

TMC»23

ANNUAL MEETING

& Transportation Technology Exhibition



ADVANCING RELIABILITY
Through Root Cause Analysis

#TMCAnnual23

Total Cost of Ownership Calculator for Electric Vehicles Task Force

2/27/2023

**David Black
Chairman**

ATTENTION PLEASE

- In accordance with TMC Board Policy, all personal phones without a silent feature must be turned off during business sessions.
- If you must use your phone —please leave the room!



ATTENTION PLEASE

- This is an open meeting of the Technology & Maintenance Council, held in accordance with ATA Antitrust Guidelines which are listed in your meeting packet.
- Audio or video recordings are not permitted at this session. However, photography is permissible.
- The opinions expressed in this meeting are those of the individual and not necessarily the opinion of his/her company nor of TMC unless stated otherwise.

ANTITRUST/PATENT DISCLOSURE

- To minimize the possibility of antitrust problems, the guidelines detailed in your registration packet should be followed at all TMC meetings, task force and study group sessions.
- All participants in any group involved in the development of standards or recommended practices shall disclose, as stated in the antitrust/patent disclosure guidelines in your registration packet, all patents or patent applications that are owned, controlled or licensed by the Participant or Participant's employer when the Participant reasonably believes such patent or patent application may become material to the standard or RP development process.

Constructive Comments Are Always Appreciated!

TMC welcomes your comments, but please make certain that they are constructive and appropriate before you turn in your evaluation sheet!

Thank You for Your Cooperation!

Task Force Agenda

- Introduction-TCO Calculator for Electric Vehicles
- Limit Scope of Initial Calculator
- Green Sheet-Sign-Up
- Links to Existing TCO Calculators- Reference
- Next Steps-Monthly TF Conference Call
- Goals/Timeline
- New Business
- Adjournment

Scope and Objective of this Task Force

- Develop a Comprehensive Total Cost of Ownership Calculator for Electric Vehicles
- Scope should initially be limited to Class 8 vehicles
- Key cost components and terminology should be adequately defined to apply across all OEMs and suppliers
- Calculator should be dynamic and allow for change and variables in the EV space
- Barriers should be identified, noted, researched and if possible, a placeholder created within the calculator for later use
- Collaborate with other TMC Task Forces working in the EV space

VOLUNTEERS- STAKEHOLDERS Sign-Up Sheet

- Fleet Users/Operators
- Excel Expert
- Maintenance & Repair
- Accounting & Finance
- OEMs
- Taxes/Fees/Tax Credits & Incentives
- Energy Companies/Suppliers
- EV Battery Manufacturers
- Insurance Industry
- Dealers Resale/Second Life/Disposal
- Collaboration with other TMC TFs & SGs working in the EV space

Links to Existing TCO Calculators and Considerations

- <https://nacfe.org/research/electric-trucks/medium-duty-electric-trucks/>
- <https://www.epa.gov/smartway/smartway-heavy-duty-truck-electrification-resources#costofownership>
- https://www.energy.gov/sites/default/files/2021-07/van038_Gohlke_2021_o_5-27_455pm_LR_ML.pdf
- <https://atlaspolicy.com/fleet-procurement-analysis-tool/>
- <https://www.act-news.com/news/calculating-tco-for-medium-and-heavy-duty-evs/>
- [Calculating life cycle climate impact \(volvotrucks.com\)](https://www.volvotrucks.com/life-cycle-climate-impact)

Next Steps-Goals/Timeline Discussion

- Members review existing data/calculators for relevance to our task and Class 8 Framework Development
- Propose monthly Teams meeting beginning Early April 2023
- Assign Category Leads (11 named)
- Work to identify all cost components and variables (known and unknown) by Fall 2023 for open discussion in Task Force Meeting.

save the date

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