

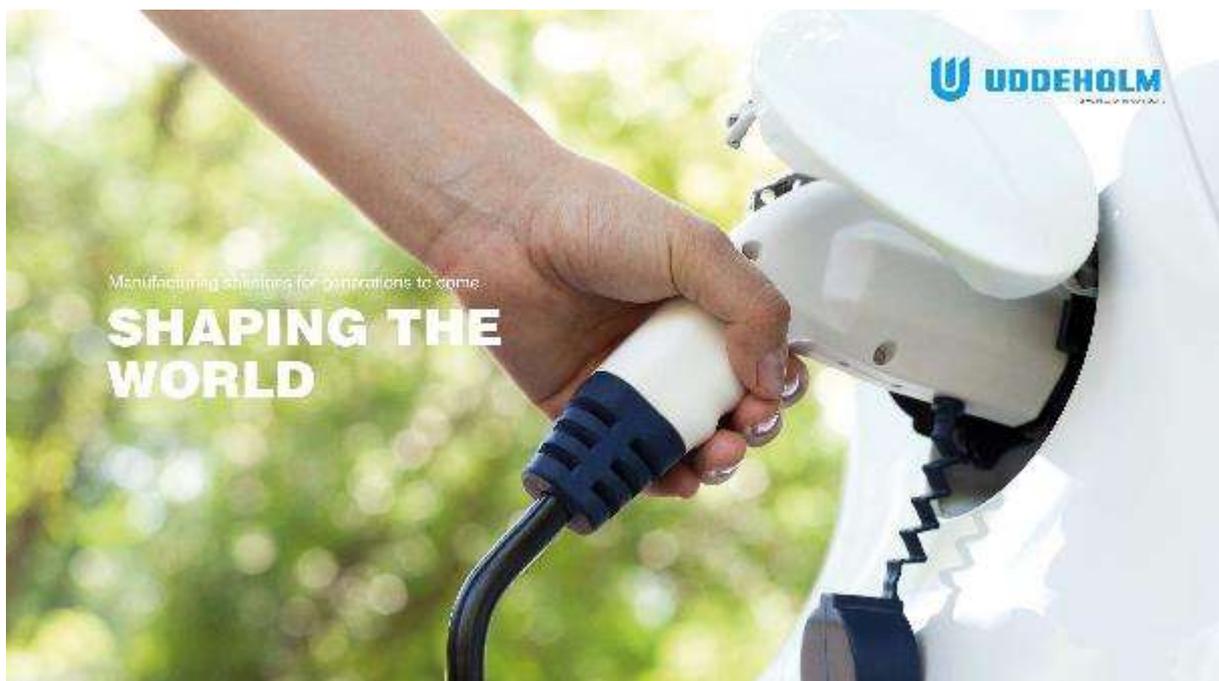
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Richard Oliver – Hot Work Product Manager

## Uddeholm Orvar Supreme

# High Sustainability & low CO<sub>2</sub> footprint

Uddeholm uses a highly sustainable electrical supply that consists of fully fossil-free sources. Whereas most global tool steel companies will rely upon a high amount of fossil energy with some renewable and sustainable energy, the Uddeholm supply system for electricity is 100% fossil-free.



This is very important for products such as Uddeholm Orvar Supreme where the material has to have multiple melt & heating processes to achieve its high quality. The EAF (Electric Arc Furnace) uses ~656kWh per ton of tool steel manufactured and the ESR (Electric Slag Remelting) uses ~1000kWh per ton of tool steel manufactured.

This is a massive amount of electricity and today 100% of this electricity used at Uddeholm has a zero CO<sub>2</sub> footprint from 3 fossil-free sources.

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Registration number: 556046-2755 Registered at the Commercial Court: Hagfors, Sweden

- Nuclear Power (51,2%)
- Hydro Electric Power (46,3%)
- Wind & Solar (2,5%)

In addition, the capability of Uddeholm to recycle high percentages of its tool steel is very impressive, if we take Uddeholm Orvar Supreme as an example, ~91% of this product is from recycled scrap sources. The major source of scrap (>50%) is from our own Uddeholm Orvar material either reused in production or returned as bought scrap. The rest of the scrap and alloys used are sourced from recycled and sustainable sources. What is not recycled are the small amount (<10%) of other alloys and slag formers.



If you are a car manufacturer why go to all the trouble and effort to develop a cleaner hybrid car or fossil-free electric car.....only to have its parts made in tooling using tool steel from highly polluting energy sources?

You do not have to! Use Uddeholm Orvar Supreme with its high sustainability & low CO<sub>2</sub> footprint.