## Why is Circularity Important?

Going circular in the Food & Beverage sector: from Schneider Electric's story to yours



Schneider Electric Sustainability Business / Circularity Consulting Practice

9<sup>th</sup> of October 2023





#### Understanding A Complex Landscape

Production, processing, transport, storage and waste

13,000 businesses across a diverse supply chain

#### Sustainability Credentials and Legislation

Continually evolving landscape

Compliance

Agility with energy procurement

#### **Risk Avoidance**

#### **Get Ahead**

Future proofing your business

Supplier requirements

Commercial advantage

Clearly demonstrable sustainability goals



## Agenda

- 1. What is the Circular Economy?
- 2. Schneider Electric's circularity journey
- 3. How Schneider Electirc can support your circularity journey

4. Q&A



### Meet the Schneider Electric team



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## What is the Circular Economy?



## Circularity covers the life cycle of a product

From source to design to end of life

"A framework for an economy that is restorative and regenerative by design".

Globally accepted definition by the





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# The 10 R's

Refuse • Rethink • Reduce Smarter material use and manufacture

#### Reuse • Repair • Refurbish • Remanufacture

Extend lifespan of product and its parts

#### Repurpose • Recycle • Recover

Useful application of materials and components



## Circularity: a multi-driver approach

That meets the ambitions of multiple stakeholders

#### **COMMODITIES** Resource access and supply chain resilience

Raw material commodity prices nearly 18% higher than a year ago, continue rising with amid stronger demand. CUSTOMER Growing consumer pressure

83% of interviewed customers are expecting solutions immediately3 out of 5 European customers consider climate CLIMATE Lever for climate & sustainability targets

Circular path could halve EU's carbon emissions by 2030 across mobility, food systems and the built environment.

#### COMPLIANCE Arising pressure from legislation

Around the globe, authorities release tighter environmental standards concerning circularity, e.g. the EU taxonomy, ISO standards, the UK Plastic Packaging Tax etc.

Worldbank, 2021

Accenture, 2022. IPSOS market research

change when buying food.

Ellen MacArthur Foundation, 2021



# Circularity is a lever to save materials and to decarbonize



Internal

# Circularity practices help to reduce Scope 3 emissions from categories associated with materials

Schneider Electric	Materials & Procurement	curement Design & Distribution Use End c	End of Life				
support	Scope 3 categories						
	C1 Purchased goods & services	C3 Fuel & Energy		C13 Downstream leased assets			
	C2 Capital Goods	activities					
Circularity & scope 3 emissions	C4 Upstream Transport	C5 Waste	C9 Downstroom	C11 Use of sold products*	C12 End of Life		
	C6 Business Travel	operations	transport	C14 Franchises	products		
	C7 Employee Commuting	C10 Processing of					
	C8 Upstream leased assets	sold products		C15 Investments			
* Inspired on SE best practices				Life Is On	<b>Schneider</b>		

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## Schneider Electric's circularity journey



## Schneider Electric Provides Energy and Automation Solutions

To enhance efficiency and sustainability

#### Key figures for 2022

5% of revenues devoted to R&D

**34,2 bn €** 

**3,5 bn €** of group net results

135 000+

employees in over 100 countries



in the Corporate Knights ranking of the 100 most sustainable companies in the world

#### A well-balanced global presence

2022 Revenues breakdown 25% Western Europe 32% 30% North Asia America Pacific 13% Rest of the World

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## Circularity: scalable examples along Schneider Electric's value chain



#### **Extending Lifetime**



#### Giving a 2<sup>nd</sup> Life



#### Handling End-of-Life



#### Material Recycling





## Schneider Electric's approach to circularity



Climate positive by 2025 / Net-zero ready in operations by 2030 / Product neutral by 2040 / Net zero supply chain by 2050

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Climate

Goals Carbon impact (Lifecycle Assessment LCA) provided for 80% of product revenues

Approved methodology for induced, saved, avoided CO2 emissions

## Schneider Electric's Circularity Journey: ramping up from 2015 onwards

Starting with measuring circularity KPIs on our sustainability index to global recognition



