

Last Update: 11-Apr-13

Energy Analysis - Reviewer Checklist

Project name:
 Date reviewed:
 Reviewer name:
 Date received:

Energy analysis is required for compliance with federal regulations (U.S. DOT Order 5610 IC and FHWA – Technical Advisory T 6640.8A) and WSDOT guidance on project level greenhouse gas analysis. The checklist may be modified as appropriate in consultation with the WSDOT Energy section. This checklist is a general reference for preparing energy analysis that will also be used by WSDOT for review and approval of related documentation. Review will be streamlined for documents organized according to sections below. Some elements below may vary by project and deviations should be described in the document or in accompanying written documentation to the WSDOT reviewer. The guidelines are not all-inclusive and the checklist may be modified as appropriate.

1 Summary

	Yes	No	Missing (describe)
Brief project description, purpose, and location Justification for analysis, e.g., applicable laws and regulations Clarify the models used Brief comparison of results for all alternatives, including No Build Describe any coordination with federal, state, and local agencies Written in Plain Talk format			

2 Project Information for All Alternatives

	Yes	No	Missing (describe)
Official project description Vicinity map(s) showing alternative alignments Map and description of existing and proposed ROW and nearby areas accessible to general public Traffic data: volumes, speeds, delay, vehicle mix Project area meteorology			

3 Energy Background

	Yes	No	Missing (describe)
Location of existing fuel sources Potential for the project to affect existing energy supplies at local, regional, or state levels Potential for project to affect future energy supplies Potential effects on local energy production Includes sample language from <u>most current</u> project level GHG guidance Potential effects on local energy production			

4 Project Data and Assumptions

	Yes	No	Missing (describe)
Description of methodology for analyzing direct and indirect effects of the project (e.g., Operations - MOVES, Construction - Caltrans Energy and Transmission Systems) Description of modeling or analytical tools, including version numbers Methods and tools appropriate for project?			

5 Energy Modeling Results and Identification of Potential Impacts

	Yes	No	Missing (describe)
Description of parameters and results for all alternatives, including No-Build:			
<i>Operations</i>			
VMT British Thermal Units (BTUs) Comparison of fuel consumed Table comparing operation energy			
<i>Construction</i>			
Construction costs List of expected construction equipment, materials, and worker transportation to/from site Table comparing construction energy			
<i>GHG Emissions</i>			
Qualitative evaluation of embodied/lifecycle emissions Table comparing operational GHG emissions Table comparing construction GHG emissions			

6 Recommended Energy Mitigation

	Yes	No	Missing (describe)
Discussion of energy reduction or conservation measures that could be employed on the project or that were committed to during public involvement If other measures were considered, describe why they were not included in final recommendations			