Daimler eTruck Update
Electric Mobility Group
May 2019
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Agenda

01 DTNA’s eMobility Strategy
From prototypes to start of production, gaining knowledge is key

02 Since Capital Market Day
We presented Penske with their 1st electric truck in December of 2018

03 Co-Creation, Technology and Business
Working together with our customers makes both teams faster

04 Electric Vehicle Council
What is the Electric Vehicle Council and what did we learn?

05 Ecosystem and Consulting
How will we move from learning to implementing? Consulting services are step one

06 Product Development Timeline
Our high level product development timeline
Leading the Charge, Gaining Knowledge and Utilizing Global Production Network to “Electrify” the Future

LEADING THE CHARGE!
Proof of Concept
1x eCascadia & 1x eM2

GAINING KNOWLEDGE
Co-creation of Innovation Fleet
Test 30 eTrucks with our customers and learn together

SERIES PRODUCTION AND MARKET LEADERSHIP
Viable Customer Solutions
Scalable product for series production that can be sold at a fair price for DTNA and our customers

DTNA Electric Mobility Group Accomplishments
Jan. ’19 - CES Ride and Drive Event
Dec. ’18 - 1st eTruck of Freightliner Electric Innovation Fleet Presented to Penske
Oct. ’18 - Electric Vehicle Council
Gathered customers with fitting applications for eTrucks to have in depth conversations about next steps in eTruck deployment.
June ‘18 - Capital Market Day
DTNA debuts eM2 and eCascadia vehicles with 2021 Start of Production
"The road to emissions-free transportation is going to be driven with battery-electric vehicles"

"I believe the future is electric."

Co-creation means we will all get there faster…
Collaboration is essential for the future of electric vehicles

- Single Point Of Contact (SPOC) on both sides, to help our common customer
  - Establish EV SPOC at the utility
  - Provide EV SPOC at DTNA
- Site Assessment
  - Perform assessments of many sites, followed by more detailed assessment of candidate sites that are favorable
  - Standardization of the process is the goal
  - What information is required from DTNA/fleet customer in order for the utility to provide quick high level assessments?
- Make-ready programs
  - Line extension allowances
  - Special programs

Fun Fact: How many eSmart Cars would it take to equal enough battery power for ONE eCascadia?

- eSmart Car: 32 x 17.6kWh
- eCascadia: 550kWh

Batteries

eAxle

Electric Auxiliaries
Specification targets for series production vehicles in 2021

**eM2**
Designed for Pick-Up and Delivery Application
- Range: 230 miles
- Wheel Base: 270"
- Battery Size: 325 kWh
- Peak Horse Power: 270 kW
- Recharge Time: 60 min for 80% SOC
- Truck Class: 6-7
- GVWR: 26K to 33K lbs

**eCascadia Day Cab**
Designed for Distribution Application
- Range: 250 miles
- Wheel Base: <190"
- Battery Size: 550 kWh
- Peak Horse Power: 730 kW
- Recharge Time: 90 min for 80% SOC
- Truck Class: 8
- GCWR: 80,000 lbs

Freightliner Electric Vehicle Council takes co-creation to the next level at DTNA

Product Focused Technical Overview
- Technical presentation, Q&A

Maintenance and Safety Panel discussion

Infrastructure and Site Readiness Presentation, checklist, Q&A

TCO Funding/Incentive
- Presentation + Q&A
Our complete offering for successful eTruck deployment

DTNA will create a full ecosystem consulting service

- Electric Truck
- Route Assessment
- Economic Feasibility Analysis
- Financial Services
- Charging Infrastructure Deployment
- Maintenance & Operations
- Fleet Management
- End Of Life Services

Co-creation: the customer role in our development process is KEY

Evolution Roadmap

- Step 1: Classic
- Step 2: New
- Step 3: Classic
- Step 4: New
- Step 5: Classic

Our e-Mobility Approach

- Customer focused through co-creation
- Built on a proven industry leading platform
- Continuous development of technology
- Rely on strongest dealer network
- Providing a holistic end to end solution
Thank you for your attention!

Diesel powertrain to full electric powertrain – Gen 1 shown

Powertrain: Engine Transmission ATS

Electric Auxiliaries

ICE TO BEV

Drive Line

Diesel tanks

Batteries

eAxle