



cluster conference 2023

Sustainable Production

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SCANIA



Sustainable production





Loss bifurket i 10 november 2021 / Laisnerik Jörnving, Scania

Energy Roadmap P&L



Background and target.

- Reduction of P&L:s total energy use to 5,1 MWh/Vehicle (-25%), between 2015-2025.
- The target per PRU is 1,5% energy improvement / year for assembly and 3% for others
- Increased knowledge and energy awareness amongst Scania's employees.

Way of working.

- Focus on implementations and improvements.
What can we do in our department?
- Plan for good progress in the Scorecard activities

Prio activities 2023

What	How	Std
Elimination of energy waste	Energy Kaizen	Energy Kaizen Leader
Washing machines - Drying with compressed air	Convert to high pressure fans	proven technology
Lighting- Retrofit to LED lighting	According to Scania std	proven technology
Moving from "always on" control to demand driven control	Processes with various media demands- Install VFD	proven technology
Reduce idle losses	Night patrol	According to Scania std
Purchasing new equipments	Phase 1, checklist for energy efficiency	Energy demand in PEIP

Waste roadmap – overall activities



Background and target

- 50% reduction of non-recycled waste to 150 kg per produced vehicle by 2025 (2015)
- Waste material should always be considered as a resource and as such be utilized instead of discarded

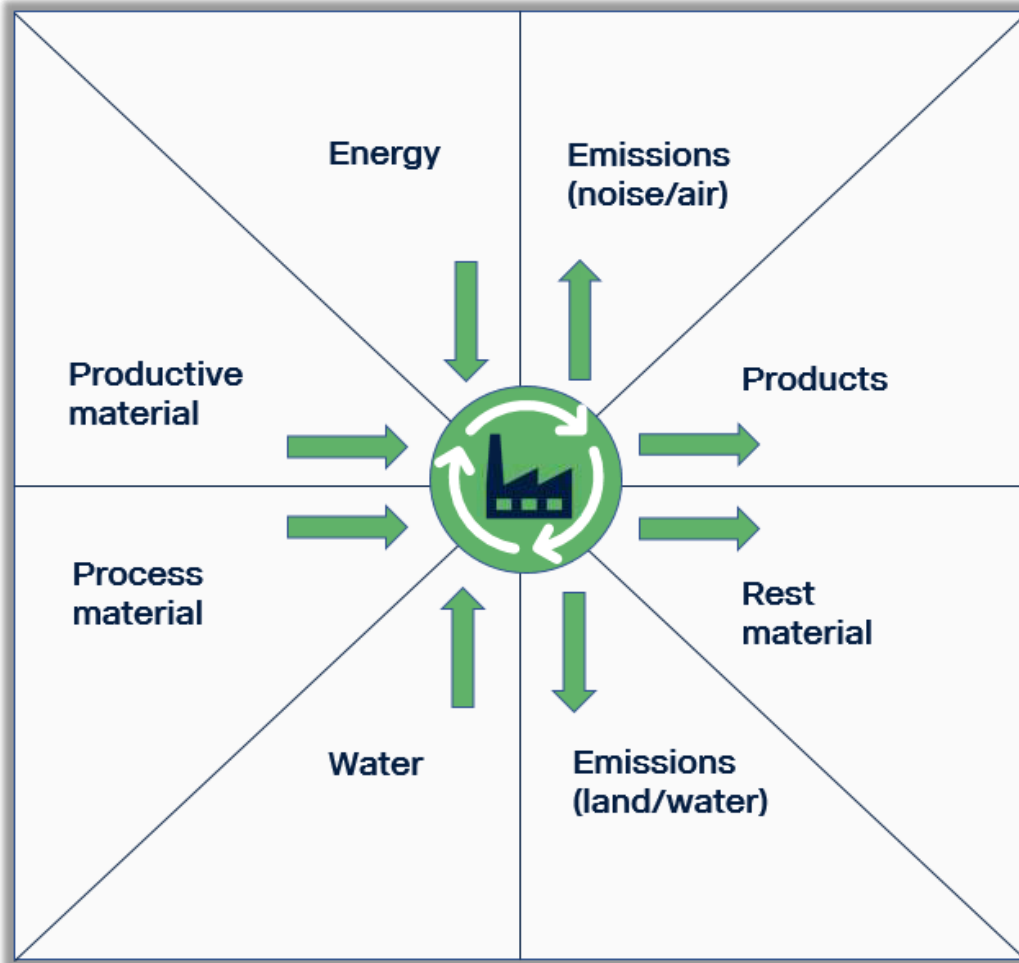
Way of working

- Environmental principle for waste ("Practicing sustainable waste management")
- Consider prevention and reduction of waste at an early stage when doing **changes and in projects**.
- Analyze the amount, type and why the waste is generated and where it ends up. Which is the most common type and focus on what we can do locally in our department.
- Decide together what you will focus on - start with something that is easy to implement. Measure and follow up - make visible and spread between departments and the effect it has given.

