Zero Emissions Trucks and the Low Carbon Future

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Ryder is investing in “customer-facing” technology to address disruption and digitization across its entire business.

Key Strategic Investment Highlights

- **RyderGyde**
  - Single, collaborative, digital platform for real-time visibility to all goods moving in and out of the supply chain. Empowers decision making and drive efficiencies.

- **RyderShare**
  - Peer-to-peer commercial truck sharing platform that makes it easy for businesses to share trucks with each other and monetize idle assets.

- **RyderView**
  - RyderView Last Mile tracking solution includes consumer self-service scheduling and provides 100% real-time, end-to-end shipment visibility and tracking for shippers and consumers on last mile deliveries.

- **RyderConnect**
  - One-stop shop for API’s enabling connected 3rd party telematics data and accelerating the development of a suite of visibility and maintenance services.

- **Electric Vehicles & Autonomous Vehicles**
  - Advanced Vehicle Technology investments including: autonomous vehicle pilots and partnerships to validate service as well as electric vehicles for final mile, urban delivery and more.

- **Smart Warehouse**
  - Multiple smart warehousing technology including autonomous robots, drones, sensors & IDs, wearables and more being tested and deployed across multiple warehouses.

- **Used Vehicle Sales**
  - E-Commerce platform site similar to “Carvana” of Used passenger cars.

- **Revolutionary approach to selling used vehicles using new digital capabilities.**
Alternative Power Experience

• Natural Gas – CNG & LNG
  – 15L Westport HPDI
  – GM 6.0L
  – 6.7L ISB-G
  – 8.9L ISL-G
  – 11.9L ISX-G

• Electric / Hybrid
  – Freightliner eM2
  – Freightliner eCascadia
  – Workhorse E-Gen
  – Workhorse C-1000
  – Chanje V8070
COOP.com - New Tech Demo Platform

2020 Xos SV01 - 100% Zero Emissions Fully Electric Last Mile Delivery Vehicle

2020 Workhorse C1000 - 100% Electric Step Van
ABB & In-Charge Energy Partnership
End-to-End Commercial EV Infrastructure

- Strategic partnership to enable EV adoption
- Management of EVs will be very different from ICE
- Software & hardware deployment

**Reduce**
Reduce building energy load through implementation of energy conservation measures (ECM's)

**Produce**
Design, Engineer, Build EV charging and behind-the-meter infrastructure. Harness all available federal, state, local tax/unit incentives, grants.

**Operate**
Provide ongoing Maintenance, Certification, Software Integration and Energy Management

**Save**
Minimize installation costs, optimize energy use, eliminate demand charges, reduce operating expense
In-Charge Installations

Fontana, CA
150kW ABB Terra184
200 AMPS

Northridge, CA
50kW ABB Terra54
125 AMPS
Site & Fleet Management Tools