

# **Electric TRU's Should Receive Incentives to Encourage Expanded Use**

In support of CARB's proposed regulation,  
with a suggestion...

California Electric Transportation  
Coalition

December 11, 2003

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## **Electric StandbyTRUs are compliant today, and Reduce a Broader Range of Emissions**

- Proven technology, offered for decades
- Electric Operation fully capable for Produce, Dairy, Deli, Meat, and Frozen Food Loads
- Electric operation is cost-effective in reducing NOx, ROG, PM, CO, CO2 and petroleum



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## 6000 Electric/Diesel TRU's in CA TRU inventory

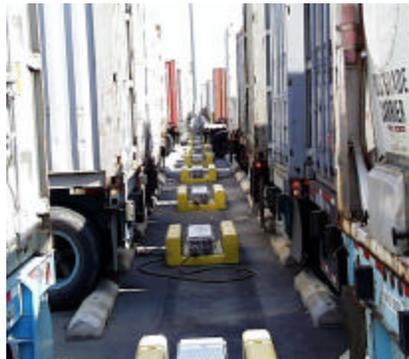
Technology	No. in CA (staff report)	CA % with E/S	Europe % with E/S
Shipping Containers	1850+	100% (staff report)	100%
Vans & Box Trucks	6600	40-80% (staff report)	Higher
Semi Trailers	32,000	0.5% (staff report)	90% (Carrier)

- That's 17% of the vehicles presently
- There is a larger percentage of electricity use in Europe

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## Electric Shipping Container TRUs are good example of the technology

- Plugged into ship's electric supply system
- Plugged into grid in Port (all-electric)
- Power from a temporary diesel generator set away from port
- 1850 gen sets in CA inventory
- 70,000 containers worldwide
- Need infrastructure at Unload points



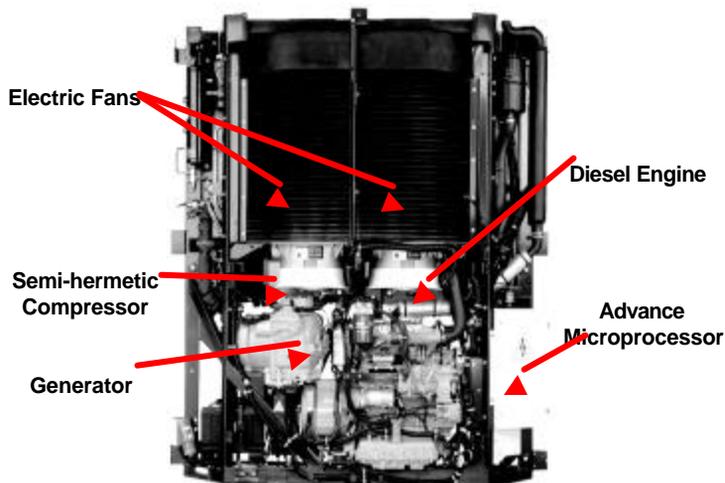
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## Capabilities need to be incentivized to other industries

- Electricity is a viable option for TRU operation
- Electric motor use extends engine life and reduces maintenance & fuel cost
- Often only infrastructure is needed
- Cost is a Barrier for Grocery Customers
- Dual Fuel Operation diversifies energy sources, reduces all emissions, electricity may cost less
- New Designs offer promise for future...
- Incentives to help expand the use of this option should be created

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## Carrier Hybrid Electric TRU Design For Trailers shows capability



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