profit businesses and organizations, cities, villages, townships, charter townships, counties, tribal governments, municipal solid waste authorities, resource recovery authorities, schools, health departments, colleges/universities, regional planning agencies, and any other business or organization located in Michigan.

All grant applicants must follow electronic submission and vendor registration requirements as requested by the program.

Applicants cannot appear on the Federal Debarment and Suspension List. The list can be searched through the federal System for Award Management (www.SAM.gov).

Be in good standing with EGLE programs. Within the 24 months immediately preceding the RFP:

- No EGLE grant terminated for cause.
- No demonstrated inability to: sign an agreement in a timely fashion, manage a grant, or meet the obligations in a project with EGLE.

Applicants selected for funding may be required to submit a comprehensive financial audit that was conducted within 24 months prior to the execution of the grant agreement. If a financial audit is not available or performed the likelihood of being selected for funding will be diminished.

All grant recipients are encouraged to register and enter program information within the Michigan Recycling Directory, the Recycled Materials Market Directory (RMMD), and/or the Michigan Materials Marketplace, as applicable, prior to submitting a reimbursement request. The Michigan Recycling Directory, the RMMD, and the Michigan Materials Marketplace are online recycling directories sponsored by EGLE.

D. ELIGIBLE RECYCLING MARKET DEVELOPMENT PROJECTS

The following Recycling Market Development categories are available for funding. The Applicant shall indicate a category for the project requesting grant funds.

1. Research and Testing

Projects in this category may request up to **\$50,000** for materials testing, equipment evaluation, certification, research, and other activities designed to be a step in the development of a new product containing recycled content or development of a technology that will result in the growth of recycling markets in Michigan by improving the quality or quantity of recycled material. Applicant must clearly describe how the research and testing will result in the development of recycled materials end-markets in Michigan.

2. Marketing

Projects in this category can request up to **\$50,000** for projects to increase to use of a recycled content product, inform consumers on the correct use and benefits of using the recycled content product, or train or inform users/vendors/clients on the benefits or use of the product. The applicant must clearly describe and quantify, how the results of the marketing effort will positively impact the use of recycled materials.

3. Analysis, Data Collection, and Facilitation

Projects in this category may request up to **\$100,000** for market analyses, data collection, evaluation, and facilitated interactive dialogue among key players in

the recycled materials value chain. The applicant must clearly describe and quantify how the project will result in stronger recycling markets in Michigan.

4. Sorting and Processing Equipment

Projects in this category may request up to **\$250,000** for sorting and processing equipment that will improve the quality of recycled materials for use in a Michigan end-use market. Examples include, but are not limited to, optical sorters, granulators, densifiers, etc. The applicant must clearly describe how the equipment will facilitate delivery to an end-market in Michigan.

5. Recycled Content Product Commercialization and Use

Projects in this category can request up to **\$400,000** for large scale projects that will result in a significant increase in use of recycled materials in a product made in Michigan. Projects may include research, testing, marketing, sorting and processing equipment, analysis, and data collection with the result being a product or use of recycled materials that results in substantial waste diversion. The applicant must clearly describe how the project will result in a significant increase in recycled materials use.

6. Targeted Partnership Projects

Projects in this category can request up to **\$100,000 with a 50/50 match** for market development activities led by trade organizations, manufacturers, national brands, or non-profits to achieve clear market development outcomes. Applicants must clearly describe and quantify how the project will leverage existing financial and technical resources to grow recycling markets in Michigan. It is anticipated that Targeted Partnership Projects will receive EGLE market development funds that will be added to existing funds for distribution to local market development initiatives. In addition to describing outcomes, the applicant must describe the due-diligence and financial management process for the Partnership Project.

Projects focused on glass, textiles, mixed plastics, film plastics and organics will receive preference, however, projects focused on any material category are encouraged to apply. Michigan based, circular economy projects that bring material back to the generators supply chain for use in new products, or projects that create recycling markets for materials collected in partnership with Michigan communities, businesses, and recyclers are encouraged.

E. ELIGIBLE/INELIGIBLE GRANT ACTIVITIES

The following activities are eligible under the 2020 Recycling Market Development Grant Program: materials testing and specification development, research and development of new products using recycled content, processing equipment needs, market analyses, marketing of products, usage guidance, use trials/pilots, and other activities that will result in increased use of recycled materials.

The following activities are ineligible under the 2020 Recycling Market Development Grant Program; this list may not be exhaustive:

- Administer projects that are a part of a grantee's regulatory responsibility.
- Implement other activities deemed inappropriate under contract management standards.
- Lobby or directly influence legislative decision-making.

F. FUNDING SOURCE AND GRANT AMOUNTS

The Recycling Market Development Grant program has up to \$2,000,000 available for grants in FY 2020. There are no requirements regarding the minimum amount of funding that can be requested. The maximum amount of funding that can be requested per grant is dependent on grant category but may not exceed \$400,000. Grantees are required to provide matching funds at least equal to 25 percent of the total grant budget (50 percent for Targeted Partnership Projects). Local match funding may be greater than 25 percent of the total grant budget. Grantees may be offered partial funding. Grants will be paid through a reimbursement process. EGLE may add or subtract money from this grant program at its discretion.

The funding for this program is made available through the Renew Michigan Fund created in Act 281 of 1967, The Income Tax Act of 1967, as amended.

All grant and matching funding may only be used for eligible items. Local match funding contributions can come from private, non-profit, foundation, municipal or other partners. Potential local match funding sources may include other grants, bond monies, loans, cash, public partnerships, public/private partnerships, etc.

All grant applicants must follow electronic submission and vendor registration requirements as requested by the program.

The applicant must submit a complete application by June 1, 2020, as described below in the section titled "Required Application Components."

G. PROJECT PARTNERS

Grant applicants are encouraged to form partnerships.

Projects that partner with national trade organizations, non-profits, and brands seeking to leverage significant funds for recycling market development in Michigan will receive selection priority.

