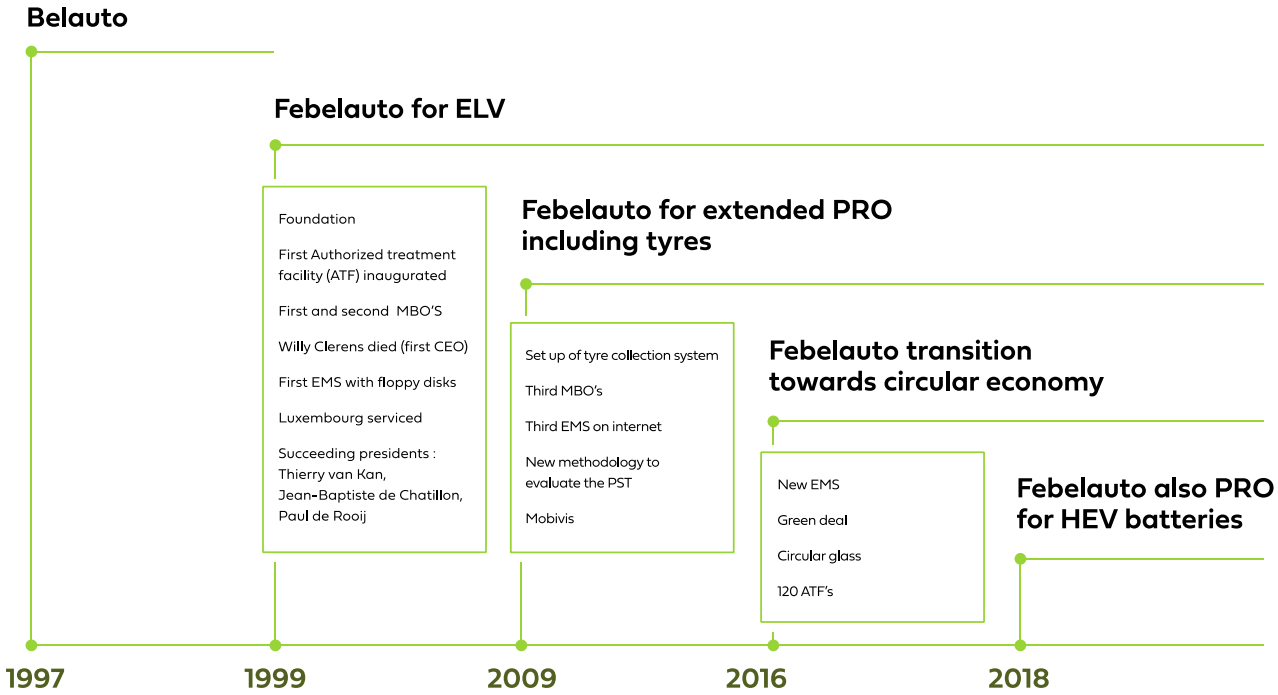
