

**Ohio**

**Department of  
Development**

**Ted Strickland**, Governor

**Lee Fisher**, Lt. Governor  
Director, Ohio Department of Development

Diesel Emissions Reduction Grant  
***Appendix D: Sample Emissions Calculation Chart***

**Diesel Emissions Reduction Grant Program  
Ohio Energy Office  
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Columbus, OH 43216-1001**

# Sample Emissions Calculator

<b>Replacement/Repower/Retrofit Project Emission Reduction Calculator</b>		
<b>Existing Equipment</b>		
Emission Factors Existing Vehicle	PM <sub>2.5</sub> gm/mile	NO <sub>x</sub> gm/mile
Existing Vehicle Usage Total Vehicle Miles Per Day	miles/day	miles/day
Emission Factors Times Usage	PM <sub>2.5</sub> gm/day	NO <sub>x</sub> Gm/day
<b>Replacement/Repower/Retrofit Equipment</b>		
Emission Factors Replacement/Repower/Retrofit Vehicle	PM <sub>2.5</sub> gm/mile	NO <sub>x</sub> Gm/mile
Rpmt/Repr/Rtft Vehicle Usage Total Vehicle Miles Per Day	miles/day	miles/day
Emission Factors Times Usage	PM <sub>2.5</sub> gm/day	NO <sub>x</sub> gm/day
<b>Project Emission Reductions</b>		
Existing Vehicle Emissions Minus Rpmt/Repr/Rtft Vehicle Emissions	PM <sub>2.5</sub> gm/day	NO <sub>x</sub> gm/day
Project Emission Reductions Converted to Kilograms/Day	kg/day	kg/day

**Note: Spreadsheet will need to be modified for multiple vehicles or vehicle types.**

<b>Anti-Idle Equipment Project Emission Reduction Calculator</b>		
<b>Existing Equipment</b>		
Emission Factors Existing Equipment	PM <sub>2.5</sub> gm/hour	NO <sub>x</sub> gm/hour
Existing Equipment Usage Total Hour Per Day	hours/day	hours/day
Emission Factors Times Usage	PM <sub>2.5</sub> gm/day	NO <sub>x</sub> gm/day
<b>Anti-Idle Equipment</b>		
Emission Factors Anti-Idle Equipment	PM <sub>2.5</sub> gm/hour	NO <sub>x</sub> gm/hour
Anti-Idle Equipment Usage Total Hours Per Day	hours/day	hours/day
Emission Factors Times Usage	PM <sub>2.5</sub> gm/day	NO <sub>x</sub> gm/day
<b>Project Emission Reductions</b>		
Existing Equipment Emissions Minus Anti-Idle Equipment Emissions	PM <sub>2.5</sub> gm/day	NO <sub>x</sub> gm/day
Project Emission Reductions Converted to Kilograms/Day	kg/day	kg/day

**Note: Spreadsheet will need to be modified for multiple pieces of equipment or equipment types.**