Key Facts about Deutsche Post DHL



EXAMPLES



Approximately 480,000 employees in more than 220 countries/territories (including nearly 60% outside Germany)

64m letters/3.4m parcels each workday in Germany/more than 27,000 sales outlets in Germany

Group revenues1): EUR 55.1bn/Group EBIT1): EUR 2.86bn Market capitalization2): EUR 32.039bn

 \sim 650,000 international express shipments per day (2013) (Time Definite International) (+8% vs. previous year)

3.9m tons of air freight/2.8m TEU3) of ocean freight in 2013

23m square meters of warehouse space in contract logistics

¹⁾ Financial year 2013 2) As of 12/31/2013

³⁾ TEU = Twenty-foot equivalent unit

DPDHL GoGreen Programme



Deutsche Post DHL was the first globally operating logistics company to set itself a concrete CO₂ efficiency target

- DPDHL CO Index -



We aim to improve our CO2 efficiency including subcontractors by 30% by the year 2020, compared to our 2007 baseline.

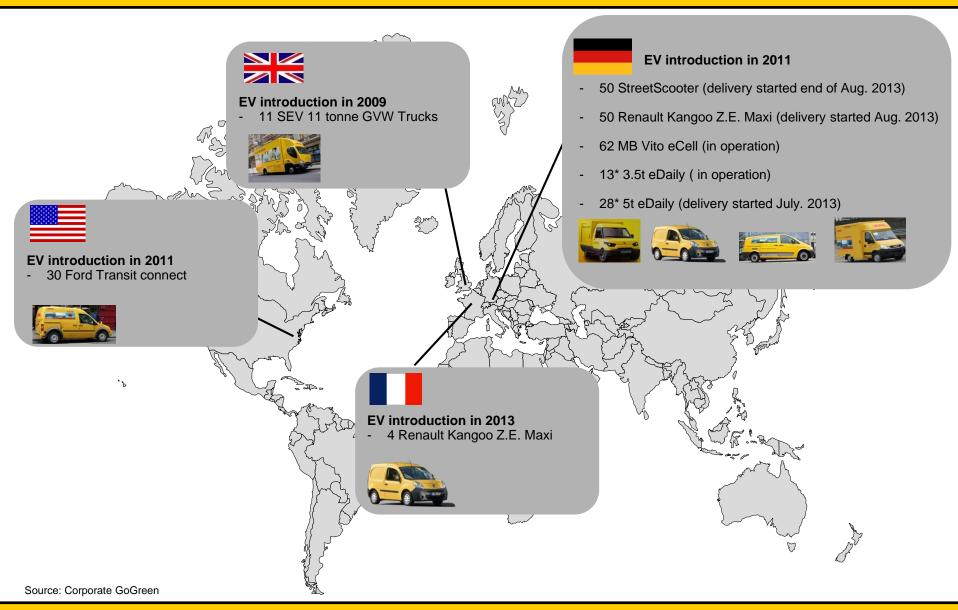


Environmental protection with Deutsche Post DHL At the end of 2012 we had surpassed our interim target and delivered 16% improvement.

Source: GoGreen, Deutsche Post DHL, Green Strategy 1) Direct and indirect emissions Scope 1, 2 and 3

DPDHL Global E-Mobility Fleet



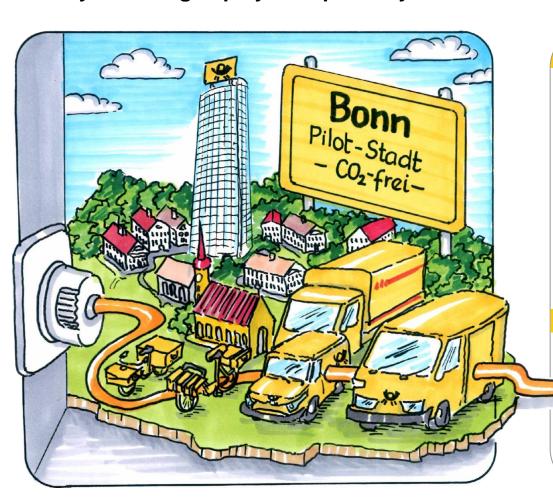


CO₂-free delivery – Bonn - Germany



From July 2013 onwards the first 79 electric vehicles for mail and parcel delivery are being deployed in pilot city Bonn