H. SELECTION CRITERIA

The applicants will be selected based on the criteria listed below:

- The project goals are clearly stated, and success is quantitatively defined.
- Within the project area, the proposal supports the grant objectives outlined above.
- The proposal contains a clear and well-developed project narrative, work-plan, timeline, and budget.
- The applicant has demonstrated an ability to collaborate and partner with other groups and organizations, as applicable; and has secured the necessary support and commitments to accomplish the objectives of the proposal.
- The grant recipient must be able to enter into a legal agreement with the State of Michigan and must be in compliance and good standing with EGLE.
- The identification of additional match funding beyond the required 25 percent match amount.
- Projects that use the grant funds to secure other sources of capital (grants, loans, investment) or otherwise leverage the funds to gain additional support or investment.
- Projects with the best supporting data.
- Projects that demonstrate a long-term commitment.
- Projects that create circularity in the recycling market for Michigan businesses and/or communities. For purposes of this grant circularity means returning materials back to the manufacturing or use process by closing the loop and creating a system of material flow that enables resources to return for a second use.
- Projects that result in increased capacity to manage challenging materials streams or otherwise create increased demand for materials currently being disposed.
- Projects that demonstrate the largest measurable economic and environmental impacts, including greenhouse gas reduction, jobs created, water saved, energy saved, or other positive environmental and economic outcomes.

The matching fund amount must equal at least 25 percent of the total project budget. The matching fund amount can be greater than 25 percent of the total grant budget. The grant amount requested cannot exceed the amount identified in the grant category selected or \$400,000. If the match amount is divided by the total project budget, the result must be equal to or greater than 25 percent.

For example, if the grant amount requested is \$100,000, the match amount would have to be at least \$33,333.33, and the total project budget would be \$133,333.33.

During the grant review process, applicants may be contacted for clarification and for

the purpose of negotiating changes in project activities, timelines, and grant amounts, within the parameters outlined in the application instructions.

I. APPLICATION PROCESS AND EVALUATION CRITERIA

To be considered complete, an application must include all the components listed below, and the “Applicant Signatory” on the application cover sheet must be signed. Incomplete responses may result in a determination that the application is not eligible for funding.

a. Application Cover Sheet, Including Applicant Signature

Complete the application cover sheet form. The cover sheet will become page one of the application. Please number all pages consecutively.

b. Project Description

In no more than six pages, please provide the following information, in the order it is listed below. Number the pages and attach them to the application cover sheet (page one of the application.)

1. A title, and short description (100 words or less) of the project (note: this concise description will be used in reports and other documentation of the Recycling Market Development Grant Program).
2. Clear and realistic project goals and objectives, including a description of how the proposed project’s goals will increase recycling and result in quantitative positive economic and environmental outcomes, such as greenhouse gas reduction, energy saved, water saved, resources saved, jobs created, etc. These projected environmental and economic outcomes should be described in detail, including an explanation of the calculations, associated data, and how these outcomes will be measured throughout the project and beyond. Guidance on measuring environmental outcomes is included in the attached document titled “Measuring Environmental and Economic Impact of Recycling Market Development Projects.”
3. Description of current recycling activities.
4. Description of the planned recycling market development project.
5. Description of community support and/or partners for the grant project. Include any specific letters committing an amount of time, money, activities, or other specified resources for the project. Describe how/if the funding provided in this grant is leveraging additional investment from partners

6. Description of how the project will be sustained beyond the grant timeline.
7. Describe how the project will be evaluated, including how success will be defined and measured. A final report will be required, which must include quantitative and qualitative results, lessons learned, and recommendations for future actions.
8. Describe how evaluation results will be used and distributed, including any products that will result from the project.

c. Work Plan

In no more than three pages, please provide the following information presented by tasks (with sub-tasks as necessary). Include the name of the person who will be responsible for carrying out each task. Include any products and deliverables. Number the pages and attach them to the project description.

- Identify the tasks and responsible party for implementation of the market development project.
- Identify the tasks and party responsible for preparing quarterly progress reports and the final project report.

d. Timeline

In no more than two pages, please provide a timeline of activities, showing when each task described in the work plan will be started and completed. Number the pages and attach them to the work plan. The timeline should identify quarterly milestones that will be achieved.

The following key dates should be considered as the timeline is developed:

- Quarterly reports will be required on January 8, 2021; April 9, 2021; July 16, 2021; October 8, 2021; and January 14, 2022.
- The final report is due no later than February 28, 2022.

e. Budget

In no more than three pages, complete the Application Budget and Timeline Form and provide a narrative discussion, including the information below. Number the pages and attach them to the timeline.

- All costs identified in the Application Budget and Timeline Form must be eligible grant costs.
- Include a price quote for any item(s) to be purchased.
- Description of the source(s) of match funding to be used for the planned

expenses.

- Describe each task on the form, and provide the total cost for each task, breaking down the total cost by how much the grant will pay for that cost versus how much the grantee or partner will pay. If the project will be completed prior to February 28, 2022, write “None” in the table.
- The milestones and associated costs will be used to create the grant agreement and grant payment schedule.

J. APPLICATION SUBMISSION INFORMATION

Proposals must be submitted electronically, in one PDF file that contains the complete grant application, to **EGLE-RecyclingGrant@Michigan.gov** with the subject line “Market Development Grant – *Applicant Name*” Proposals that are sent in more than one electronic file may be disqualified.

Proposals are due no later than 4:00 p.m., June 1, 2020.

Each e-mail submission must be complete and will supersede any previous e-mail submissions. Please sign the cover page using blue ink and scan in color for each email submission.

Information provided in the application must be formatted to correspond with the application instructions. Headings responses must be consistent with the headings used in the instructions. Pages within the application must be consecutively numbered. The actual forms, or photocopies of the forms, as found in this application package, must be used.

For applications to be complete, applicants must submit letters of commitment, letters of partnership or support as applicable. Attachments may include price quote(s), photographs, environmental and economic impact substantiating information.

K. APPLICATION REVIEW PROCESS

Deadline for submittal of applications is June 1, 2020.

Grantees will be notified of their funding status once EGLE’s Director makes the final funding recommendations.

L. ASSISTANCE

For general inquiries regarding this RFP, please contact Erica Richard, Administrative Support Staff, Sustainability Section, Materials Management Division, EGLE, at 517-284-8337 or RichardE1@Michigan.gov

M. PROJECT CLARIFICATION/REVISIONS

During the grant review process, applicants may be contacted for clarification and for the purpose of negotiating changes in project activities, timetable, and grant amounts. EGLE reserves the right to award grants for amounts other than those requested and/or request changes to, or clarification of, the proposed work plan.