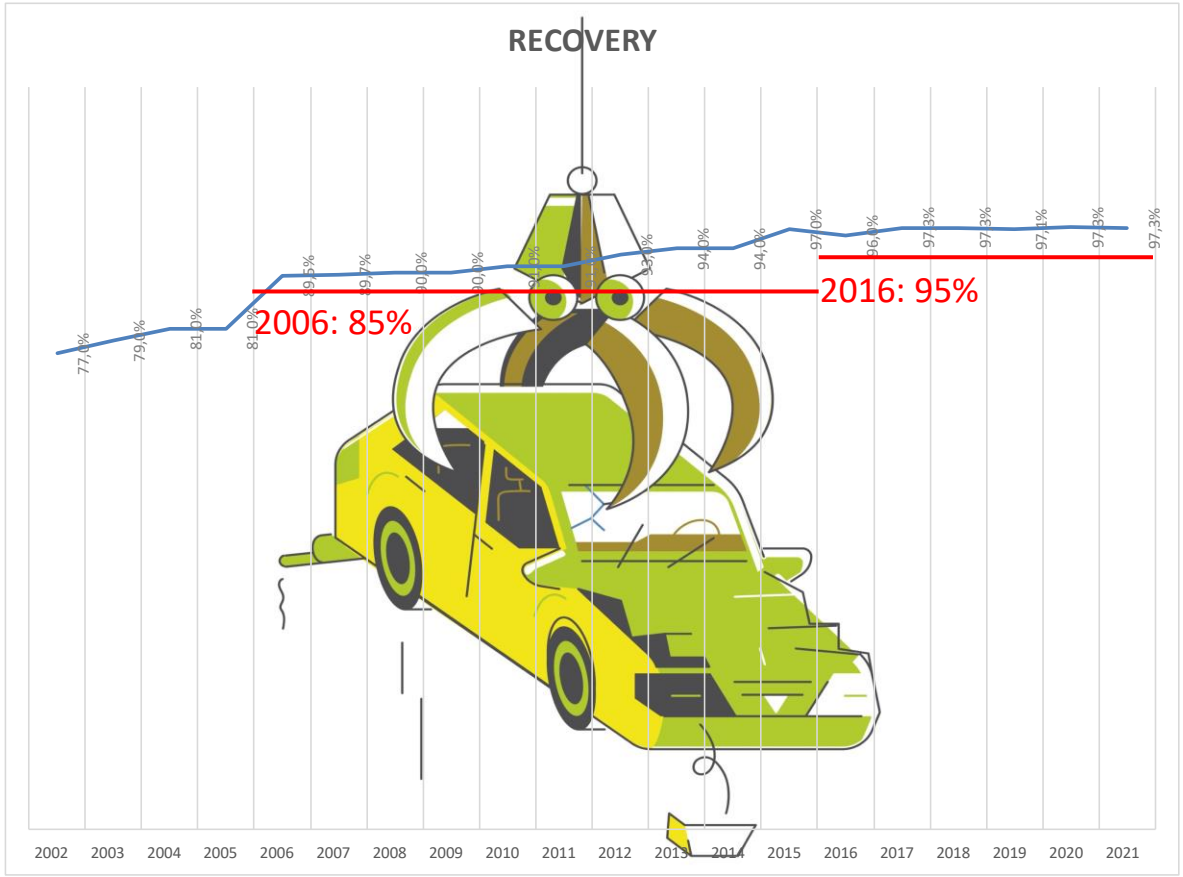
The circular life of a vehicle

