

Delaware DOT



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Quantifying Carbon Emissions in Pavement Construction, Maintenance, and Preservation

Project Goals:

Meeting GHG reduction goals outlined in the state's Climate Action Plan by:

- (i) Training: evaluation of pavement EPDs and LCAs for planning, design, construction, and maintenance staff.
- (ii) Collect & share data to "baseline the state's current status" related to GHG emissions.
- (iii) Work with SMEs to develop realistic and achievable future reduction GHG targets.

Project Scope:

- Training and education.
- Collecting and reviewing existing baseline GHG environmental data.
- Create future achievable targets to reduce the state's GHG emissions.
- Promote the creation of EPDs for the construction materials used in the state.
- Develop specifications to ensure environmental quality standards are met with an eye to creating incentives as appropriate.
- Use LCA for various pavement construction practices.
- In the field, monitoring, tracking, and documenting construction projects for their GHG emissions.
- Collecting data statewide and then reviewing to ensure state targets are being met.

