

Incentivizing Decarbonization through the Circular Economy in the Fashion Industry

Monitor For Circular Fashion SDA Bocconi, Milano 21 September 2021

EU TARGETS AND FASHION INDUSTRY IMPACT





EU TARGETS

GHG emissions:

-55% by **2030**

Climate Neutral by 2050



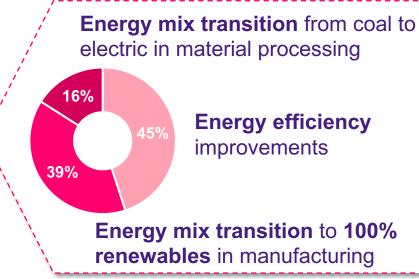
The EU is developing a strategy to shift to a climate-neutral, circular economy where products are designed to be more durable, reusable, repairable, recyclable & energy-efficient

2,1Bln

Tonnes of CO₂eq/year produced by the fashion industry, equal to 4% of global GHG emissions

63%

Of emissions (~1BIn tons) can be saved by operating on energy efficiency & energy transition in the fashion industry*



Energy has a fundamental role in the «sustainable inputs» pillar of the Circular Economy



HOW CAN COMPANIES ACHIEVE THESE **CHALLENGING TARGETS?**



RIA

THE IMPORTANCE OF **MEASUREMENT**

«What gets measured gets managed»

AS-IS -→ TARGET **ROADMAP**

Measurement is fundamental to:

- **Identify the starting point**
 - Plan a detailed roadmap
 - Make the right decisions
- Communicate the correct
- impact (avoiding cases of green washing)

KEY TOOLS



GHG REPORT

Analysis & quantification of the Carbon Footprint at Organization level in terms of CO2eq (scope 1,2 & 3)



SUSTAINABILITY REPORT

Analysis and description of organization's commitment to sustainable development for internal & external stakeholders with CO2 impact estimation





CIRCULAR ECONOMY REPORT

Analysis of the **level of** circularity at organization and site energy level which includes sensitivies and improvement roadmap with CO2, cost and energy savings





DEFINITION OF A SUSTAINABILITY ROADMAP

FOCUS ON THE CIRCULAR ECONOMY SCORES



A VERTICAL WHICH IMPACTS THE 63%

SCOPE

SCORE CORPORATE CE

WITHIN CE REPORT

High level, corporate-wide and qualitative analysis

KEY AREAS

Design	Energy consumption	Sales
Procurement	Production waste	Post- consumption
Production inputs	Logistics & Distribution	CE Corporate approach

SCORE **ENERGY CE**

Detailed, site-specific energy and quantitative analysis

RENEWABLE **ENERGY**

ENERGY EFFICIENCY

ENERGY MANAGEMENT

ENABLERS





KEY BENEFITS



Sustainability plan



Prioritization of actions



Competitive advantage



Credible communication

KEY STEPS

ROADMAP OF SOLUTIONS



CO2 Saving Cost Savings Energy savings

EXECUTION AND OPTIMIZATION







MEASURING OF AS-IS CIRCULARITY



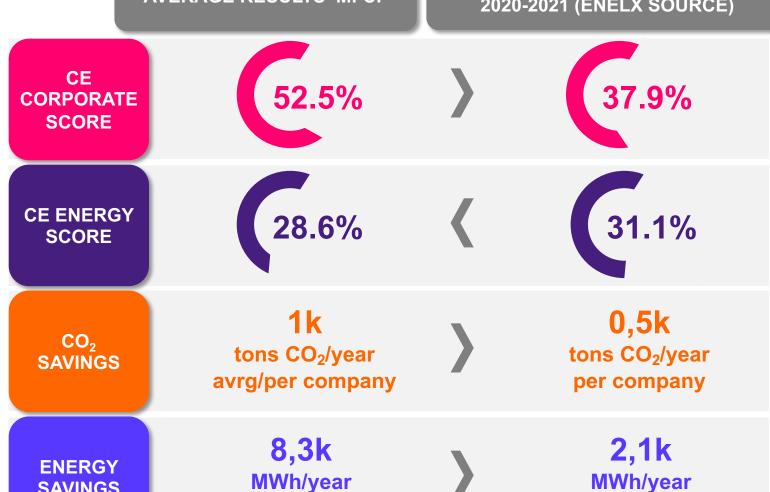
MONITOR FOR CIRCULAR FASHION 2021





AVERAGE RESULTS MFCF

AVERAGE CROSS-SECTOR REPORTS 2020-2021 (ENELX SOURCE)



Higher level of Corporate Circularity due to use of circular business models, stakeholder engagement and recycling of production waste.