By Catherine Lenaerts

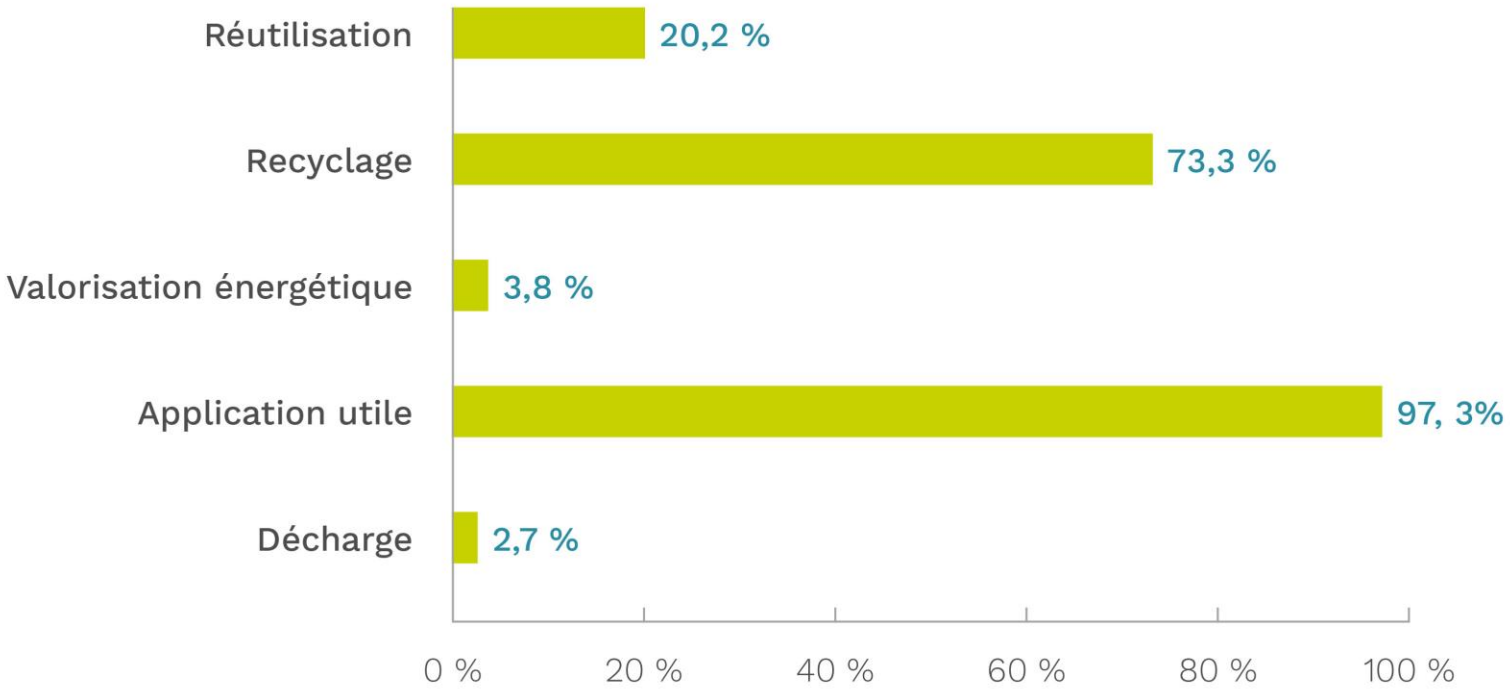
CEO


Febelauto
boucle la
boucle

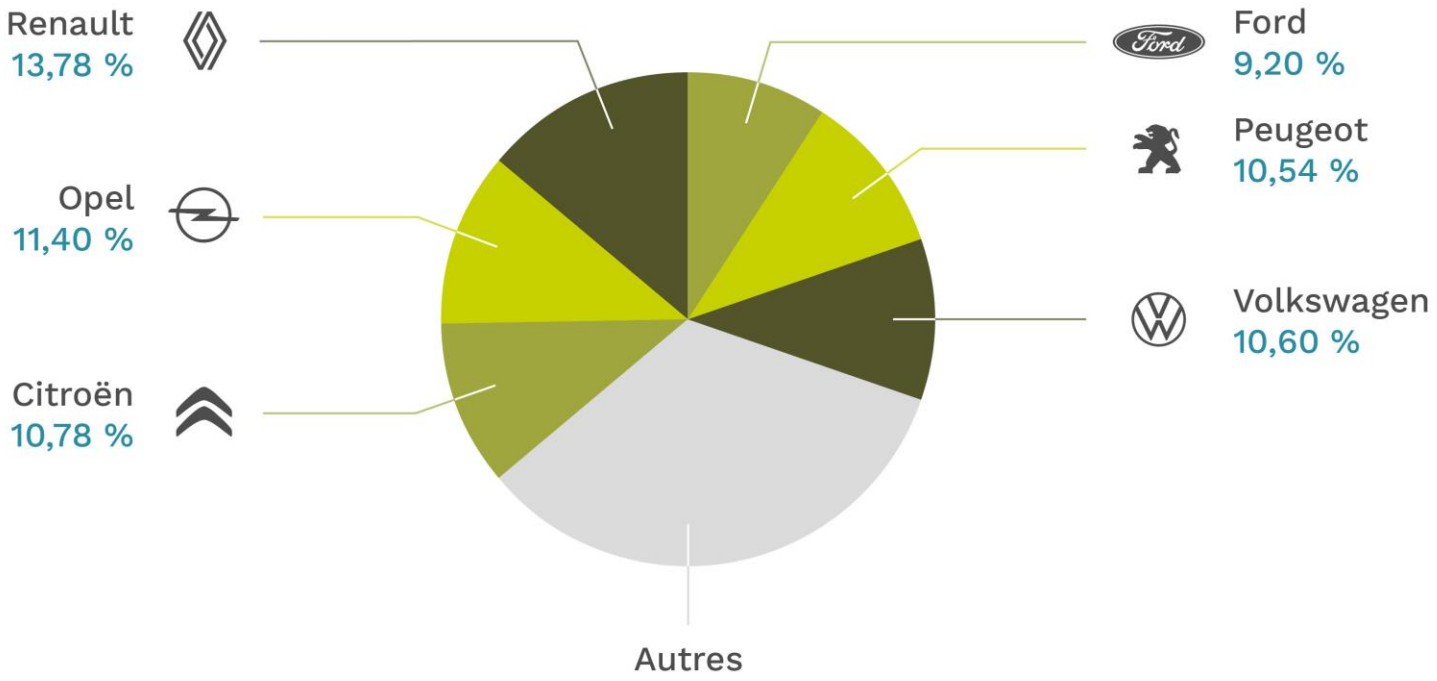

Belauto
Febelauto for ELV
Foundation
First Authorized treatment facility (ATF) inaugurated
First and second MBO'S
Willy Clerens died (first CEO)
First EMS with floppy disks
Luxembourg serviced
Succeeding presidents : Thierry van Kan, Jean-Baptiste de Chatillon, Paul de Rooij
Febelauto for extended PRO including tyres
Set up of tyre collection system
Third MBO's
Third EMS on internet