OBJECTIVES

- Impact on operation processess when switching entire fleet to electric vehicles
- Detection of operational applicability of vehicles under highest load condition
- Design and construction of charging infrastructure solutions to major fleet
- Security of energy supply, including energy network design
- Successful development of intelligent charging system software

FACTS AND FIGURES

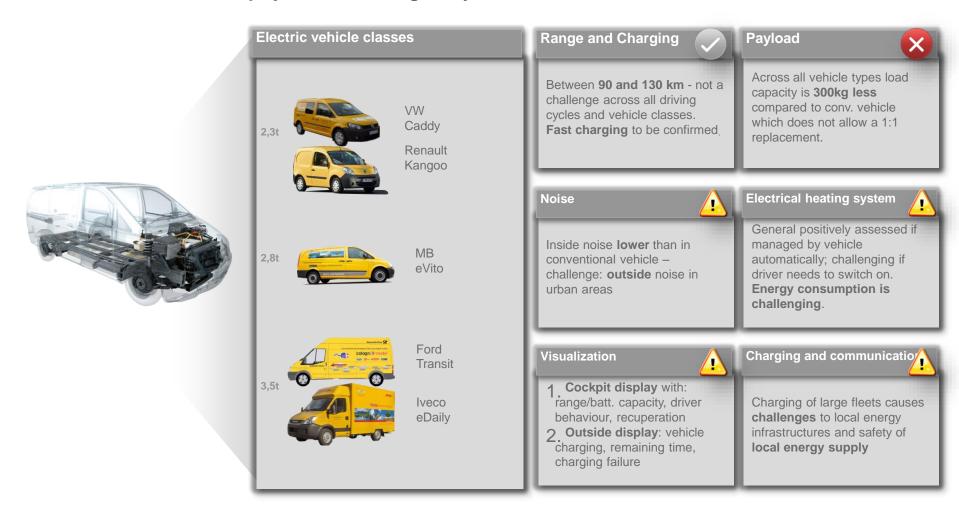


- First Phase with **79 vehicles** (more than 140
 vehicles planned before 2015)
- Reduction of more than 500 tCO₂ p.a.
- Project partners University of Aachen, Langmatz

Intermediate vehicle test results



Overall functionality generally fits to operations, smaller issues could be solved short-term, payload challenge key to success



Source: GoGreen, Deutsche Post DHL 1) Comprehensive winter testing results outstanding

DHL Supply Chain – UK - Electric Trucks



DSC UK have had eleven Smiths electric trucks between 9-11 tonnes in operation for the past 5-6 years.

Seven of these are on specific City deliveries for TK Maxx, the remainder are working to complement our pilot projects in Retail Consolidation Centres.

In the early years the trucks suffered from poor reliability, largely due to the original "Zebra" Nickel Chloride batteries. Since converted to Li-ion they have proved to be reliable through both summer and winter periods.

Charge times are typically 8 hrs for up to 160km driving.

Payloads are limited leading to specification of higher gross weights where 7.5t conventional trucks may have been adequate.

Costs of the vehicles when new were around three times that of a conventional vehicle