## How SE can support your circularity and climate journey



## How Schneider Electric supports clients to achieve climate goals



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## Our services support clients towards a Circularity transformation

SE's tailor-made agnostic consulting services

#### **1. ASSESS**

- Customized circularity assessment to map your priorities
- **Benchmark** against industry peers to understand the landscape
- Identification of partners for your projects, e.g., for LCAs & EPDs

#### 2. DESIGN

- Embedding **industrial symbiosis** principles in your industrial ecosystem
- Circularity as a lever to reduce scopes 1&3
   emissions
- End-to-end circularity strategy and roadmap

#### 3. EXPAND

- Identification of pilot projects & feasibility studies
- Develop guidelines, playbooks & digital tools
- Articulate and communicate business impacts, e.g., **KPIs**, baseline, targets



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## Circularity as a systemic approach for sustainability solutions



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## Circularity assessments helping to indentify risks and opportunities

Understanding the landscape is an essential first step

	Units Source BloombergNEF Subject to terms and conditi	ons					
JK	Country	Policy name	Level of	Location	Policy area		
		Ĩ	<ul> <li>government</li> </ul>	-	-		
cular	United Kingdom	Single-use plastics ban (Scotland	d) Province/State	Scotland	Material		
odiai	United Kingdom	Scottish bottle deposit scheme	Province/State	Scotland	Deposit-return		
	United Kingdom	Scottish bottle deposit scheme	Province/State	Scotland	Deposit-return		
nomv	United Kingdom	UK Plastics Pact	National/Federal		Recycling		
lioniy	United Kingdom	Resources and Waste Strategy	National/Federal		Recycling		
	United Kingdom	Resources and Waste Strategy	National/Federal		Recycling		
licies	United Kingdom	Resources and Waste Strategy	National/Federal		Recycling		
	United Kingdom	Resources and Waste Strategy	National/Federal		Recycling		
	United Kingdom	Resources and Waste Strategy	National/Federal		Recycling		
	United Kingdom	Packaging Waste Recovery Note	National/Federal		Extended producer responsibilit		
	United Kingdom	Packaging Waste Recovery Note	National/Federal		Extended producer responsibilit		
	United Kingdom	Packaging Waste Recovery Note	National/Federal		Extended producer responsibilit		
	United Kingdom	Packaging Waste Recovery Note	National/Federal		Extended producer responsibilit		
	United Kingdom	Bottle Deposit Return Scheme	National/Federal		Recycling		
	United Kingdom	Bottle Deposit Return Scheme	National/Federal		Recycling		
	THE UK PLASTICS PACT	9	UK's Plastic Packaging Tax rakes in £276m for Treasury during first year				
	wrap	-					

Associated costs & supply risks

#### **Circularity actions to reduce risks:**

- Circular Sourcing + Supplier engagement
- Packaging design
- Recycling initiatives
- Close-loop systems
- Circular Business models
- Industrial symbiosis partnerships



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#### **CASE STUDY** | PACKAGING CIRCULARITY – HVAC Industry

Reassessing Packaging Strategy to meet climate targets

#### Purpose

- Analyze and establish a qualitative and quantitative baseline for packaging flows for tier-1 sites
- Identification and assessment of top suppliers
- Improvement of packaging circularity to meet packaging targets for recycled / recyclable / bio-degradable; removal of single-use plastic content

#### Path

- **Benchmarking** of circularity best practices for packaging in HVAC industry and peers
- Collection & analysis of packaging data
   across sources: sites, ERP, suppliers
- Schneider Electric best practices for packaging sustainability and circularity
- Regulation landscape assessment





- Prioritization of strategic circularity actions for packaging within the value chain, including pilot recommendations and supplier engagement
- Recommendations for better packaging data control and management
- Recommendations for definitions,
   KPIs, baseline and governance



Internal

## Key takeaways and suggested next steps



### Q&A: Get in touch with our experts



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