New methodology to evaluate the PST
Mobivis
Febelauto transition towards circular economy
New EMS
Green deal
Circular glass
120 ATF's
Febelauto also PRO for HEV batteries
1997
1999
2009
2016
2018


RECOVERY
2006: 85%
2016: 95%
77,0%
79,0%
81,0%
81,0%
89,5%
89,7%
90,0%
90,0%
93,0%
94,0%
94,0%
97,0%
97,3%
97,3%
97,1%
97,3%
97,3%
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021

Application utile



Les 6 marques les plus traitées

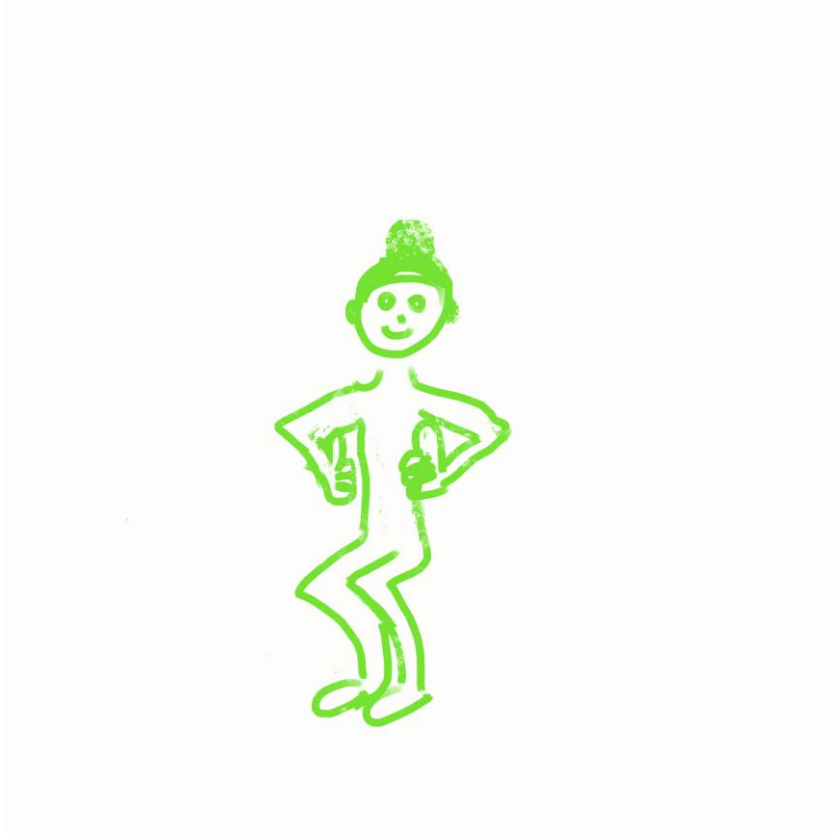


Average age of end-of-life vehicles in Belgium?

