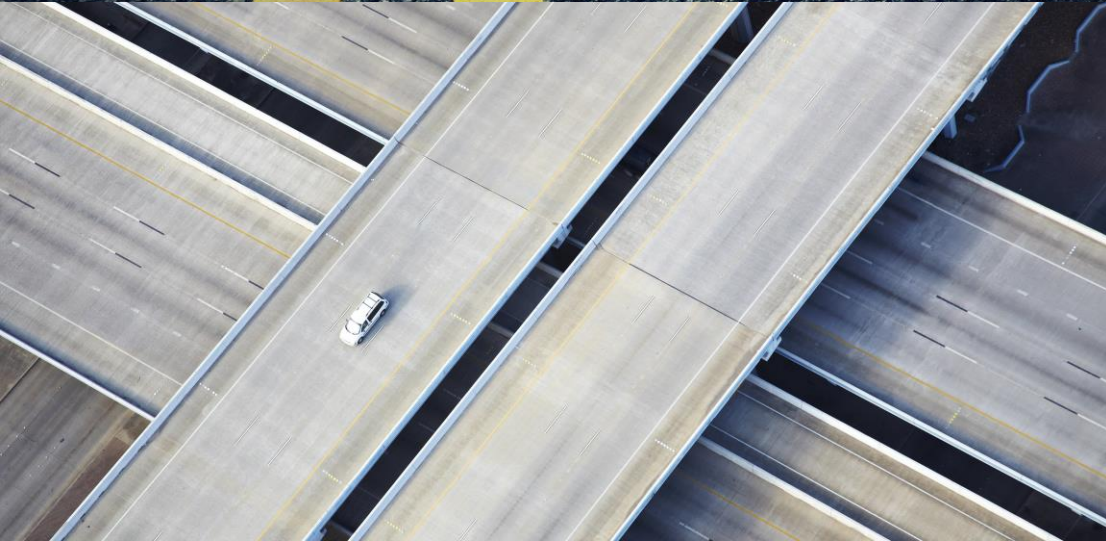


Feature Presentation

**NJDOT Low-Carbon
Transportation
Materials (LCTM)**

Giri Venkiteela

Bureau of Research, Innovation &
Information Transfer



NJDOT Low-Carbon Transportation Materials (LCTM) Program

NJ STIC Triannual Meeting, August 7th 2024



**BUREAU OF
RESEARCH, INNOVATION,
& INFORMATION TRANSFER**



Grant Program Information

AVAILABLE FUNDING

All awards of LCTM funds are available for obligation through **September 30, 2026**, and available for expenditure before **September 30, 2031**.

FHWA **anticipates at least \$22 million** will be made available to each State DOT that addresses the eligible application factors and subfactors in Section 8 Application Review Information of this RFA. Any award under this RFA will be **subject to the availability of funding**, and FHWA reserves **the right to make no awards under this RFA**.

Eligible Materials Categories

Asphalt



Concrete



Steel



Glass



NJDOT is interested in all these four materials

FHWA GRANT PROGRAM GOALS

- **Increasing the use** of lower carbon materials and products that are used in projects funded under 23 U.S.C.
- **Facilitating the use** of low carbon transportation materials while ensuring appropriateness for use in projects eligible under 23 U.S.C.
- **Promoting technology transfer** and enhancing workforce development to increase the adoption of environmental quantification techniques used in decision-making by transportation agencies; and
- **Encouraging State DOTs** to begin LCTM activities and building successful low carbon transportation material identification **frameworks** that eventually may be replicated by non-State recipients eligible to apply for LCTM funding.

Request For Application (RFA)

