

## 4.1 GREENHOUSE GAS EMISSIONS

---

This section provides estimates of Greenhouse Gas Emissions (GHG) associated with the construction of the Modified Project. Estimates of GHGs for operation and maintenance of the Modified Project are not provided since the elimination of the solar thermal technology eliminates the major GHG emissions associated with the use of HTF, the consumption of natural gas, and the intensive mirror washing program. The GHGs for operation and maintenance of the Modified Project are estimated to be a fraction of those of the Approved Project.

GHG emissions during construction, however, were evaluated for the Modified Project since many of the construction activities associated with grading of the site were similar to the Approved Project, warranting a closer comparison.

### 4.1.1 Summary of GHG Construction Emissions

The methodology for calculating GHG emissions during construction is described in Appendix D. Table 4.1-1 presents the estimates of GHGs for the construction phase of the Modified Project (total of on-site and offsite emissions).

**TABLE 4.1-1  
GHG CONSTRUCTION EMISSIONS ESTIMATES**

Total CO <sub>2</sub> e, short tons/period	9578
Total CO <sub>2</sub> e, metric tons/period	8707
Total CO <sub>2</sub> e, normalized short tons/yr	1532.5
Total CO <sub>2</sub> e, normalized metric tons/yr	1393

These GHG construction emission estimates are less than the GHG construction estimate of 103,900 metric tons/period contained in the Final Decision.