

# **CE-RISE, INDUSTRY, AND HASSLE**

JAHANZEB TARIQ | VIESSMANN CLIMATE SOLUTIONS



Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI

EU Framework Programmes













# **CE-RISE**, regulation, industry





REGULATORY LANDSCAPE



INDUSTRY & HASSLE

## **Policy landscape overview**







## EU GREEN DEAL - A roadmap for Europe to become a sustainable economy

REPORTING AND FINANCE



#### CIRCULAR ECONOMY AND COMMUNICATION

Taxonomy: Defines sustainable activities

Circular Economy Action Plan: Introduces actions to make sustainable products the norm in the EU



## **CSRD** Corporate Sustainability Reporting Directive Plan to

standardise sustainability reporting

#### **ESRS**

Reporting Standards: Detailed requirements for sustainability (ESG) i ting ESRS E5: Resource use and Circular Economy - reporting standards specifically related to products and

materials

**European Sustainability** 

#### **ESPR**

**Ecodesign for** 

Sustainable **Products** Regulation: Will set specific sustainability product requirements

#### CPR

Construction **Product Regulation:** Will set sustainability requirements for construction products

#### Green claims

To communicate environmental performance, it will be required evaluate products with a **Product Environmental** 

Footprint (PEF)

... OTHER RELEVANT **INITIATIVES:** 

Critical Raw Materials Act

**Chemicals Strategy** 

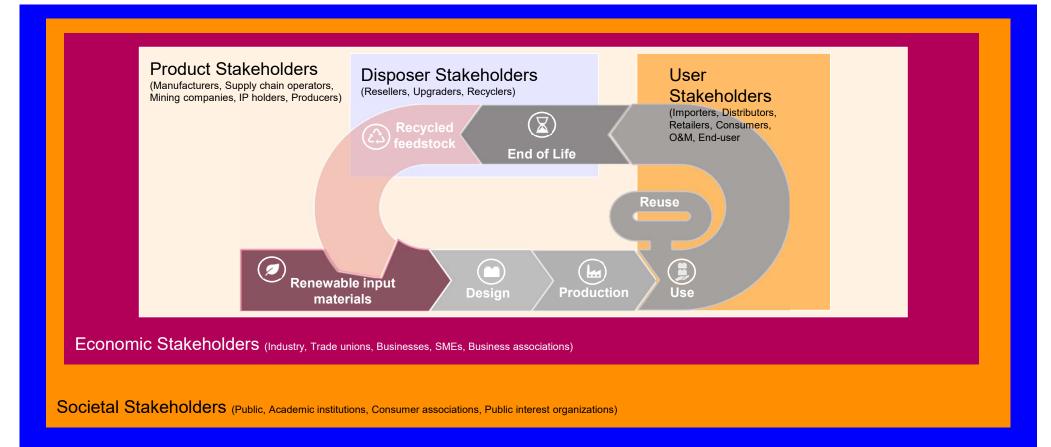
Battery regulation

Includes only policies thought to be most relevant to design requirements

## **Stakeholders**







Governance Stakeholders (EU commission, Policy Makers, National Competent Authorities)

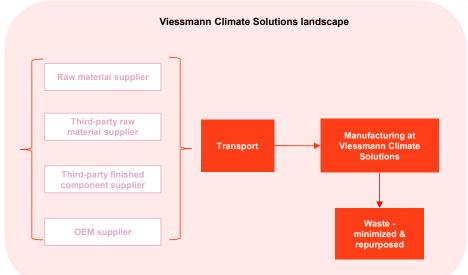


# **Upstream value chain**





Extraction of material production



#### Data:

- Supply chain transparency (including supplier code of conduct)
- BOM
- · CRM/SRM identification
- · PFAS identification
- · Conflict minerals identification
- · Rare earth magnets identification
- · Hazardous material identification
- ESRS E5-4/E5-5 disclosure compliance
- · Contain any third-party EPD certification

Make 80% of the difference

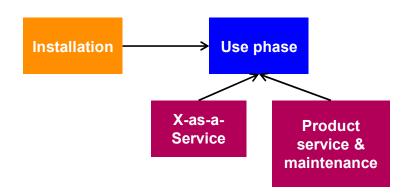




## Installation and use phase







## PRODUCT INFORMATION

- Energy label and Eco design
- Installation & service instructions Connection and wiring diagram
- Maintenance checklist
- Operating instructions for system operator
- Product datasheet
- Product warranty
- Service & repair instructions for contractors
- · Compliance to ROHS, REACH, and WEEE
- Mention of reused/refurbished components

## **DETAILS FOR CUSTOMER**

- Purchase history
- Repair & maintenance history
- Installation partner information
- O&M partner information
- Safety instructions
- Feedback form for engagement
- RE-strategies participation