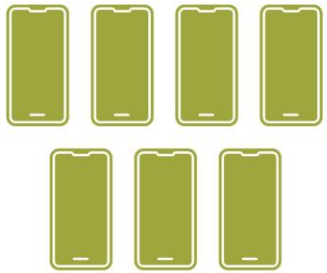
<12y

13-16y

>17y



Quelques chiffres en perspective



17,6 ans

17,6 ans tel est l'âge moyen des véhicules rentrés en 2021. Soit la durée de vie de **7** smartphones.

110.417.808 kg

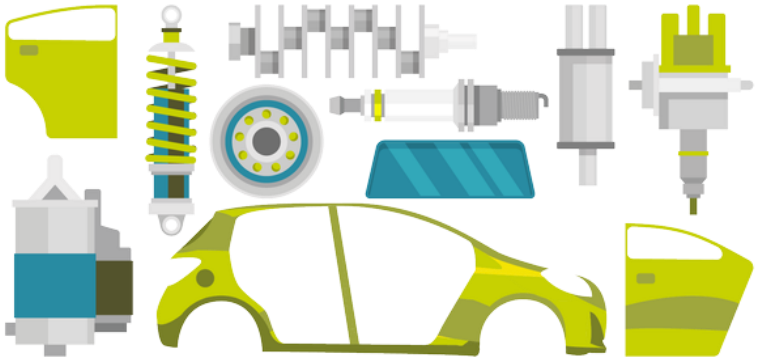
103.659 véhicules collectés représentent un poids total de **110.417.808 kg**. Soit le poids de **1.000** avions de passagers Airbus A330.

111 erkende centra / centres agréés


21% reuse

80% metals in my car
but also 151 kg plastics need to be recycled

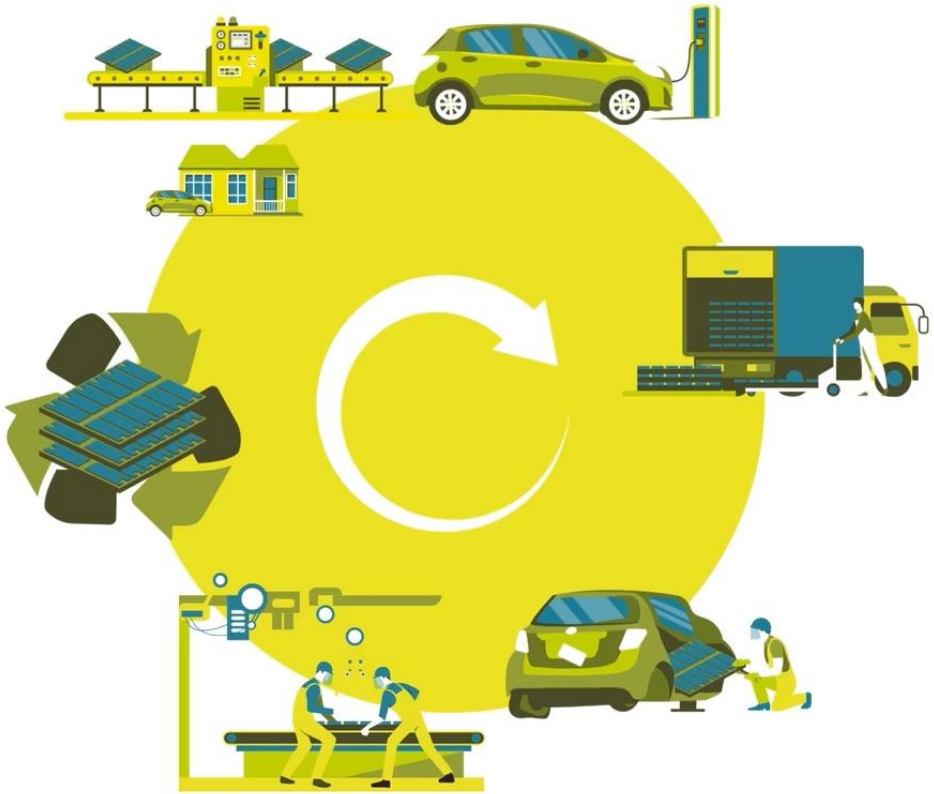
No challenges?