Lower average score in energy circularity due to lack of selfgeneration of renewable energy.

Almost the double of potential in terms of CO₂ saving due to **high untapped** potential of renewable energy autogeneration plants.

Higher potential in terms of energy saving due to multiple opportunities for improvement in energy flows and energy management.

SAVINGS

avrg per company



per company

OPPORTUNITIES TO IMPROVE SECTOR CIRCULARITY



CE CORPORATE SCORE

Avg. Potential increase



CE ENERGY SCORE

Avg. Potential increase



MONITOR RESULTS 12.5%

OF FIRMS AUTO-PRODUCE RENEWABLE ENERGY ON SITE 50.1%

OF TOT. ENERGY CONSUMP-IS MONITORED BY AD-HOC SYSTEMS 13.1%

OF FIRMS HAS EV
RECHARGE
INFRASTRUCTURES ON SITE

41.3%

OF MATERIAL INPUTS
ARE RECYCLED AND 16%
REGENERATED OR
SECOND-HAND

IMPROVEMENT OPPORTUNITIES



2,2k tons
of CO₂/year
could be saved
by the M4F firms
by PV
installation

INSTALLATION OF PV-SYSTEM ON SITE



APPLY IOT AND AI SYSTEMS FOR ENERGY REMOTE CONTROL

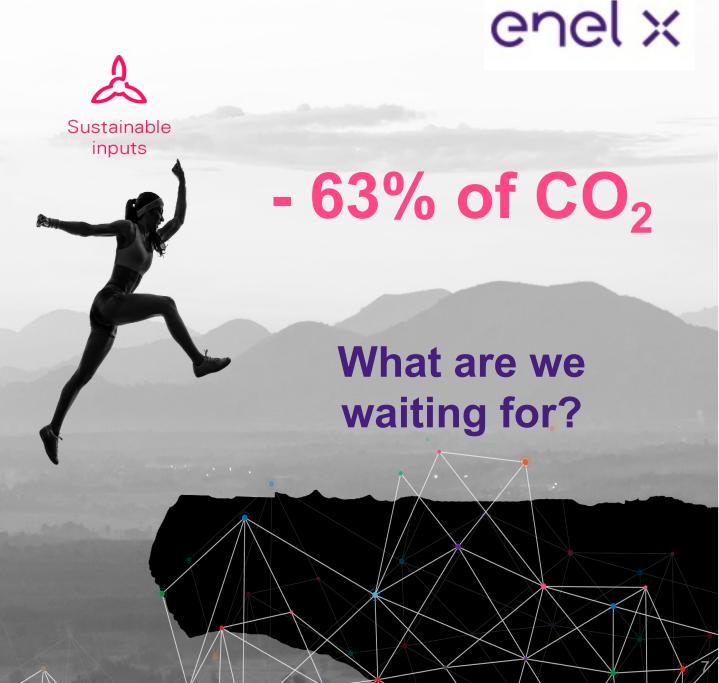




MAXIMISE USE OF RECYCLED, RECYCLABLE & REGENERATED INPUTS

2021 MFCF CONCLUSION

- Research on decarbonization is developing new technologies which will become available at reasonable costs in the future;
- 2. Energy, for which concrete decarbonization solutions already exist, is indisputably the main pillar to decarbonization that levers on the first business model of the CE: Sustainable Inputs;
- 3. Let's work concretely on energy circularity starting from PV, electric mobility, efficiency, able to reduce our environmental impacts, generate cost savings and meet global targets.





THANK YOU