

note that this analysis assumes a clear line-of-sight area between the equipment and the residence, so any vegetation or other obstacles between the PV equipment and the residence will reduce the sound reaching the residence compared to the above estimates, which at Morven Solar will include a 10-ft earthen berm topped with 20-ft thick of vegetation that will provide very significant sound attenuation. It is also important to note that the tracker motors only operate for short periods of time throughout the day and the inverters only produce their maximum sound when operating at maximum power in warm weather. While this simplified noise impact assessment is limited in capability compared to specialized noise analysis software, this analysis reflects the physics of sound propagation and uses noise data from representative equipment, allowing for a simple yet accurate estimate of worst case sound impacts. An engineering firm did in fact use a noise analysis software to produce a sound study of the Morven Solar project that was submitted as part of the project's special exception application. The results of that study were very similar to the worst case estimates calculated above. In conclusion, the Morven Solar project is not expected to create noise interference or be bothersome to any neighbors, day or night.

### *Sources for Further Reading on Noise:*

- World Health Organization (WHO), [Guidelines for Community Noise](#), 1999

## Conclusions

Based on my knowledge of science and engineering, personal experience with PV technology, review of academic research, analysis of the proposed project, and review of materials provided by the project developers about the proposed Morven Solar project in Brooks County, Georgia, my conclusions are summarized as follows:

- The Morven Solar project will not result in any negative impacts to public health or safety.
  - The Morven Solar project will not increase the temperature of the area surrounding the site.
  - The Morven Solar project will not create a glare hazard for aviation or other negative glare impacts.
  - The Morven Solar project will not create bothersome noise for any neighbors.
- 
-