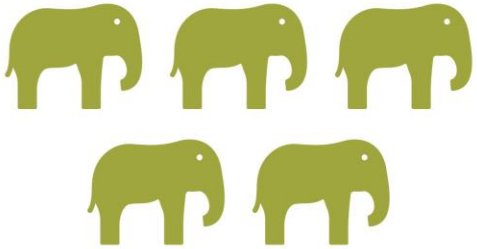
- Circular projects
- Circular database
- 10 R&D projects
- Traceability
- Inspections
- Sensibilization
- Communication

Wat hebben we geleerd?

1. Belgium first in class for recycling vehicles: 97%
2. Cars become older: 17,6 y at end-of-life
3. High ambitions in EU: challenges accepted…!

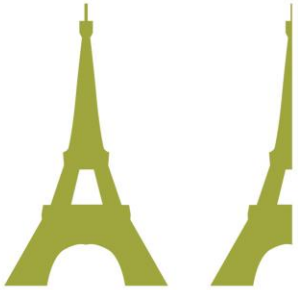


Quelques chiffres en perspective



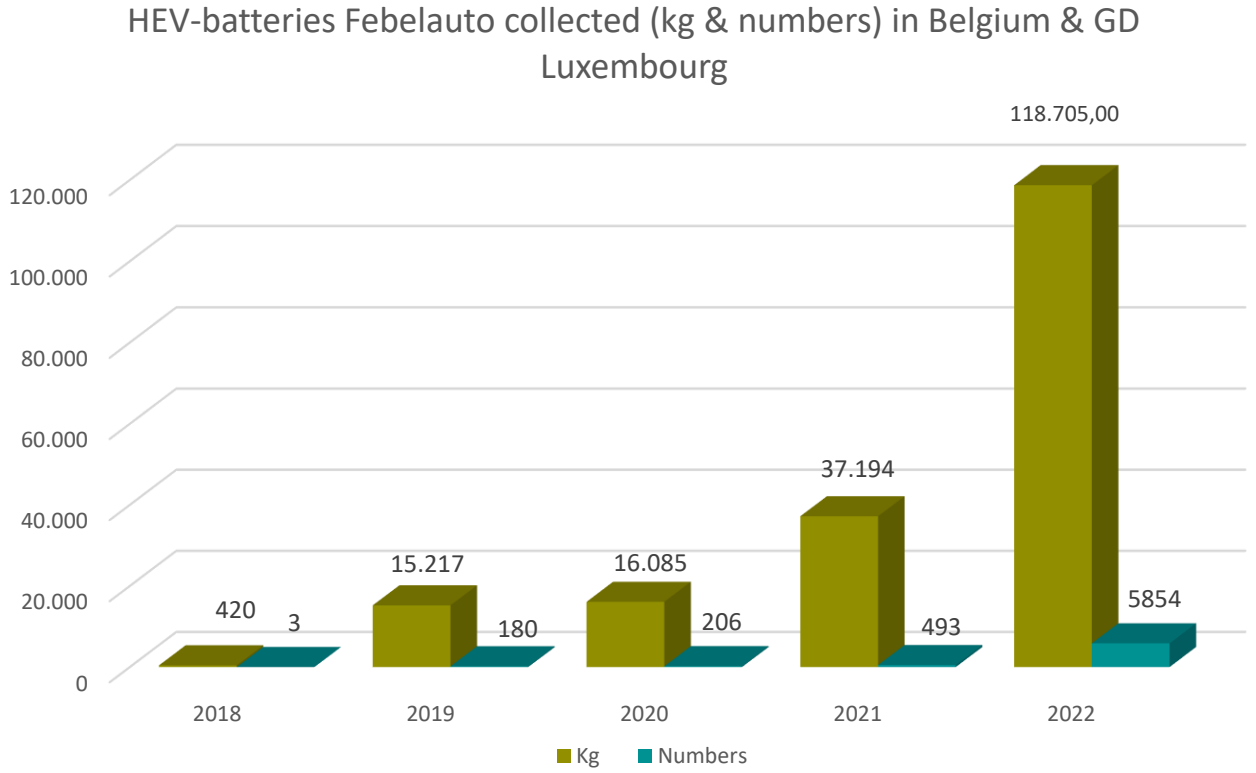
37.194,28 kg

En 2021, ce sont au total **493** batteries VHE qui ont été collectées. Elles pèsent ensemble **5 fois** le poids du plus grand éléphant d'Europe.



