

## Établissement d'un Value Proposition Canvas et d'un Business Model Canvas pour une usine de production de batteries

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# The new European Battery Regulation

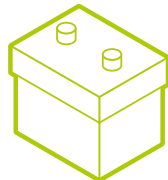
The European Commission has drawn up a draft Battery Regulation that will probably come into effect at the beginning of July 2023, of which EPR (extended producer responsibility) part or the future take-back rules will come into effect in mid-2025.

This overview details about the **most important new obligations for you as a producer, importer or seller of batteries on the Belgian market (individual sales of batteries themselves, as well as in appliances, equipment and means of transport).**

## 5 new battery categories

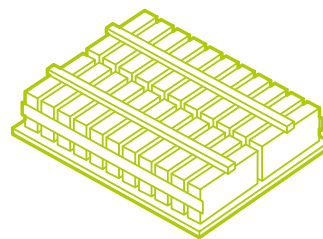
1

SLI battery or  
automotive battery  
(lead starter battery)



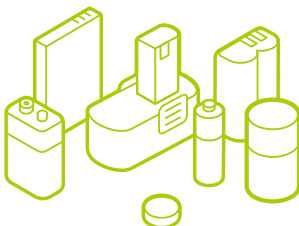
2

Electric Vehicle (EV)  
battery



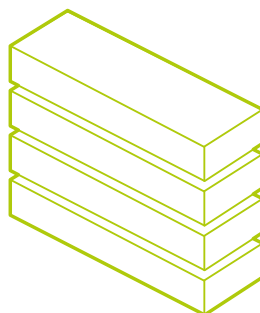
3

Portable battery  
 $\leq 5$  kg



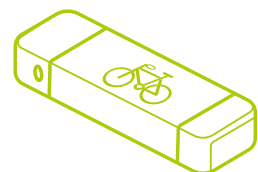
4

Industrial battery



5

Light means of transport  
battery (usually 2/3 wheel  
and  $\leq 25$  kg)



# What are your new obligations?

## PRODUCT STANDARDS

### NEW OBLIGATION

### APPLICABILITY TO NEW BATTERIES IN THESE CATEGORIES

### NUMBER OF MONTHS AFTER ENTRY INTO BATTERY REGULATION

#### Carbon Dioxide footprint

You provide a carbon footprint statement about the full life cycle of the battery.

- Electric vehicle batteries
- Rechargeable industrial batteries > 2 kWh
- Light means of transport batteries
- Batteries for Energy Storage Systems (ESS) > 2 kWh

18 months  
30 months  
60 months  
84 months

Batteries are classified into carbon footprint performance classes.

- Electric vehicle batteries
- Rechargeable industrial batteries > 2 kWh
- Light means of transport batteries
- Batteries for Energy Storage Systems (ESS) > 2 kWh

36 months  
48 months  
78 months  
102 months

There is a maximum carbon footprint threshold.

- Electric vehicle batteries
- Rechargeable industrial batteries > 2 kWh
- Light means of transport batteries
- Batteries for Energy Storage Systems (ESS) > 2 kWh

54 months  
66 months  
96 months  
120 months

#### Performance & durability requirements

Portable batteries (except button cells) for general use must meet minimum values for the electro-chemical **performance and durability parameters**.

- Portable batteries (4.5 Volt (3R12), D, C, AA, AAA, AAAA, A23, 9 Volts (PP3))

60 months

Establishment of these minimum values by the Commission via a delegated act

- Portable batteries (4.5 Volt (3R12), D, C, AA, AAA, AAAA, A23, 9 Volts (PP3))

48 months

Commission study on phasing out primary portable batteries in the market

- General purpose non-rechargeable portable batteries

31/12/2030

You provide information about the battery **performance & durability parameters** (the values of these parameters are set by a **delegated act** in **Appendix IV Part A**, 30 and 42 months after entry into force of the Regulation).

- Rechargeable industrial batteries > 2 kWh
- Light means of transport batteries > 2 kWh

48 months  
60 months

Batteries for Energy Storage System (ESS) must meet the set **safety parameters**.

- Batteries for Energy Storage Systems (ESS)

12 months

Batteries must be accompanied by a **document** containing the electrochemical performance and robustness parameter values.