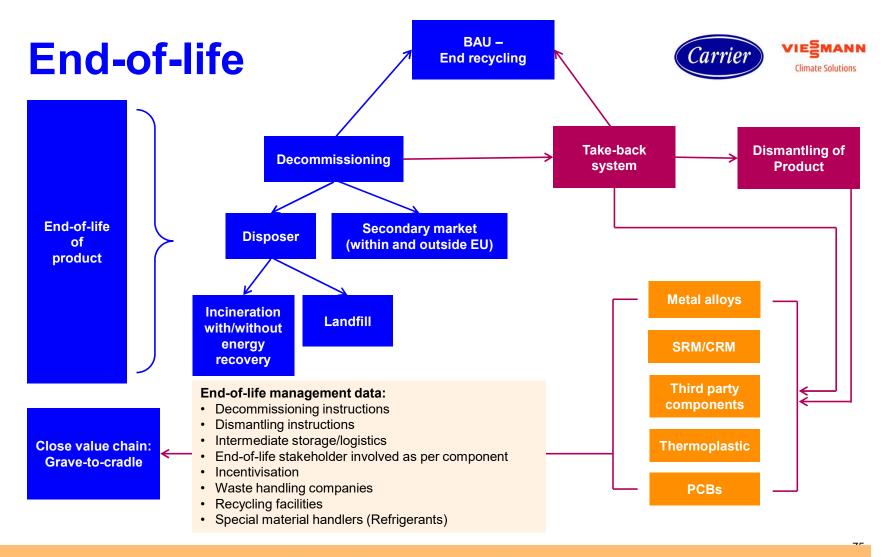
### Slide 74

Ja0 0

JT, is this closely related to Viessmann or can I change the colours (CE-RISE branding)? Nanett Kalapos, 2024-06-12T14:42:20.259 NK0

you can change the colors. No problem Jahanzeb\_Tariq, 2024-06-12T15:34:48.542







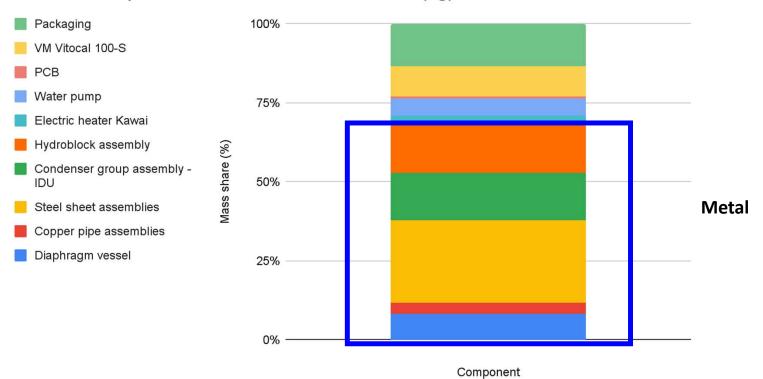
# **Greater good**





## Translate circularity to monetary benefit = Circular business models

Mass of component - Indoor unit Vitocal 100-S(kg)



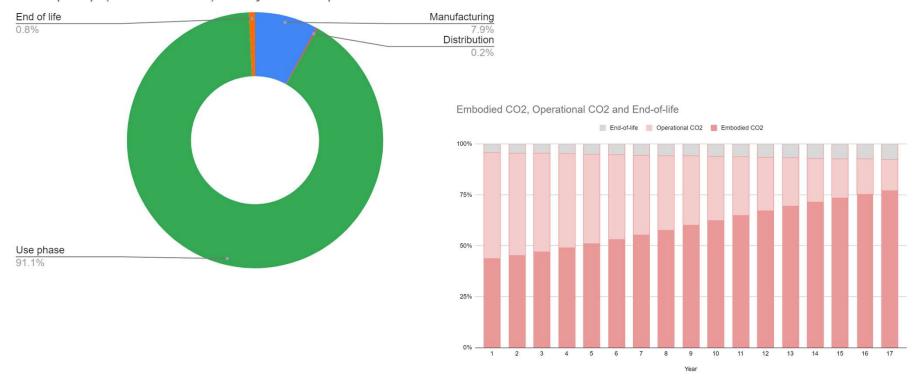


# **Environmental hot spots –** heat pump





Heat pump (Vitocal 100-S) life cycle hot spots





# **Heat pump circularity** identification







- Motor
- Water pump

Buffer tank

Diaphragm vessel

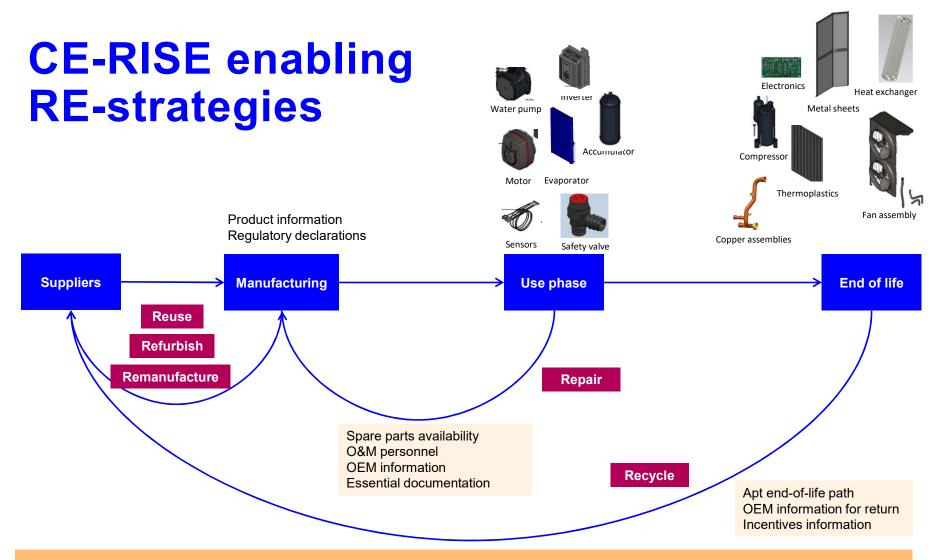


**Outdoor unit** 

Indoor unit

- Accumulator
- Fan
- Refrigerant circuit containing:
  - 2 heat exchangers Accumulator
  - Compressor
  - Electronic inverter
  - Copper pipes
  - Aluminum heat sinks Thermoplastics
  - Insulation
  - Metal sheets (outer covering)





# Thank you!





CE-RISE Project



CE\_RISE\_Project



Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI

EU Framework Programmes





Climate Solutions



