



# IdleAir: Solving Climate Change in Central and Latin America

Climate change is causing catastrophic consequences throughout the Americas. Many nations have greenhouse gas (GHG) reduction commitments, but realizing them is challenging. **IdleAir reduces GHG emissions with transportation electrification solutions.** IdleAir has successful, self-sustaining and cost-effective operations in Mexico and the U.S.



*EGOBA Terminal in Nuevo Laredo, Mexico*



## IdleAir Experience:

- Proven 10-year history of GHG emission reductions
- Mitigated over 600,000 tons of GHG emissions
- Mitigated over one billion pounds of aggregate emissions
- Offsetting use of over 60 million gallons of diesel fuel
- U.S. EPA supported and approved company
- Reductions purchased by General Motors, Coca-Cola and Virgin Atlantic
- 2015 Corporate Excellence award winner from The American Carbon Registry
- Successful, self-sustaining projects in Mexico and the U.S.

*Solar PV on Truck Roof*



## The Idling Issue:

- Trucks idle, releasing GHG, to power air conditioning, on-board systems & trailer temperatures
- Trucks idle extensively at border crossings and ports across the Americas
- U.S. EPA estimates that large trucks idle an average of 6-hours per day
- 20% of truck cargo is refrigerated, and the 2nd refrigeration engine runs continuously
  - Refrigeration engine is even more pollutive than the main engine

*Grid or Solar Powered TSE: A/C, Power*



## Solutions:

- Truck Stop Electrification (TSE) and electric vehicle (EV) charging
- TSE powered by electric grid or solar PV
- Electrification for refrigerated trailers (eTRU)
- Natural gas delivery systems (CNG)
- Solar electrification of vehicles, trucks and trailers

*eTRU Trailer Refrigeration*



## Community Benefits:

- Creates permanent local green jobs (40% historically filled by women)
- Improved health and quality of life for the local population
- Eliminate local diesel emissions pollutants: NOx, VOC and Particulate Matter,
- Reduced risk of cancer and asthma for truck drivers and the local community
- Improved highway safety: truck drivers sleep better and reduce fatigue
- Transportation companies reap fuel and engine maintenance savings