Focus areas	Contributes to	Activities
Landfill	More reuse and/or recycling of materials Less landfill	1. Find opportunities of recycling/reuse of grinding mulch in collaboration with different stakeholders 2. Recycling of blasting dust in collaboration with Ragn-Sells and SSAB 3. Recycling of dust/sand from the foundry in collaboration with external supplier Weber/Saint
<u>Energy recovery</u>	More reuse of used and regenerated oil More recycling of wooden material More recycling of plastic material Less transports, right data basis to make decision of relevant activities to reach target	1. In collaboration with an external party, investigate the possibility of regenerating used oil in order to be able to reuse it in our operation. 2. Investigate the possibility of further recycling / reuse of wooden packaging . 3. Investigate the possibility of recycling in units where smaller quantities occur and where local compactors are not an option 4. Investigate possibilities to increase capacity of internal waste water treatment in Södertälje, if not possible look into how to report waste water treated externally (treatment of water not 100 % energy recovery)
Methods and tools	More sustainable use of resources Doing Right from the start Management attention and spreading of good examples	1. Develop a follow up method for waste kpi:s and activities. 2. Develop a LCA tool for evaluating the environmental impact of waste management and materials. 3. Create a checklist that can be used in purchasing and procurement to avoid unnecessary and complex materials 4. Create standard for single-use packaging materials to ensure reduced usage and secure recycling of packaging material that is used.
Processes/ Way of working	Less use of resources Less cost Less working time	1. Update PEIP and TFP on how to ensure a sustainable waste management when doing changes in our operations. 2. Define and align synergies waste roadmap/ sustainable packaging material roadmap



Green Performance Map / Green Kaizen



Need of a method that:

