## Self-Assessment: 12.0 Project Development and Preliminary Design

This self-assessment worksheet is intended to assist State DOT staff involved in project development and design to determine their level of engagement in GHG assessment and additional steps they could take to estimate and reduce GHG emissions. This worksheet is meant to be used as a guide and completed with any markings and notes that are helpful.

#### Primary GHG Interests and Responsibilities

* Project-level environmental assessment that includes GHG emissions.
* Multimodal design considerations.
* Design factors influencing traffic operations and congestion.
* Detour planning.
* Public outreach and partnering.

#### Key Staff Responsibilities

List the key staff person(s) responsible for ensuring GHG is considered in project development and design. **Lead** = management/oversight; **Support** = technical or procedural support (e.g., emissions calculations).

| Unit | Title/Position/Topic | Name | Role (Lead/Support) |
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#### Level of Engagement

Select the level that best describes how engaged your agency, as a whole, is now on addressing GHG in project development and preliminary design and how engaged you might want to be in the next few years.

| Now | Within 3 Years? | Does Your Agency Consider GHG Impacts in Project Development, Design, and Environmental Review? | Level |
| --- | --- | --- | --- |
| \_\_\_\_\_ | \_\_\_\_\_ | No policy related to GHG emissions reduction that requires consideration in project development and design. | 1 |
| \_\_\_\_\_ | \_\_\_\_\_ | Policy to consider GHG emissions in project development and design. No formal consideration at the program level. | 2 |
| \_\_\_\_\_ | \_\_\_\_\_ | Qualitative consideration at both the program and project level. Quantitative analysis on an exception basis (e.g., major projects). | 3 |
| \_\_\_\_\_ | \_\_\_\_\_ | Policy that sets transportation systemwide GHG reduction goals or targets and monitors progress. Quantitative GHG analysis/consideration for major projects and programs with a standard menu of mitigation strategies considered, including transportation system impacts as well as direct and embodied GHG emissions from construction/maintenance materials and operations.  | 4 |

#### Strategies to Estimate and Reduce GHG Emissions

Identify specific strategies your unit/functional area is undertaking now and which ones you might want to be undertaking in a few years. The table indicates what “level of engagement” (1–4) the strategy may be associated with. More advanced strategies indicate higher levels of engagement that also require more effort.

| Doing Now? | Within 3 Years? | Programmatic Strategy | Level of Engagement |
| --- | --- | --- | --- |
| \_\_\_\_\_ | \_\_\_\_\_ | Ensure active modes and mass transit are supported in the project design. | 2 |
| \_\_\_\_\_ | \_\_\_\_\_ | Consider design and operations strategies to improve traffic flow and reduce congestion and idling. | 2 |
| \_\_\_\_\_ | \_\_\_\_\_ | Make GHG impacts (qualitative) a scored variable in the alternatives analysis, e.g., at 30% design. | 2 |
| \_\_\_\_\_ | \_\_\_\_\_ | Consider operations strategies, including detour route alternatives and construction staging, to minimize traffic delays and vehicle miles traveled (VMT). | 3 |
| \_\_\_\_\_ | \_\_\_\_\_ | Conduct comprehensive GHG analyses on major projects, including emissions from construction, maintenance, and operation of motor vehicles once the facility is complete. | 4 |
| \_\_\_\_\_ | \_\_\_\_\_ | Evaluate GHG, energy, and emissions impacts resulting from traffic flow and modal shifts associated with different alternatives and consider in selection of preferred alternative. | 4 |
| \_\_\_\_\_ | \_\_\_\_\_ | Evaluate GHG, energy, and emissions impacts resulting from detour route alternatives or traffic delays from construction staging; plan construction staging and detours to minimize traffic delays and VMT. | 4 |
| \_\_\_\_\_ | \_\_\_\_\_ | Make GHG impacts (quantitative) a scored variable in the alternatives analysis, e.g., at 30% design. | 4 |
| \_\_\_\_\_ | \_\_\_\_\_ | Incorporate GHG issues into routine project outreach and partnering. | 4 |

#### Action Plan

What actions will you take to implement the strategies you identified above to increase your agency’s engagement?

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| Action | Timeframe | Lead Responsibility |
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