- Rechargeable industrial batteries > 2 kWh
- Electric vehicle batteries
- Light means of transport batteries

12 months  
12 months  
12 months

Consumers must be able to **remove and replace** batteries from equipment.

- Portable batteries & light means of transport batteries

42 months

## PRODUCT STANDARDS

### NEW OBLIGATION

### APPLICABILITY TO NEW BATTERIES IN THESE CATEGORIES

### NUMBER OF MONTHS AFTER ENTRY INTO BATTERY REGULATION

#### Due diligence obligation

There is a "duty of care" or "due diligence" for:

- suppliers of cobalt, natural graphite, lithium, nickel; as well as for
- respecting human rights, environmental considerations, health and safety (with supervision by a notified body).

- All types of batteries

24 months

A **QR code**, identification and/or serial number, and a physical label is to be placed on every battery. The date of manufacture and entry on to the market are also to be stated (possibly on the packaging or in separate documentation).

- All types of batteries

42 months

A Battery Management System (**BMS**) is to be provided with accessible data about the parameters related to battery ageing and lifespan.

- Batteries for Energy Storage Systems (ESS)
- Electric vehicle batteries
- Light means of transport batteries

12 months  
12 months  
12 months

Conformity declaration and a **CE marking** is to be placed on the battery (if not possible, on the packaging/documentation).

- All types of batteries

36 months

Batteries are to have a **battery passport** that is accessible via an access code and which details technical information, percentage of recycled materials and CO2 footprint.

- Rechargeable industrial batteries
- Electric vehicle batteries
- Light means of transport batteries

42 months  
42 months  
42 months

## ENVIRONMENTAL OBLIGATIONS

NEW OBLIGATION	APPLICABILITY TO NEW BATTERIES IN THESE CATEGORIES	NUMBER OF MONTHS AFTER ENTRY INTO BATTERY REGULATION
Batteries are to be accompanied by documentation that states how much recycled cobalt, lead or nickel they contain.	<ul style="list-style-type: none"> <li>Industrial batteries &gt; 2 kWh</li> <li>Electric vehicle batteries</li> <li>Light means of transport batteries</li> <li>SLI batteries</li> </ul>	<b>60 months</b> <b>60 months</b> <b>120 months</b> <b>60 months</b>
Batteries are to be made with a minimum proportion of recycled materials: Phase 1: cobalt (16%), lead (85%), lithium (6%) and nickel (6%)	<ul style="list-style-type: none"> <li>Electric vehicle batteries</li> <li>Industrial batteries &gt; 2 kWh</li> <li>SLI batteries</li> </ul>	<b>96 months</b> <b>96 months</b> <b>96 months</b>
Phase 2: cobalt (26%), lead (85%), lithium (12%) and nickel (15%)	<ul style="list-style-type: none"> <li>Electric vehicle batteries</li> <li>Industrial batteries &gt; 2 kWh</li> <li>Light means of transport batteries</li> <li>SLI batteries</li> </ul>	<b>156 months</b> <b>156 months</b> <b>156 months</b> <b>156 months</b>
You are to register as a producer so that compliance with the management of waste batteries can be monitored.	<ul style="list-style-type: none"> <li>All types of batteries</li> </ul>	<b>On entry</b>
Minimum recovery and recycling efficiency for end-of-life batteries is to be ensured.	<ul style="list-style-type: none"> <li>All types of batteries</li> </ul>	<b>On entry</b>
Phase 1: 90% cobalt, 90% copper, 90% lead, 50% lithium and 90% nickel	<ul style="list-style-type: none"> <li>All types of batteries</li> </ul>	<b>31/12/2027</b>
Phase 2: 95% cobalt, 95% copper, 95% lead, 80% lithium and 95% nickel	<ul style="list-style-type: none"> <li>All types of batteries</li> </ul>	<b>31/12/2031</b>
Minimum recycling efficiency expressed in average weight. <ul style="list-style-type: none"> <li>75% for lead batteries, 65% for lithium batteries, 80% for nickel cadmium batteries, 50% for other waste batteries</li> </ul>	<ul style="list-style-type: none"> <li>All types of batteries</li> </ul>	<b>31/12/2025</b>
<ul style="list-style-type: none"> <li>80% for lead batteries, 70% for lithium batteries</li> </ul>	<ul style="list-style-type: none"> <li>All types of batteries</li> </ul>	<b>31/12/2030</b>

## Collection targets for European Member States