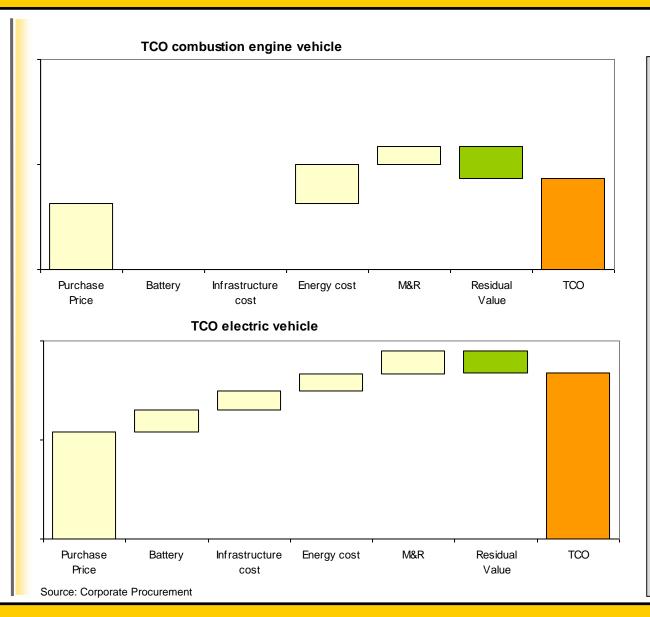
Sites from which the trucks operate are mainly contracted to electricity from renewable sources, so can effectively be said to be zero emission.





Cost Components of Diesel Engine vs Electric Truck





Illustrative

Combustion Engine

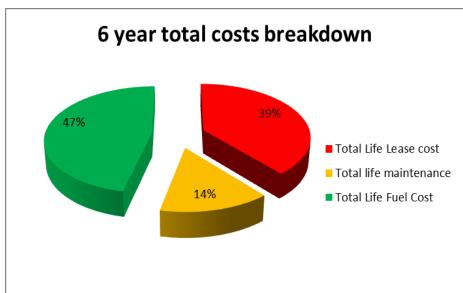
- Total lifetime costs highly predictable
- Residual value reasonably predictable – established, stable after-market
- Manufacturer underwrites on M&R, residual values

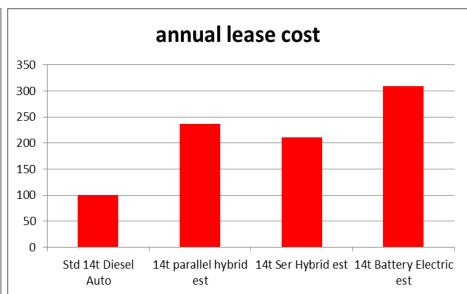
Electric Power

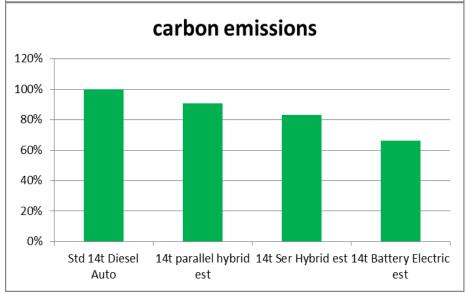
- Total lifetime costs not currently predictable
- Higher initial cost, battery and infrastructure are additional components
- Residual value predictions unreliable – no established after-market for SCV
- Manufacturer underwrites on M&R, residual values not widely available

