



UK Urban Delivery Vehicle Requirements

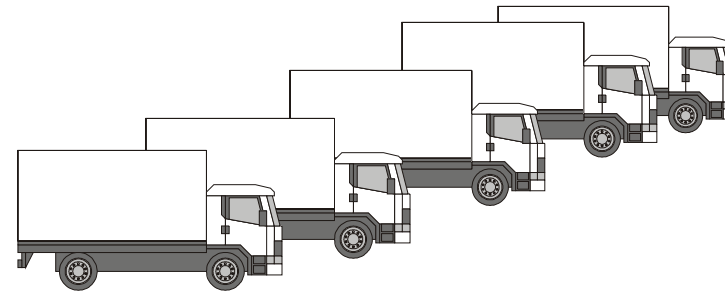
Jim York

Senior Engineering Operations Manager - Exel Europe





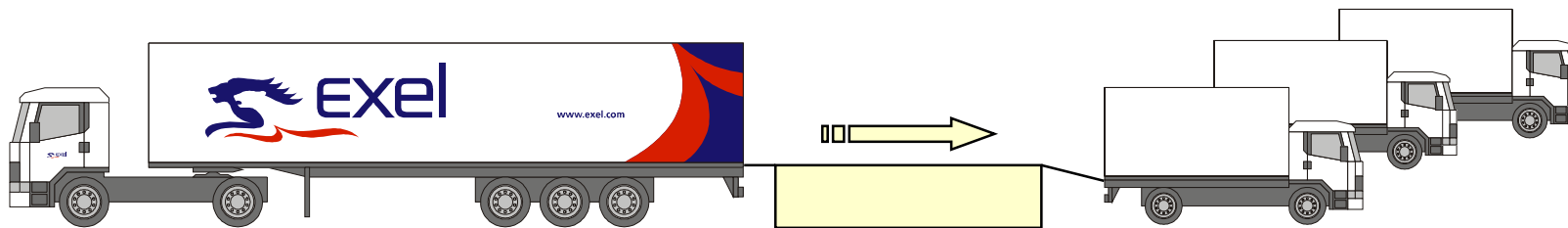
Large vs Small



- 1 x 28t artic
(80,000kmpa)
- Optg Cost £70k/yr
- Fuel used 26,000 litres
- Emissions factor 1
- Road Space used 35m²

- 5 x 7.5t rigids
(40,000kmpa each)
- Optg Cost £150k/yr
- Fuel used 37,000 litres
- Emissions factor 1.4
- Road space used 75m²