N. NON-DUPLICATIVE PROGRAMS

Funds from the 2020 Program cannot be used to supplant federal, state, or local financial commitments.

O. ACCEPTANCE OF PROPOSAL CONTENT

Successful applicants will be required to enter into a grant agreement with EGLE after accepting the grant award. A grant agreement consists of standard boilerplate language, the applicant's work plan, timetable, and budget.

Successful applicants may be required to review the grant award agreement with EGLE staff prior to final agreement acceptance. The draft agreement boilerplate is attached to this RFP as Appendix A.

Failure of a successful applicant to accept the obligations outlined in the final agreement boilerplate may result in withdrawal or cancellation of the grant. EGLE reserves the right to offer partial funding for any grant proposal.

P. CONFIDENTIALITY

All information and materials regarding this grant are subject to the Freedom of Information Act. If the grantee selects to provide business sensitive information that may be exempt from disclosure under The Freedom of Information Act, Act 442 of 1976 **Legislature.Mi.Gov/doc.aspx?mcl-15-243** the applicant shall clearly describe the reason for the requested exemption and identify the information for which the exemption is requested.

Q. GRANT AGREEMENT REQUIREMENTS FOR APPROVED APPLICANTS

Successful applicants will be required to enter into a standard grant agreement with EGLE. Project costs incurred prior to entering into an agreement signed by both parties will not be reimbursed. There will be limited opportunities for negotiation prior to entry of a grant agreement. Opportunities to modify a signed agreement will also be limited.

Failure of a successful applicant to accept the obligations outlined in the standard agreement may result in withdrawal of the grant. EGLE reserves the right to offer partial funding for any approved applicants. If partial funding is offered to an approved applicant, the applicant will be required to provide the necessary matching funds needed to complete the project. The original application becomes part of the grant agreement, along with changes that may occur during contract negotiation. Additional

requirements relevant to an individual project may be specified in the grant agreement. The grant agreement will stipulate a project period during which the project must be completed, and all expenditures must be made. Successful applicants (grantees) must be prepared to agree to the following minimum agreement conditions:

Grant reimbursements will be for identified expenditures in the grant agreement, not to exceed the awarded grant amount, less a 5 percent retention amount that will be released upon approval of the final report. Reimbursement requests must be submitted by February 28, 2022. The final project report is due February 28, 2022. Grantees must agree to supply data related to the project for up to five years from the project end date as requested by EGLE.

Grants are paid through a reimbursement process. All grantees will submit proof of payment (i.e., canceled checks, ACH, wire transfer confirmations, bank statements, etc.) and proof of receipt of goods to EGLE proving that the vendor has been paid prior to receiving reimbursement from the grant program. Reimbursement may be requested quarterly in conjunction with required progress reports.

All publicity products shall acknowledge that the project was supported in whole or in part by EGLE Recycling Grant Program. Where possible, these products should be printed double-sided on recycled content paper.

Agreement Boilerplate Language: See attached standard Grant Agreement language in Appendix A.

II. APPENDIX A

**DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
RECYCLING MARKET DEVELOPMENT GRANT APPLICATION COVER SHEET**

Applicant Name:	
Project Title:	
Project Summary:	
Category: <input type="checkbox"/> Research and Testing, <input type="checkbox"/> Marketing, <input type="checkbox"/> Analysis, Data Collection, Facilitation, <input type="checkbox"/> Sorting and Processing Equipment, <input type="checkbox"/> Recycled Content Product Commercialization and Use <input type="checkbox"/> Targeted Partnership Projects	
Street Address:	
City/State/Zip/County:	
Contact Person and Title:	
Contact Person's E-Mail Address:	
Contact Person's Telephone Number:	
Grant Amount Requested:	\$
Match Amount (must be equal to or greater than 25 percent of the total grant budget):	\$
Total Grant Budget:	\$
DUNS Number:	State Senator:
Federal Identification Number:	State Representative:
Applicant Signature (application must be signed by the person accepting responsibility for the terms and conditions of the grant agreement if awarded):	
 Print Name: _____	
 Signature: _____	
 Date: _____	

TASKS TO BE COMPLETED BY JULY 16, 2021

Line No.	Task	Expense amount paid by grant	Expense amount paid by grantee or partner	Total task cost
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$

Grant Amount Requested	Matching Fund Amount	Total Quarterly Project Budget
\$	\$	\$

TASKS TO BE COMPLETED BY OCTOBER 8, 2021

Line No.	Task	Expense amount paid by grant	Expense amount paid by grantee or partner	Total task cost
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
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		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$
		\$	\$	\$

Grant Amount Requested	Matching Fund Amount	Total Quarterly Project Budget
\$	\$	\$



PROGRAM NAME GRANT AGREEMENT
BETWEEN THE
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AND GRANTEE NAME

This Grant Agreement ("Agreement") is made between the Michigan Department of Environment, Great Lakes, and Energy (EGLE), **Division** ("State"), and **Name of Grantee** ("Grantee").

The purpose of this Agreement is to provide funding in exchange for work to be performed for the project named below. The State is authorized to provide grant assistance pursuant to [**Name of Legislation, Year and Public Act No.**] Legislative appropriation of Funds for grant assistance is set forth in [**Year and Public Act No.**] This Agreement is subject to the terms and conditions specified herein.

Project Name: _____ Project #: _____
 Amount of grant: \$ _____ % of grant state \$ _____ / % of grant federal _____
 Amount of match: \$ _____ = _____% PROJECT TOTAL: \$ _____ (grant plus match)
 Start Date (date executed by EGLE): _____ End Date: _____
 [unless alternate date specified]

GRANTEE CONTACT:

STATE'S CONTACT:

Name/Title

Organization

Address

Address

Telephone number

Fax number

E-mail address

Name/Title

Division/Bureau/Office

Address

Address

Telephone number

Fax number

E-mail address

Federal ID number – (Required for Federal Funding)

Grantee DUNS number - (Required for Federal Funding)

The individuals signing below certify by their signatures that they are authorized to sign this Agreement on behalf of their agencies and that the parties will fulfill the terms of this Agreement, including any attached appendices, as set forth herein.