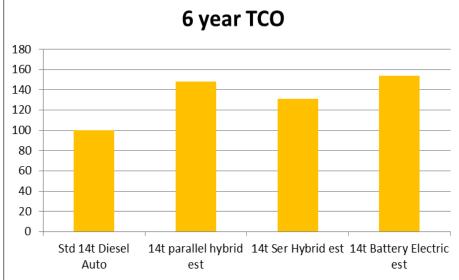
Urban Truck Comparison





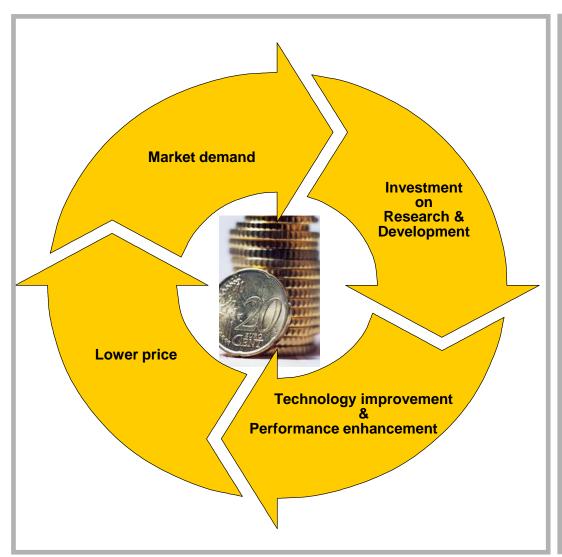






Original Equipment Manufacturer (OEM) Positioning



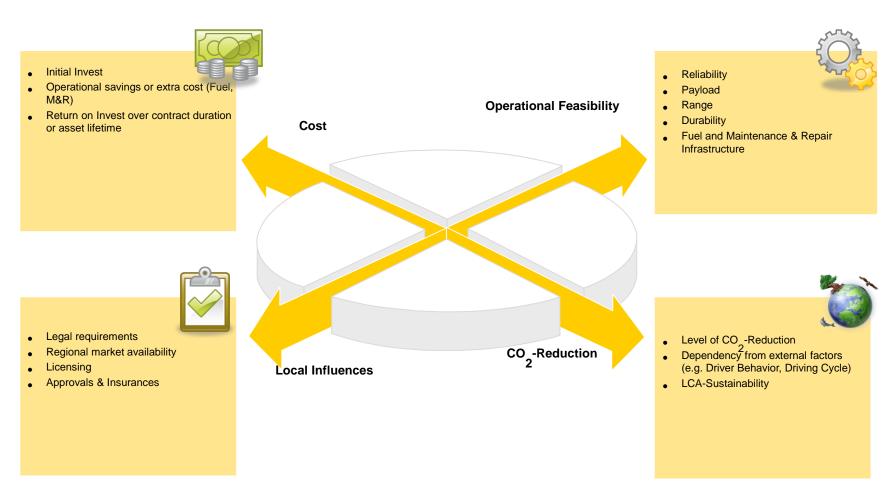


- Market demand drives further investment on R&D
- More investment leads to technology improvement and performance enhancement
- Better technology leads to lower price
- Lower price makes the product affordable for more customers and drives demand
- Due to the limitation of battery technology, <u>electric vehicles are</u> <u>not in a positive cycle of</u> development
- OEMs are therefore reluctant to develop further the electric vehicle and are therefore <u>committing</u> <u>limited R&D investment</u>
- The cycle is only likely to be broken by <u>legislative restrictions on fossil</u> <u>fuels or a quantum leap in battery</u> performance

Green Supply Chain Design Process



4 factors determine the suitability of solutions and lead to diversified approaches in different regions, operations and vehicle classes

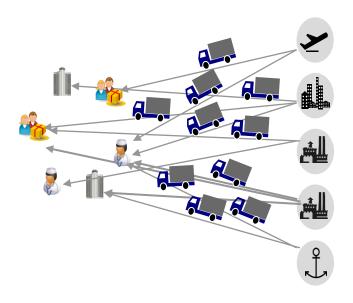


Source: DPDHL, 026 GoGreen

Urban delivery consolidation centres

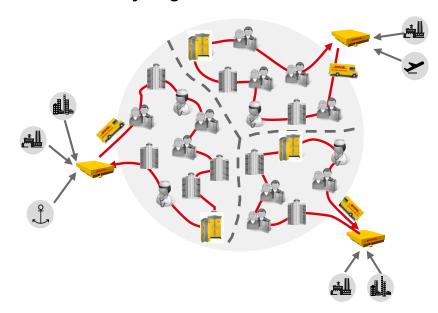


Current situation



Multiple trucks/vans from suppliers deliver direct to urban locations Multiple vehicles often to the same delivery point at different times Multiple resources poorly utilised whilst negotiating urban traffic and delivery points Trucks/vans of standard build to cover stem mileage and delivery

Vision DHL's City Logistics



Goods from suppliers delivered to urban consolidation centres outside congestion area

Deliveries consolidated into loads for multidrop into sensitive areas

Vehicle movements significantly reduced Final delivery vehicles low/zero emission & better attuned to urban deliveries





Environmental protection with Deutsche Post DHL

Thank You!