Urban Distribution Centre Transshipment Operation



- Additional Handling
- Additional Cost
- Requirement for sub-urban depots



Vehicle Configuration



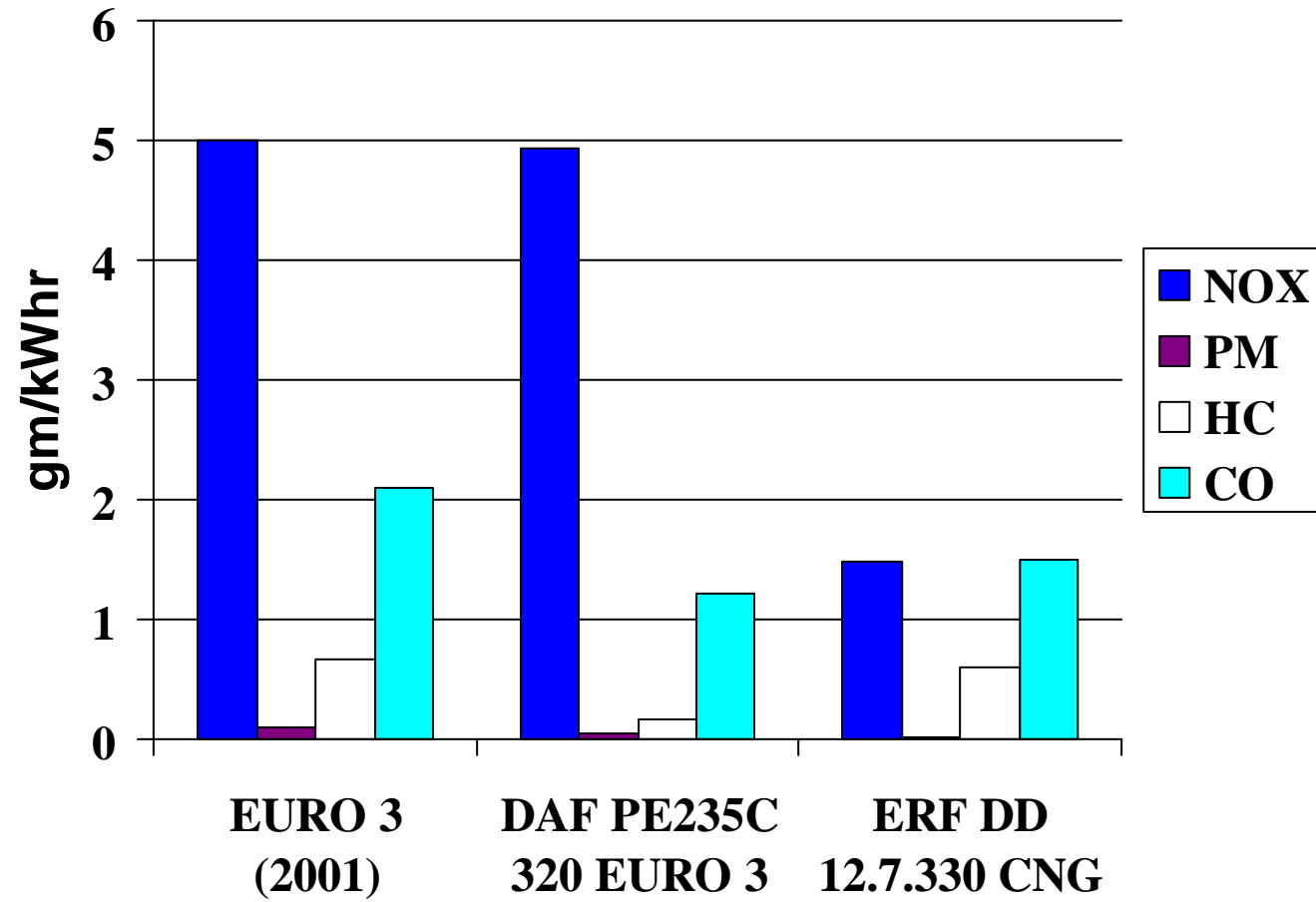


www.exel.com



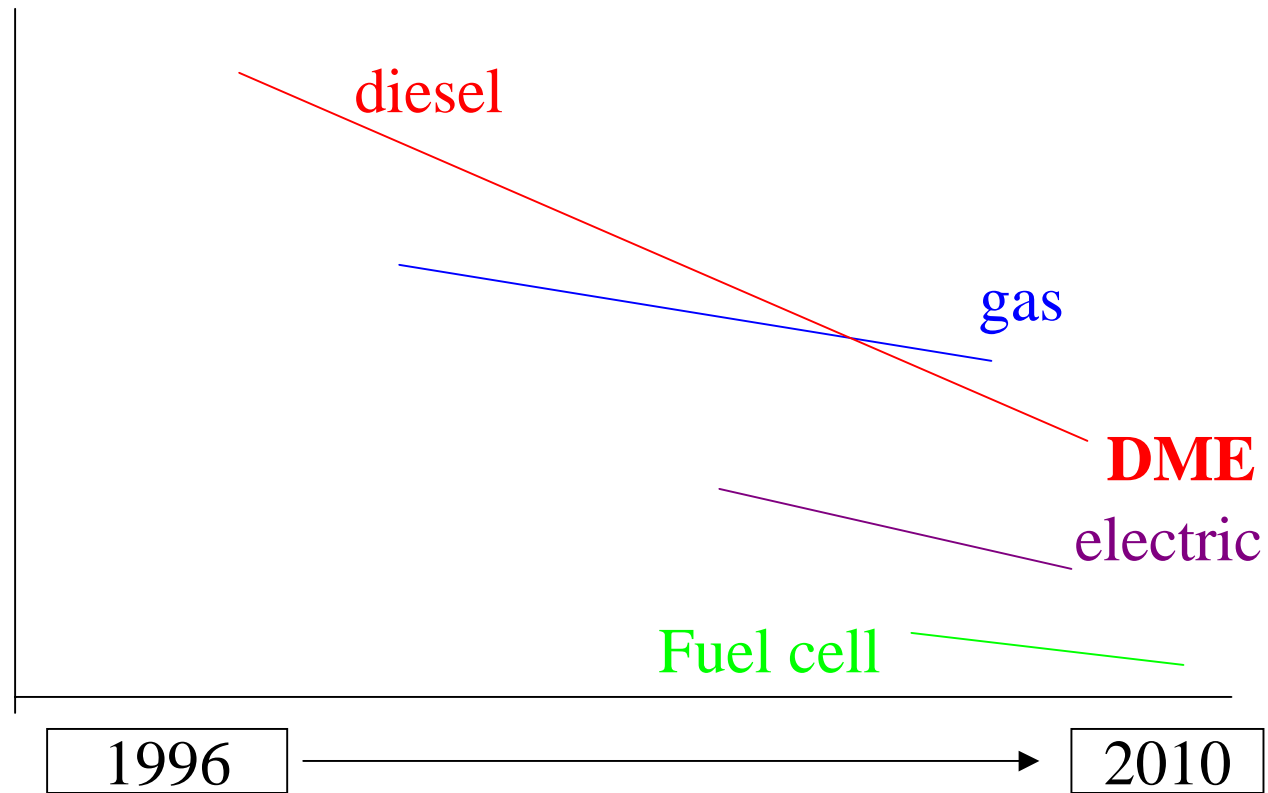


Alternative Power Sources



Comparative Development

- emissions







Load Handling





www.exel.com

Telematics

- Ability to dynamically schedule vehicles, for improved efficiency
- Ability to better forecast arrival times at drop points, so reducing waiting time and congestion
- Ability to monitor position and status of deliveries
- Ability to re-direct vehicles to avoid potential hazards/hold-ups

Basic Vehicle Requirements

- Good productivity....volume/payload/performance
- Low operating costs...fuel economy/durability
- High manoeuvrability
- Ease of Operation....auto-trans, good visibility
- Telematics system
- Low noise
- Low emissions

Off-loading Requirements

- Good load space....clear uncluttered cube
- Low floor for ease of manual handling
- Roll on/off facility for roll pallets, dollies, etc.
- Low noise operation - floor/walls/doors
- Fast access, but kerbside security
- Optional kerb side access
- Possible swap body or containerisation

