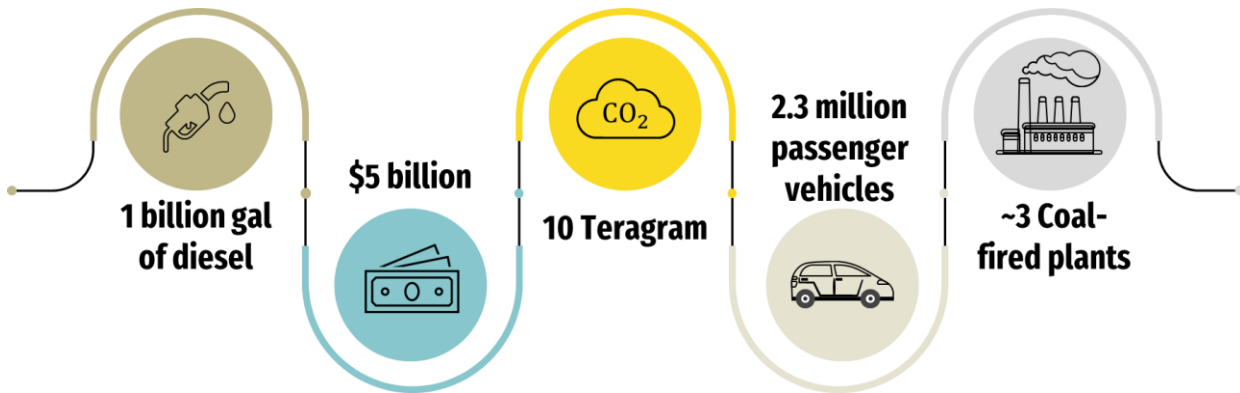


ICoN Energy

Harnessing Solar Power to Reduce Truck Emissions

Problem

- Nearly a quarter of the transportation related emissions stemmed from medium and heavy-duty trucks
- In addition to driving, idling process alone consumes more than one billion gallons of diesel annually for driver comfort loads

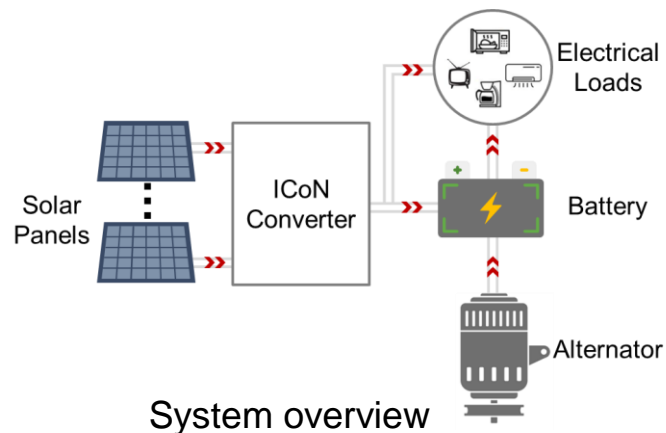
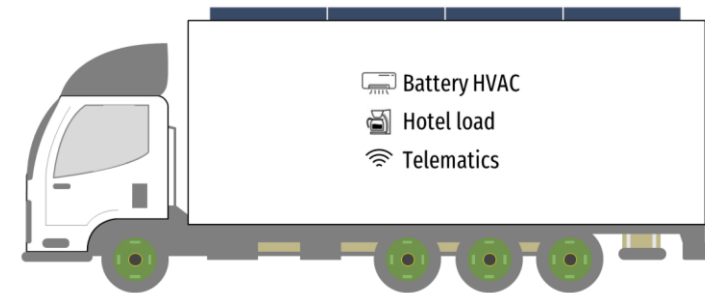


Proposed Solution

- Electric-powered Auxiliary Power Units (APUs) in combination with solar power on truck trailers can significantly reduce fuel consumption and emissions
- Innovative power electronics with flexible solar panels enables seamless integration of solar on medium and heavy-duty vehicles

Our Approach

- **High-frequency operation:** enables compact design
- **Module-level control:** maximizes power output
- **Converter architecture:** maintains high and flat efficiency for solar



System overview