FOR THE GRANTEE:

Signature Date

Name/Title

FOR THE STATE:

Signature Date

Name/Title

DRAFT

I. PROJECT SCOPE

This Agreement and its appendices constitute the entire Agreement between the State and the Grantee and may be modified only by written agreement between the State and the Grantee.

(A) The scope of this project is limited to the activities specified in Appendix A and such activities as are authorized by the State under this Agreement. Any change in project scope requires prior written approval in accordance with Section III, Changes, in this Agreement.

(B) By acceptance of this Agreement, the Grantee commits to complete the project identified in Appendix A within the time period allowed for in this Agreement and in accordance with the terms and conditions of this Agreement.

II. AGREEMENT PERIOD

Upon signature by the State, the Agreement shall be effective from the Start Date until the End Date on page one. The State shall have no responsibility to provide funding to the Grantee for project work performed except between the Start Date and the End Date specified on page one. Expenditures made by the Grantee prior to the Start Date or after the End Date of this Agreement are not eligible for payment under this Agreement.

III. CHANGES

Any changes to this Agreement shall be requested by the Grantee or the State in writing and implemented only upon approval in writing by the State. The State reserves the right to deny requests for changes to the Agreement or to the appendices. No changes can be implemented without approval by the State.

IV. GRANTEE DELIVERABLES AND REPORTING REQUIREMENTS

The Grantee shall submit deliverables and follow reporting requirements specified in Appendix A of this Agreement.

(A) The Grantee must complete and submit quarterly financial and progress reports according to a form and format prescribed by the State and must include supporting documentation of eligible project expenses. These reports shall be due according to the following:

Reporting Period	Due Date
October 1 – December 31, 2020	January 8, 2021
January 1 – March 31	April 9, 2021
April 1 – June 30	July 16, 2021
July 1 – September 30	October 8, 2021
October 1 – December 31	January 14, 2022
Final Report	No later than February 28, 2022

*Due to the State’s year-end closing procedures, there will be an accelerated due date for the report covering July 1 – September 30. Advance notification regarding the due date for the quarter ending September 30 will be sent to the Grantee. If the Grantee is unable to submit a report in early October for the quarter ending September 30, an estimate of expenditures through September 30 must be submitted to allow the State to complete its accounting for that fiscal year.

The forms provided by the State shall be submitted to the State’s contact at the address on page one. All required supporting documentation (invoices, proof of payment, etc.) for expenses must be included with the report.

(B) The Grantee shall provide a final project report in a format prescribed by the State. The Grantee shall submit the final status report, including all supporting documentation for expenses, along with the final project report and any other outstanding products within 30 days before the End Date of the Agreement.

(C) The Grantee must provide two copies of all products and deliverables in accordance with Appendix A.

(D) All products shall acknowledge that the project was supported in whole or in part by Recycling Grant Program, EGLE, per the guidelines provided by the program.

V. GRANTEE RESPONSIBILITIES

(A) The Grantee agrees to abide by all applicable local, state, and federal laws, rules, ordinances, and regulations in the performance of this grant.

(B) All local, state, and federal permits, if required, are the responsibility of the Grantee. Award of this grant is not a guarantee of permit approval by the State.

(C) The Grantee shall be solely responsible to pay all applicable taxes and fees, if any, that arise from the Grantee’s receipt or execution of this grant.

(D) The Grantee is responsible for the professional quality, technical accuracy, timely completion, and coordination of all designs, drawings, specifications, reports, and other services submitted to the State under this Agreement. The Grantee shall, without additional compensation, correct or revise any errors, omissions, or other deficiencies in drawings, designs, specifications, reports, or other services.

(E) The State's approval of drawings, designs, specifications, reports, and incidental work or materials furnished hereunder shall not in any way relieve the Grantee of responsibility for the technical adequacy of the work. The State's review, approval, acceptance, or payment for any of the services shall not be construed as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement.

(F) The Grantee acknowledges that it is a crime to knowingly and willingly file false information with the State for the purpose of obtaining this Agreement or any payment under the Agreement, and that any such filing may subject the Grantee, its agents, and/or employees to criminal and civil prosecution and/or termination of the grant.

VI. USE OF MATERIAL

Unless otherwise specified in this Agreement, the Grantee may release information or material developed under this Agreement, provided it is acknowledged that the State funded all or a portion of its development.

The State, and federal awarding agency, if applicable, retains a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, and use in whole or in part, and authorize others to do so, any copyrightable material or research data submitted under this grant whether or not the material is copyrighted by the Grantee or another person. The Grantee will only submit materials that the State can use in accordance with this paragraph.

VII. ASSIGNABILITY

The Grantee shall not assign this Agreement or assign or delegate any of its duties or obligations under this Agreement to any other party without the prior written consent of the State. The State does not assume responsibility regarding the contractual relationships between the Grantee and any subcontractor.

VIII. SUBCONTRACTS

The State reserves the right to deny the use of any consultant, contractor, associate, or other personnel to perform any portion of the project. The Grantee is solely responsible for all contractual activities performed under this Agreement. Further, the State will consider the Grantee to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the anticipated Grant. All subcontractors used by the Grantee in performing the project shall be subject to the provisions of this Agreement and shall be qualified to perform the duties required.

IX. NON-DISCRIMINATION

The Grantee shall comply with the Elliott Larsen Civil Rights Act, 1976 PA 453, as amended, MCL 37.2101 *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA

220, as amended, MCL 37.1101 *et seq.*, and all other federal, state, and local fair employment practices and equal opportunity laws and covenants that it shall not discriminate against any employee or applicant for employment, to be employed in the performance of this Agreement, with respect to his or her hire, tenure, terms, conditions, or privileges of employment, or any matter directly or indirectly related to employment, because of his or her race, religion, color, national origin, age, sex, height, weight, marital status, or physical or mental disability that is unrelated to the individual's ability to perform the duties of a particular job or position. The Grantee agrees to include in every subcontract entered into for the performance of this Agreement this covenant not to discriminate in employment. A breach of this covenant is a material breach of this Agreement.