15.272.780,78 kg

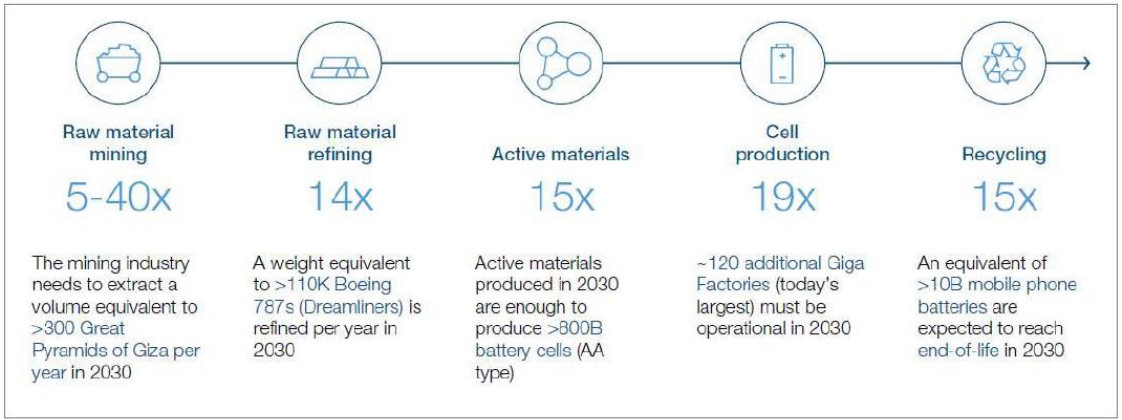
15.272.780,78 kg tel est le poids total des batteries VHE mises sur le marché en 2021. Elles pèsent ensemble autant qu'**une fois et demie** la Tour Eiffel.


HEV-batteries Febelauto collected (kg & numbers) in Belgium & GD Luxembourg
120.000
100.000
80.000
60.000
40.000
20.000
0
420
3
15.217
180
16.085
206
37.194
493
118.705,00
5854
2018
2019
2020
2021
2022
Kg
Numbers


WATT4EVER
BATTERIES FOR LIFE
greenyellow

Battery production and recycling is a strategic imperative for Europe in the context of the clean energy transition

Global need to scale up battery production by a factor of 14 across the value chain



Source: World Economic Forum and Global Batteries Alliance, *A vision for a sustainable battery value chain in 2030: Unlocking the potential to power sustainable development and climate change mitigation*, 2019

- Transport causes roughly a quarter of greenhouse gas (GHG) emissions and is the main cause of air pollution in cities
- In the EU, from 2025 onwards, there is an opportunity to capture the market for batteries valued at up to €250 billion a year

European Commission

Main elements of the new regulation

CHAPTER II – SUSTAINABILITY AND SAFETY REQUIREMENTS

- Restrictions of substances
- Carbon footprint
- Recycled content
- Performance and durability
- Removability and replaceability
- Safety (only for SBESS)

