

TMC S.11 TCO BEV CALCULATOR BEST PRACTICES ROADMAP OUTLINE

- I. **Infrastructure Planning (Jon Miller, Volvo)**
- II. **Infrastructure and Charging Development (Jon Miller, Volvo)**
- III. **Infrastructure Maintenance**
- IV. **Fire Safety/Mitigation**
- V. Operational Planning
 - A. Duty Cycles
 - B. Vehicle Weight
 - C. Management for EV Deployment
 - D. Hybrid Equipment Support
- VI. OEM Decision and Compatibility to Infrastructure and Operational Demands/Requirements
- VII. Purchase/Lease/Financing Options/Lender Risk Tolerance
- VIII. Grants/Subsidies/Private-Held Carrier Sensitive Information Release
- IX. Operations
 - A. Energy
 - 1) Understanding battery capacity
 - 2) Average range per charge i.e. 300 kWh=150 Miles
 - 3) Charging times/options/etc.
 - 4) Utility costs by state/geographic location/demand charging/etc.
 - 5) Charging Downtime
 - 6) Supplemental Vehicles
 - B. Insurance (Range)
 - C. Driver Wages & Benefits (Range)
 - D. Taxes & Fees (Range)
 - E. Licenses & Permits (Range)
 - F. Depreciation Methodology Options
 - G. Contingencies
 - H. Battery Replacement Cost (Range)
- X. Maintenance
 - A. Parts (Range)
 - B. Fluids
 - C. Labor (Range)
 - D. Tires (Range)
 - E. Brakes (Range)
 - F. Training (Range)
 - G. Software (Range)
 - H. Systems Hardware & Diagnostics (Range)
 - I. Battery Replacement Cost (Range)
 - J. Waste Management (Range)
 - K. Compliance/Reporting

Residual Value for Trade/Second Useful Life, or Salvage/Disposal Assumptions