X. UNFAIR LABOR PRACTICES

The Grantee shall comply with the Employers Engaging in Unfair Labor Practices Act, 1980 PA 278, as amended, MCL 423.321 *et seq.*

XI. LIABILITY

(A) The Grantee, not the State, is responsible for all liabilities as a result of claims, judgments, or costs arising out of activities to be carried out by the Grantee under this Agreement, if the liability is caused by the Grantee, or any employee or agent of the Grantee acting within the scope of their employment or agency.

(B) Nothing in this Agreement should be construed as a waiver of any governmental immunity by the Grantee, the State, its agencies, or their employees as provided by statute or court decisions.

XII. CONFLICT OF INTEREST

No government employee, or member of the legislative, judicial, or executive branches, or member of the Grantee's Board of Directors, its employees, partner agencies, or their families shall benefit financially from any part of this Agreement.

XIII. ANTI-LOBBYING

If all or a portion of this Agreement is funded with federal funds, then in accordance with 2 CFR 200, as appropriate, the Grantee shall comply with the Anti-Lobbying Act, which prohibits the use of all project funds regardless of source, to engage in lobbying the state or federal government or in litigation against the State. Further, the Grantee shall require that the language of this assurance be included in the award documents of all subawards at all tiers.

If all or a portion of this Agreement is funded with state funds, then the Grantee shall not use any of the grant funds awarded in this Agreement for the purpose of lobbying as defined in the State of Michigan's lobbying statute, MCL 4.415(2). "Lobbying" means

communicating directly with an official of the executive branch of state government or an official in the legislative branch of state government for the purpose of influencing legislative or administrative action.” The Grantee shall not use any of the grant funds awarded in this Agreement for the purpose of litigation against the State. Further, the Grantee shall require that language of this assurance be included in the award documents of all subawards at all tiers.

XIV. DEBARMENT AND SUSPENSION

By signing this Agreement, the Grantee certifies that it has checked the federal debarment/suspension list at SAM.gov to verify that its agents, and its subcontractors:

- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or the state.
- (2) Have not within a three-year period preceding this Agreement been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction, as defined in 45 CFR 1185; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- (3) Are not presently indicted or otherwise criminally or civilly charged by a government entity (federal, state, or local) with commission of any of the offenses enumerated in subsection (2).
- (4) Have not within a three-year period preceding this Agreement had one or more public transactions (federal, state, or local) terminated for cause or default.
- (5) Will comply with all applicable requirements of all other state or federal laws, executive orders, regulations, and policies governing this program.

XV. AUDIT AND ACCESS TO RECORDS

The State reserves the right to conduct a programmatic and financial audit of the project, and the State may withhold payment until the audit is satisfactorily completed. The Grantee will be required to maintain all pertinent records and evidence pertaining to this Agreement, including grant and any required matching funds, in accordance with generally accepted accounting principles and other procedures specified by the State. The State or any of its duly authorized representatives must have access, upon reasonable notice, to such books, records, documents, and other evidence for the purpose of inspection, audit, and copying. The Grantee will provide proper facilities for such access and inspection. All records must be maintained and made available to the state upon request for a minimum of five years after the final payment has been issued to the Grantee by the State.

XVI. INSURANCE

(A) The Grantee must maintain insurance or self-insurance that will protect it from claims that may arise from the Grantee's actions under this Agreement.

(B) The Grantee must comply with applicable workers' compensation laws while engaging in activities authorized under this Agreement.

XVII. OTHER SOURCES OF FUNDING

The Grantee guarantees that any claims for reimbursement made to the State under this Agreement must not be financed by any source other than the State under the terms of this Agreement. If funding is received through any other source, the Grantee agrees to delete from Grantee's billings, or to immediately refund to the State, the total amount representing such duplication of funding.

XVIII. COMPENSATION

(A) A breakdown of costs allowed under this Agreement is identified in Appendix A. The State will pay the Grantee a total amount not to exceed the amount on page one of this Agreement, in accordance with Appendix A, and only for expenses incurred and paid. All other costs necessary to complete the project are the sole responsibility of the Grantee.

(B) Expenses incurred by the Grantee prior to the Start Date or after the End Date of this Agreement are not allowed under the Agreement,

(C) The State will approve payment requests after approval of reports and related documentation as required under this Agreement.

(D) The State reserves the right to request additional information necessary to substantiate payment requests.

(E) Payments under this Agreement may be processed by Electronic Funds Transfer (EFT). The Grantee may register to receive payments by EFT at the SIGMA Vendor Self Service website,
<https://Sigma.Michigan.gov/webapp/PRDVSS2X1/AltSelfService>.

(F) An amount equal to [5 percent of the grant award] will be withheld by the State until the project is completed in accordance with Section XIX, Closeout, and Appendix A.

(G) The Grantee is committed to the match percentage on page 1 of the Agreement, in accordance with Appendix A. The Grantee shall expend all local match committed to the project by the End Date on page one of the Agreement.

XIX. CLOSEOUT

(A) A determination of project completion, which may include a site inspection and an audit, shall be made by the State after the Grantee has met any match obligations, satisfactorily completed the activities, and provided products and deliverables described in Appendix A.

(B) Upon issuance of final payment from the State, the Grantee releases the State of all claims against the State arising under this Agreement. Unless otherwise provided in this Agreement or by State law, final payment under this Agreement shall not constitute a waiver of the State's claims against the Grantee.

(C) The Grantee shall immediately refund to the State any payments in excess of the costs allowed by this Agreement.

XX. CANCELLATION

This Agreement may be canceled by the State, upon 30 days written notice, due to Executive Order, budgetary reduction, other lack of funding, upon request by the Grantee, or upon mutual agreement by the State and Grantee. The State may honor requests for just and equitable compensation to the Grantee for all satisfactory and eligible work completed under this Agreement up until 30 days after written notice, upon which time all outstanding reports and documents are due to the State and the State will no longer be liable to pay the grantee for any further charges to the grant.

XXI. TERMINATION

(A) This Agreement may be terminated by the State as follows.

