











REEL involves 45 organizations all around Sweden in various types of industries

































































































In the project 60 logistic solutions are established and cover multiple applications with trucks in the range from 16 to 70+ tons





























































einride







































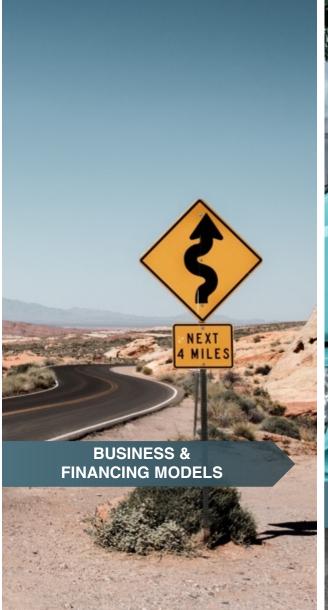




The parties work together in horizontal work packages, harmonized solutions are developed to accelerate the transformation









- Two battery-electric rigid trucks each with a refrigerated superstructure and a total weight of 27-tons.
- Operate in 2-shifts (06:00-22:00) on weekdays and 1-shift on Saturdays and Sundays. The trucks operate approximately 250 km on weekdays and 120 km on Saturdays and Sundays, 350 days a year

The trucks and their batteries are fully depreciated in 6 years.

Installed battery capacity is 300 kWh and the total vehicle incl. refrigeration consumes 1.25 kWh/km, the equivalent diesel vehicle consumes 0.27 l/km.

In this case, the extra weight of the batteries has no impact on the operation, as the goods are rather limited on volume.

Charging take place at the same time as reloading at the terminal takes place without additional downtime. In addition both trucks are charged in a depot at night.

The charger at the terminal has an output of 175 kW, each vehicle uses this charger for approximately 2 hours per day. The chargers used at night have an output of 25 kW and are used for approximately 6 hours. All chargers are fully depreciated after 6 years. A service agreement is paid for all chargers

- It must be noted that this is on the condition that public co-funding can be obtained for both charging infrastructure and trucks.
- The comparison above do not include interest rate and the additional time for preparatory work for the electric solution that the logistic operator needs to do with regards to discussions with e.g. transport buyers, hardware suppliers, grid companies as well as applying for public co-funding. Maintenance cost has been noted to be approximately the same for both solutions and is not included.

Cost element	Electric (SEK/yr)	Diesel (SEK/yr)	Comments
Hard- and software			
Trucks (incl. superstructure)	(2 x 3 700 000 x 0.8) / 6 = 986 667	(2 x 1 800 000) / 6 = 600 000	2 trucks, 6 yr depreciation, public co- funding for electric truck 20%
High power charger	(790 000 x 0.6) / 6= 79 000	N/A	6 yr depreciation, public co-funding for charger 40%. Incl. installation.
Low power charger	(190 000 x 0.6) / 6= 19 000	N/A	6 yr depreciation, public co-funding for charger 40%. Incl. installation.
Fuel, power and energy			
Service agreement for charger	13 000	N/A	
Power tariff	94 500	N/A	
Energy and grid transmission cost	186 250	776 439	Mileage / yr 2 trucks: 149 000 km 1 SEK / kWh and 19.3 SEK / lit diesel
Staff			
Drivers	2 880 000	2 880 000	2400 h / truck per year. 600 SEK / h
Total cost	4 258 437	4 256 439	Cost parity

