

The World of Volvo Car Corporation



Sweden

- · Head office, Gothenburg
- Product development, Gothenburg
- · Marketing, Gothenburg
- Administration, Gothenburg
- Design centre, Gothenburg
- Component manufacturing, Skövde, Floby and Olofström
- Car production, Gothenburg and Uddevalla

Volvo Car Corporation is represented in about

100 countries at approximately 2,300 dealers

Belgium

Car production, Gent

Spain

Design centre, Barcelona

USA

Design centre, Camarillo

Sweden	14,550
Belgium	3,981
China	732
Thailand	0
Malaysia	341
Market companies	1,908

TOTAL 21,511

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Volvo Car Corporation Sweden's second largest export industry



Z V Z















XC70







Export

- 1. Ericsson
- 2. Volvo Personvagnar AB
- 3. AB Volvo
- 4. Preem AB
- 5. AstraZeneca AB
- 6. SSAB AB
- 7. Sandvik AB
- 8. LKAB
- 9. AB Tetra Pak
- 10. Saab (koncernen)

Source: Nordic Netproducts AB

440.000 cars / yr = 2.000 / work day = 80 cars /hr

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Strategic Challenges for the Industry



- Increasingly growing pressure to reduce CO₂ emissions
- Very strict CO₂ targets on all major markets 2020:
 - EU 95 g/km
 - US 54,5mpg (2025)
 - CH 5,0 I/100km
- The CO₂ targets require some level of electrification
- In addition; specific EV requirement on some markets, such as California ZEV mandate
- In addition to legislation the major market driver is CO₂ taxations and Bonus/Malus systems which leads to very fragmented market situation with no harmonization
- A clear political agenda to reduce CO₂ emissions and to reduce dependence on crude oil as sole energy source

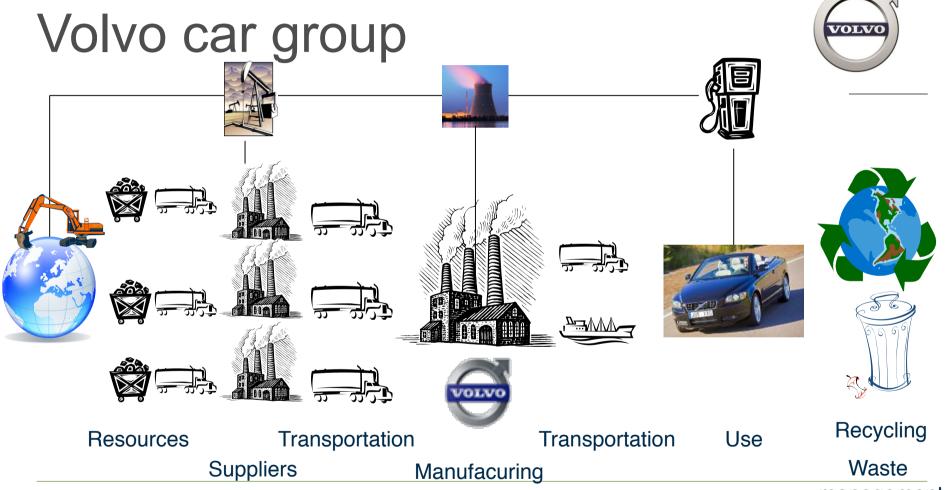
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Strategic Challenges for the Industry



- A successful solution requires three main elements:
 - Feasibility it must be technically possible
 - Desirability customers must want it and be willing to pay for it
 - Viability it must be possible to generate profits at least in the long run
- All three components must be in place for a successful implementation plan. Currently electrical vehicles struggle with all three elements.
- There is a clear need for an increased level of electrification in all vehicles the coming years.
- VCC have started an ambitious electrification program with C30 BEV and V60 Plug-in-Hybrid. The next phase will be very critical if the roll-out should continue as needed.

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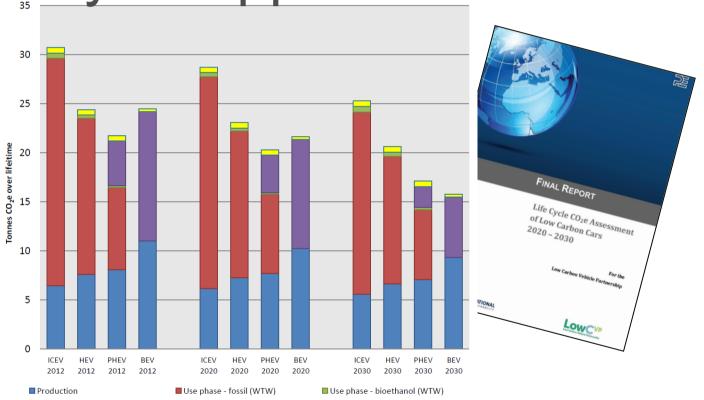
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life cycle approach

☐ End of Life

■ Use phase - electricity (WTW)





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Environment, FRAME WORK



Energy efficiency

Minimize the energy needed to use our products and their functions.

Health

 Personal health for our customers and people who come in contact with our products.

Resource efficiency

- Maximise the use of renewable, recycled materials and the reuse of our products.
- Minimise the amount of material and energy needed for our systems and compontents.

Technology roadmap risks





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