(1) Upon 30 days written notice to the Grantee:

- a. If the Grantee fails to comply with the terms and conditions of the Agreement, or with the requirements of the authorizing legislation cited on page one, or the rules promulgated thereunder, or other applicable law or rules.
- b. If the Grantee knowingly and willingly presents false information to the State for the purpose of obtaining this Agreement or any payment under this Agreement.
- c. If the State finds that the Grantee, or any of the Grantee's agents or representatives, offered or gave gratuities, favors, or gifts of monetary value to any official, employee, or agent of the State in an attempt to secure a subcontract or favorable treatment in awarding, amending, or making any determinations related to the performance of this Agreement.
- d. If the Grantee or any subcontractor, manufacturer, or supplier of the Grantee appears in the register of persons engaging in unfair labor practices that is compiled by the Michigan Department of Licensing and Regulatory Affairs or its successor.
- e. During the 30-day written notice period, the State shall withhold payment for any

findings under subparagraphs a through d, above and the Grantee will immediately cease charging to the grant and stop earning match for the project (if applicable).

(2) Immediately and without further liability to the State if the Grantee, or any agent of the Grantee, or any agent of any subcontract is:

- a. Convicted of a criminal offense incident to the application for or performance of a State, public, or private contract or subcontract;
- b. Convicted of a criminal offense, including but not limited to any of the following: embezzlement, theft, forgery, bribery, falsification, or destruction of records, receiving stolen property, or attempting to influence a public employee to breach the ethical conduct standards for State of Michigan employees;
- c. Convicted under State or federal antitrust statutes; or
- d. Convicted of any other criminal offense that, in the sole discretion of the State, reflects on the Grantee's business integrity.
- e. Added to the federal or state Suspension and Debarment list.

(B) If a grant is terminated, the State reserves the right to require the Grantee to repay all or a portion of funds received under this Agreement.

XXII. IRAN SANCTIONS ACT

By signing this Agreement, the Grantee is certifying that it is not an Iran linked business, and that its contractors are not Iran linked businesses, as defined in MCL 129.312.

III. APPENDIX B - PROJECT-SPECIFIC REQUIREMENTS

GRANT APPLICATION; PROJECT SCOPE

The scope of this project is outlined in the Grantee's approved Fiscal Year 2020 Recycling Market Development Grant Proposal, which is included in this grant agreement as part of this Appendix A, as well as any subsequent modifications to the original grant proposal as approved by the State.

The entirety of the grantee's grant application is included as Appendix A. The grantee shall adhere to all budget, tasks, deliverables, and timeline identified in the attached Grant Proposal.

GRANT REIMBURSEMENT PROCESS

Breakdown of project funds covered under this Agreement:

Grant Amount = \$XX,XXX
Matching Funds = \$XX,XXX
Total Grant Budget = \$XX,XXX

The total payment made to the Grantee by the State shall not exceed \$XX,XXX. Any additional costs associated with the project shall be the responsibility of the Grantee.

The Grantee shall submit quarterly invoices documenting all project expenses incurred since the previous grant disbursement. Five percent of each invoice will be withheld until final report is submitted and approved.

A request for payment shall be submitted by the Grantee on a form provided by the State and shall include proof of payment to the vendor (such as canceled checks, ACH, wire transfer confirmations, bank statements, etc.) and proof of receipt of goods. Reimbursement forms will be available on the EGLE's Recycling Program website located at Michigan.gov/MiRecycles.

The Grantee is responsible for ensuring that all partner entities fulfill their commitments under the grant proposal.

The Grantee is responsible for ensuring that all products requiring reimbursement acknowledge that the project was supported in whole or in part by the EGLE Recycling Grant Program.

REPORTING REQUIREMENTS

The Grantee shall comply with all reporting requirements of the State during the Agreement Period.

Quarterly reports will be required on January 8, 2021; April 9, 2021; July 16, 2021; October 8, 2021; and January 14, 2022. The final report is due no later than February 28, 2022.

Submit all reports to : **EGLE-RecyclingGrant@Michigan.gov** and **Flechterm@Michigan.gov**

QUARTERLY REPORTS

The Grantee shall submit the final quarterly status and financial report, including all supporting documentation for expenses, by January 14, 2022. Supporting documentation must include proof of payment and proof of receipt of goods.

Quarterly progress and financial reports must be submitted at least every three months during the Agreement Period, even if no funds were expended. Provide the following narrative using the numbers and headings listed below:

1. SUMMARY OF ACTIONS TAKEN DURING THE CURRENT PERIOD

- A. Describe the tasks completed and how project funds were expended during the time period covered by the report. If no funds were expended during the current period, include a statement to that effect and explain why. A description of tasks completed during the current period must still be included.
- B. If any products were developed during the time period covered by the report, include a copy of the products with the report.

2. SUMMARY OF ACCOMPLISHMENTS DURING THIS PERIOD

- A. Goals and objectives as set forth in the grant application and grant contract. List the project's stated goals and objectives and describe how the project is meeting them.
- B. Additional project accomplishments not included in original project goals and objectives.
- C. Project data: Provide any data collected during the current period, as described in the grant application incorporated with this contract. Attach available documentation which supports the data. If the data provided covers a previous reporting period, specify the dates which the data is from.

3. SUMMARY OF REMAINING ACTIONS TO BE TAKEN

Describe the remaining tasks to be completed and indicate whether or not these tasks will be completed within the approved project schedule. For tasks which will not be completed within the approved project schedule, discuss the reasons for the delay and provide the revised task completion date.

4. PROBLEMS ENCOUNTERED DURING THIS PERIOD

Identify any problems encountered during the current reporting period and explain how they were resolved. Describe the impact these problems have had or will have on project design, completion, and operations.

5. ADDITIONAL COMMENTS

Provide any additional comments relevant to the status of the project and its operations.

6. FINANCIAL DOCUMENTATION

Provide required documentation, including proof of payment and proof of receipt of goods, for funds expended during the reporting period.