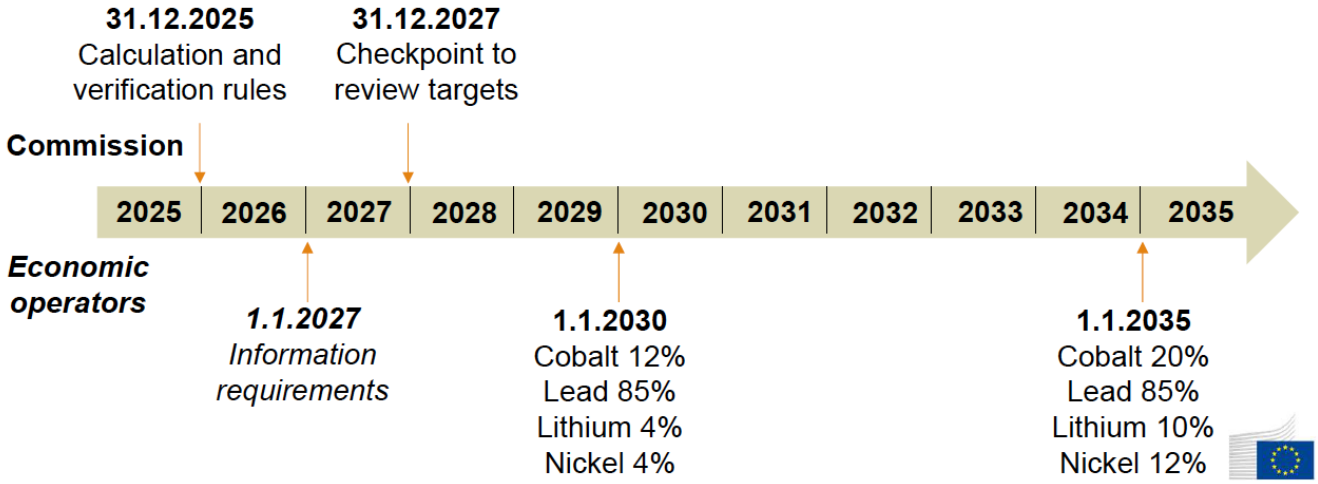
CHAPTER VII – MANAGEMENT OF WASTE BATTERIES

- EPR obligations for producers/PROs
- Collection of waste portable/LMT batteries
- Recycling efficiency targets
- Material recovery targets
- Shipment of waste batteries outside the EU
- Reporting obligations

European Commission

Provisions on recycled content

- Applicable to industrial, SLI (former automotive) and EV batteries
- Staged approach: calculation methodology first, then declaration of recycled content, then minimum targets for recycled content (cobalt, lead, lithium, nickel) originated in manufacturing and post-consumer waste
- Possibility to review targets in 2027-28



European Commission

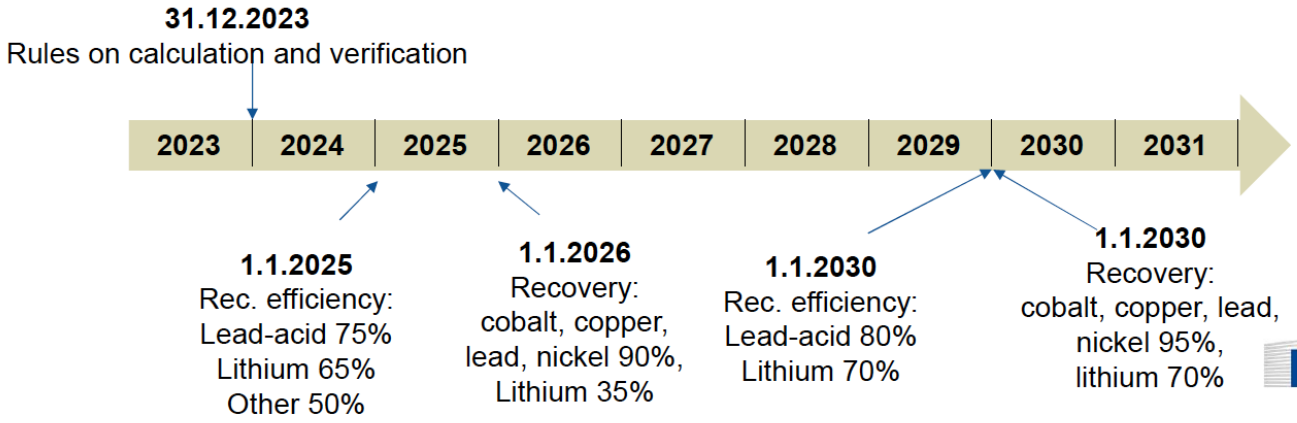
Targets on recycling efficiencies and material recovery

RECYCLING EFFICIENCIES BY 2025 AND 2030 (by average weight)

75 % for lead-acid batteries (80% in 2030)
65% for lithium-based batteries (70% in 2030)
75% for nickel-cadmium batteries
50% for other waste batteries

MATERIAL RECOVERY TARGETS BY 2026 AND 2030

90 % for cobalt in 2026 (95% in 2030)
90 % for copper (95% in 2030)
90 % for lead (95% in 2030)
35 % for lithium (70% in 2030)
90 % for nickel (95% in 2030)



European Commission


hype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Win a circular home battery
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WATT4EVER
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Op de kaart weergeven