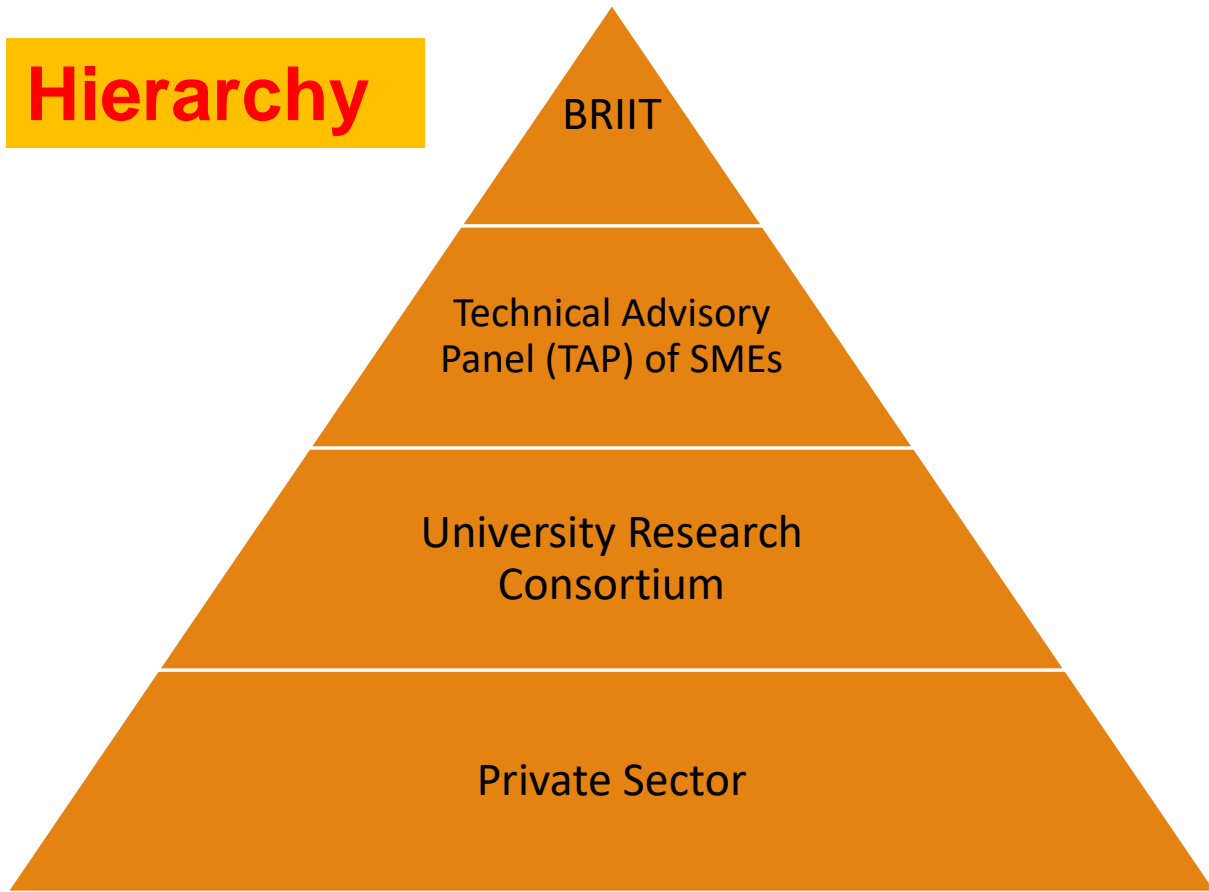
June 10, 2024, State DOTs can directly apply to this RFA by submitting their Application Materials, outlined in Table 2, to the program inbox at FHWALowCarbonMaterials@dot.gov; do not use the Grants.gov 'Workspace' to prepare and submit the Application Materials. Late applications will not be reviewed

Table 2. Application Materials Overview

Part	Comments	Page Limit
SF-424, Application for Federal Assistance	Applicants may leave fields 5a, 5b, 6, 7, and 13 blank	None
SF-424C, Budget Information for Construction Programs		None
SF-424D, Assurances for Construction Programs		None
Volume 1: Technical Application	<i>Attach to SF-424, Item 15</i>	15 pages
Volume 2: Budget Application	<i>Attach to SF-424, Item 15</i>	None
Additional Supporting Documentation	<i>Attach to SF-424, Item 15, As needed</i>	10 pages

**Administration
and
Technical Activities Plan**

Hierarchy



Low-Carbon Transportation Materials WEBSITE

1. Homepage www.njdottechtransfer.net website
2. Ongoing research and updates
3. LCTMs database
4. Newsletters
5. LCTM training aids
 - Videos, how-tos, factsheets, webinars
6. NJDOT-LCTM progress meetings

One stop shop for all NJDOT LCTM program resources

Phase 1

2 to 3 Year duration

- ID of low carbon materials
- EPDs
- Testing
- Spec Development
- Tech Transfer

NJDOT SMEs

- Materials
- Environmental
- Planning

Phase 2

2 Year duration

- Construction Projects
- Tech Transfer

NJDOT SMEs

- Pavement
- Bridge
- Project Management
- Planning
- Environmental

Proposal Tasks

Task 1 - Process for Substantially Lower Embodied Carbon

Task 2 - LCTM Quality Assurance (QA) and LCTM Specifications

Task 3 - Construction Project Identification

Task 4 - Use of LCTM on Projects

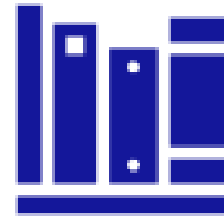
Task 5 - Substantially Lower Embodied Carbon

Task 6 - Quality Assurance and Acceptance

Task 7 - Use of LCTM on Construction Projects

Timeline

1. Forming teams NJDOT TAP and University Consortium (**May 9th – May 15th**)
2. NJDOT meeting with University Consortium (**May 17th**)
3. University Consortium task wise budget, duration and overall Gantt chart for assigned material category due (**May 31st**)
4. NJDOT Grant Proposal submitted on **Friday, June 7th**



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Thank you