FINAL PROJECT REPORT

1. PROJECT DESCRIPTION

- A. Provide a description of the project funded.
 - i. Provide a 4-5 sentence summary of the project.
 - ii. Include any news articles and/or photographs as appropriate.
 - iii. Include the date project operations began and a discussion of the current status of project operations.
- B. List and explain the steps involved in completing the project, from planning through implementation to ongoing operations. Include the dates of major project activities and events.
- C. List and discuss other entities (e.g., companies, nonprofit groups, local units of government) that played a role in planning and implementing the project and briefly describe their role. Describe any formal agreements that were entered into as a part of project implementation.

2. PROJECT DATA

- A. Provide project data as applicable. For the time period covered by this report, provide the quantity of recyclable or organic materials diverted, in tons or cubic yards /time period. Specify which recyclable or organic materials are included in this reported volume. Describe the methods for measuring these quantities.
- B. Education and Outreach Program as applicable. Provide the following information for all project related promotional activities which have occurred as a result of the project:

- i. Types of groups (audience) targeted.
- ii. Types of promotional materials developed.
- iii. Methods used to distribute information or materials.
- iv. Planned/future educational efforts.

3. PROJECT COSTS:

Provide the following information regarding additional costs required to implement the project:

- A. Provide the dollar amounts and a description of all additional program related capital costs which have been incurred during the time period covered by this report. Identify the specific dates these costs were incurred.
- B. For the time period covered by this report, provide the dollar amounts and a description of all additional costs (beyond match) required to complete the project. Identify the specific dates these costs were incurred.
- C. For the time period covered by this report, provide the dollar amount and a description of the costs needed to operate the project.

4. PROJECT EVALUATION

- A. Goals and Objectives. Summarize each of the project's goals and objectives as stated in your original proposal. Discuss (in both narrative and numerical terms) how well you are meeting each goal and objective. For each goal or objective that is not being met, discuss why. If the project goals and objectives have changed from those that were originally established, discuss how and why. Also, discuss how these changes have impacted the final project.
- B. Discuss any project accomplishments not included in the project's original goals and objectives.
- C. Discuss the economic impact the project has had on the local economy. Include information on new jobs created and sustained and any other relevant economic information.
- D. List and describe all significant problems encountered during project implementation, including any cost overruns, institutional barriers, local issues, etc. Describe how the problems were addressed and resolved. Describe any impact these problems had in project design, implementation and/or ongoing operations.
- E. Describe the most successful components of the project and explain why you think they are successful.

- F. Describe the least successful components of the project and explain why you think they are not successful.
- G. Lessons Learned. Discuss any conclusions you have made about the technical and economic feasibility of carrying out a similar project. Identify what you would do differently if you were to carry out a similar project, and why.

5. ADDITIONAL COMMENTS

Provide any additional information relevant to the status of the project and its operations.

The quarterly and final project report must be signed by the authorized contact person for the project. Indicate any name, address or telephone number changes for the contact person and/or the project.

Submit the quarterly and final project reports to the attention of the State’s contact at the following email addresses: **EGLE-RecyclingGrant@Michigan.gov** and **FlechterM@Michigan.gov**

IV. ADDITIONAL REQUIREMENTS

As Determined.

V. JOBS CREATED AND RETAINED (if jobs claims are made in proposal)

The Grantee shall create and retain at least XX full time jobs (2080 hours per year) for the term of this Agreement. Grantee's failure to do so may constitute a material breach of this Agreement and grounds for termination as described in section XXI of this grant agreement.

	2020	2021	2022
Jobs Created			
Jobs Retained			

The 2020 total is the number FTEs in 2019 plus those jobs created in 2020. The 2021 number jobs retained equals the total FTEs in 2020 plus those created in 2021

VI. RECAPTURE

The Grantee is hereby notified and hereby acknowledges that the Grant is subject to recapture and that the Grantee will incur an obligation to repay the Grant (the “Recapture Obligation”) immediately, in full, if:

- a. it fails to comply with the entirety of the grantee’s grant application attached, including all budget, tasks and timeline;
- b. it sells, exchanges, or disposes of any equipment described in this

- Agreement without the Grantor's written approval; or
- c. the State of Michigan determines that there has been a default under the Agreement and seeks reimbursement.

In the event that the Grantee becomes liable for a Recapture Obligation, it shall satisfy the Recapture Obligation within the time specified in the written notice thereof to the Grantee by the Grantor.

The Grantee's obligation under this sub-section shall survive five years beyond the term of this Agreement.

DRAFT

Measuring Environmental and Economic Impact of Recycling Market Development Projects

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has identified several metrics that will assist the Department in evaluating responses to the Market Development Grant Request for Proposals based on the ability to meet the goals outlined in the RFP. Metrics include the potential for each proposed project to create measurable, significant, and persistent positive impacts on the circular economy, environment, and other economic factors. EGLE staff will evaluate proposals based on the applicant's ability to demonstrate measurable and achievable outputs and outcomes. EGLE will weight and apportion points to each of the metrics outlined below for each RFP. Please provide assumptions so that EGLE staff clearly understand where baseline information come from, how markets for materials are proposed to change, and how the economic value of the materials and jobs are estimated. Some guidance to available estimation tools is provided below.

During the grant period, expected outputs from the project to be funded under this announcement may include the following:

- Pounds of waste recycled or beneficially reused, diverted from landfills, and/or an increase in the rate of participation;
- Metric tons CO₂ equivalents of greenhouse gases reduced;
- Dollars saved through recycling or reuse efforts, creation of jobs or other economic development; and/or
- Quantitative and qualitative environmental and human health benefits, including the impact on public perception and behavior.

Projects to be funded under this grant are expected to produce one or more of the following circular economy, environmental, and economic outcomes:

- Improved markets for recycled materials (especially in Michigan)
- Reduced greenhouse gas emissions
- Reduction in solid waste going to the landfill
- Protecting the Great Lakes
- Conservation of natural resources
- Improved local economies
- Conservation of energy
- Reduced costs
- Improved air and/or water quality
- Preserved land quality

The applicant should develop performance measures they expect to achieve through the proposed activities and describe them in their application. These performance measures will help gather insights and will be the mechanism to track progress concerning successful process and output and outcome strategies and will provide the basis for developing lessons to inform future recipients. The following are questions to consider when developing output and outcome measures of quantitative and qualitative results:

- What are the measurable short-term and longer-term results the project will achieve?
- How does the plan measure progress in achieving the expected results (including outputs and outcomes)?
- How will the approach use resources effectively and efficiently?