- is easy to use
- is time efficient
- is engaging
- results in an action plan

Energi kaizen

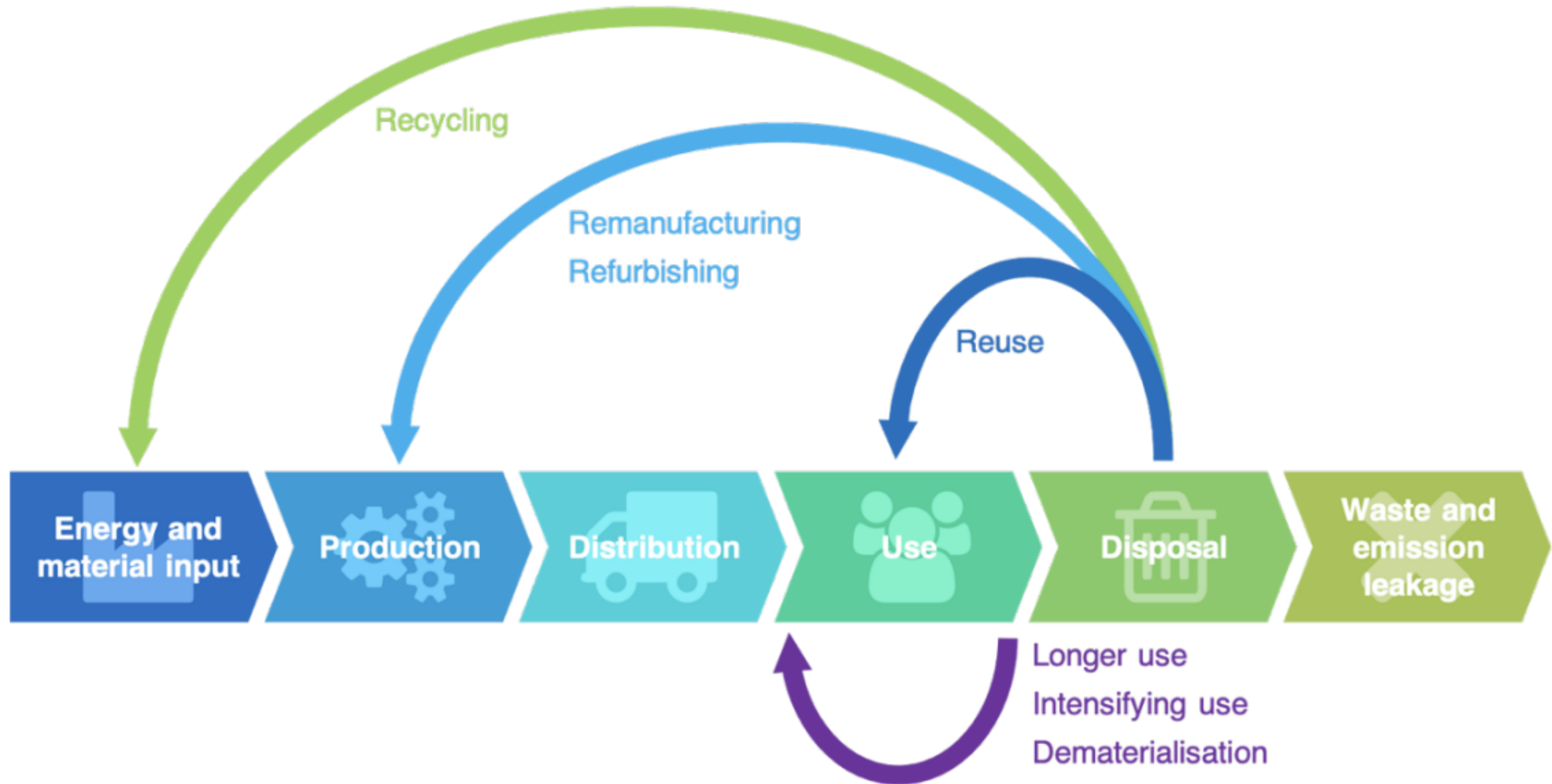


Mapping

Energy Kaizen exercise



Circularity in industrial production





SuPr⁹

A national node for sustainable production

SuPr combine leading R&D actors within Sustainable Production. We work together to initiate and implement new sustainable solutions for the future of Swedish manufacturing industry.

Founded and financed by:
Vinnova, Stockholm Region
City of Södertälje
AstraZeneca, Scania
KTH, Södertälje Science Park

Companies and R&D actors use SuPr in order to..



Spread methods and opportunities regarding more sustainable production to companies

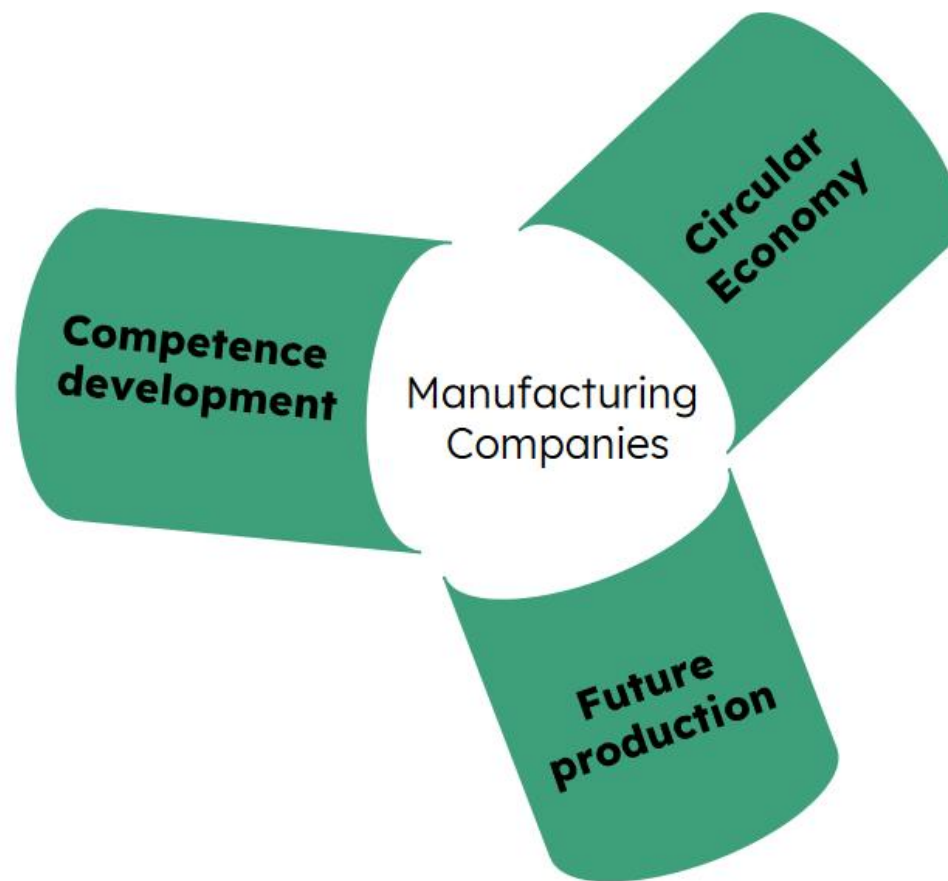


Communicate and show good results from companies who already makes sustainable production happen



Initiate, coordinate and participate in research and development projects concerning sustainable production

SuPr projects and activities for manufacturing companies



Competence transformation for a sustainable automotive industry



Climate declarations for competitive sustainability



"First Aid" Sustainability Guideline



KICK START Circular Economy



Expert group for circular production



Industrial network for Sustainable Circular Production