Summary and Guidance	
Circular Economy Impacts	
Increase Existing Material Reuse in Michigan	Demonstrate measurable and significant increases in existing material reuse for one or more types of material.
Increase New Material Reuse in Michigan	Demonstrate measurable and significant increases in new material reuse for one or more types of material.
Increase New Green Jobs	<p>Demonstrate measurable, significant, and persistent increases in new green jobs. Provide an estimate of new jobs created and value of these jobs based on average wages and benefits associated with each job.</p> <p>Regional Economic Models, Inc. (REMI) is a software model that attempts to measure the dynamic effect of infrastructure investments and new employment. Some economic development agencies may be able to assist applicants with this estimation tool.</p> <p>Waste Reduction Model (WARM) helps solid waste planners and organizations track and voluntarily report greenhouse gas (GHG) emissions reductions from six different waste management practices – source reduction, recycling, composting, anaerobic digestion, combustion and landfilling. EPA.Gov/Warm The new version of WARM 15 provides a broader set of economic metrics including job and tax benefits.</p>

Increased Market Value of Recycled Materials Reused	Demonstrate measurable and significant opportunities to increase the market value for one or more types of material. Provide an estimate of increased value compared to baseline by weight or volume. To the extent practicable, provide assumptions on this value persisting in the Michigan market.
Strengthening Supply Chain Collaboration (MDEC coordination)	Demonstrate measurable and significant measures that significantly strengthens the collaboration within one or more supply chains.
Environmental Impacts	
Reduced Solid Waste Going to Landfills (Weight/Volume)	Demonstrate measurable, significant, and persistent reductions in one or more types of material going to landfills.
Reduction of Plastic Waste (Weight/Volume)	Demonstrate measurable, significant, and persistent reductions in one or more types of plastic waste.
Organics Management	Demonstrate measurable, significant, and persistent increases the beneficial reuse of yard waste and/or food scraps.
Energy Conservation (KwH or CCF or BTU)	Demonstrate measurable, significant, and persistent opportunities to increase energy conservation of one or more form of carbon-based energy.
GHG Reductions (Social Cost of Carbon)	The social cost of carbon places an economic value on carbon reduction efforts. Once you demonstrate the greenhouse gas reductions, you can multiply the Metric tons of carbon dioxide equivalent (MTCO ₂ E) by \$45 to estimate the economic value of those reductions.
Renewable Energy Use	Demonstrate measurable, significant, and persistent opportunities to increase the use of one or more form of renewable energy.

<p>Great Lakes Protection (e.g., Water Use, Air Quality, Water Quality, Aquatic Plastics Reduction or Recovery, Land Preservation</p> <p>(Volume and MTCO₂E)</p>	<p>Demonstrate measurable, significant, and persistent opportunities to improve one or more Great Lakes Protection criteria. To the extent practicable, provide quantitative and/or qualitative environmental and human health benefits associated with Great Lakes Protection efforts.</p>
<p>GHG Reductions (MTCO₂E)</p>	<p>Demonstrate measurable, significant, and persistent opportunities to reduce the production of greenhouse gases, reach Net Zero, and/or sequesters carbon.</p> <p>WARM helps solid waste planners and organizations track and voluntarily report greenhouse gas (GHG) emissions reductions from six different waste management practices – source reduction, recycling, composting, anaerobic digestion, combustion and landfilling. (EPA.Gov/Warm) The new version of WARM 15 provides a broader set of economic metrics including job and tax benefits.</p> <p>EPA’s Pollution Prevention (P2) Program developed this GHG calculator tool to help the program, its grantees, and its partners quantify GHG emission reductions. This tool converts standard metrics for electricity, green energy, fuel use, chemical use, water use, and materials management into metric tons of carbon dioxide equivalent, MTCO₂e, using standard national conversion factors.</p> <p>(EPA.Gov/Sites/Production/Files/2015-07/ghgconversion.xls)</p> <p>US Energy Information Agency Fuel Coefficients to calculate CO₂ emissions from a variety of different fuel types (EIA.Gov/Environment/Emissions/co2_vol_mass.php)</p> <p>To estimate the GHG reductions from water use reductions</p> <ul style="list-style-type: none"> ○ MTCO₂E= Water Conserved (gal.) * (3,300 kilowatt hours (KwH) / 1,000,000 gal. water used)* [either National or Regional emissions factor] ○ National Conversion factor: 0.000692 MTCO₂e/KwH ○ Regional Conversion factor: (0.000498 to 0.00090 MTCO₂e/KwH)

Other Economic Impacts	
Increase Households with Access to Recycling	Demonstrate measurable, significant, and persistent opportunities to increase the number of households with access to recycling across one or more jurisdictions.
Increase Household Participation	Demonstrate measurable, significant, and persistent opportunities to increase the number of households participating in recycling in one or more jurisdictions.
Increase Recycled Material Supply (Quantity)	Demonstrate measurable, significant, and persistent opportunities to increase the supply of one or more types of recycled material.
Increase Recycled Material Quality (\$ value)	Demonstrate measurable, significant, and persistent opportunities to increase the market quality of one or more types of recycled material.
Reduced electricity use (\$ value)	Demonstrate measurable, significant, and persistent opportunities to reduce operation costs due to electricity conservation. Show KWH reductions and cost per KWH to obtain operation cost savings.
Reduced Natural Gas Use (\$value)	Demonstrate measurable, significant, and persistent opportunities to reduce operation costs due to natural gas conservation. Show CCF reductions and cost per CCF to obtain operation cost savings.
Transportation Fuel Savings (\$value)	Demonstrate measurable, significant, and persistent opportunities to reduce operation costs due to transportation fuel conservation. Show transportation fuel savings (gallons) and price per gallon to obtain operation cost savings.
Transportation Savings From reduction in Heavy Duty Vehicle VMT	Demonstrate measurable, significant, and persistent opportunities to reduce Heavy Duty Vehicle-Miles-Travelled (VMT) due to transportation trip reductions. Trash and Recycling vehicles can have the equivalent impact on roads as 100-1000 passenger vehicles.