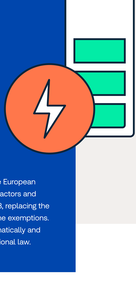
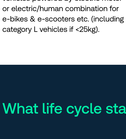
The EU Battery Regulation

Ensuring safety and sustainability

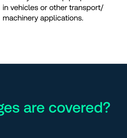


The EU Batteries Regulation aims to ensure that batteries placed on the European market are sustainable and safe throughout their life cycle, covering all actors and their activities. The new Regulation entered into force on 17 August 2023, replacing the Battery Directive 2006/66/EC which will expire two years later with some exemptions. In contrast to a directive, a regulation is a legal act which applies automatically and uniformly in all EU countries, without the need for transposition into national law.

What types of batteries are covered?

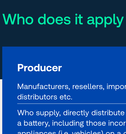


Electric vehicle (EV) batteries – power for Hybrids and EVs (category M, N, O or category L if >25kg).



Industrial batteries – specifically designed for industrial use, heavier than 5kg, not a SLI battery, traction battery or LMT battery.

Stationary battery energy storage systems – industrial batteries with internal storage designed to deliver electric energy to the grid or end-users.



Light means of transport (LMT) batteries – used by wheeled vehicles powered by electric motor or electric/human combination for e-bikes & e-scooters etc. (including category L vehicles if <25kg).

Starter, lighting, ignition (SLI) battery – can also be used for auxiliary or backup purposes in vehicles or other transport/ machinery applications.

Portable or device battery – encapsulated, weighs 5 kg or less, not designed for industrial use, & is neither an EV, LMT or SLI battery.

What life cycle stages are covered?

The EU Batteries Regulation covers the entire life cycle of a battery:

1. Raw materials production/procurement
2. Battery production
3. Battery use phase
4. Battery repurposing & recycling

Who does it apply to?

Producer

Manufacturers, resellers, importers, distributors etc.

Who supply, directly distribute or resell a battery, including those incorporated in appliances (i.e. vehicles) on a commercial basis within the European market.

Economic operator

Manufacturers, representatives, importers, distributors, service providers.

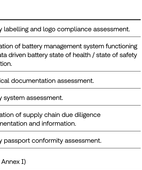
In relation to making available or placing of batteries on the market or putting of batteries into service, including preparation for re-use or repurposing or remanufacturing.

What are the requirements in detail?

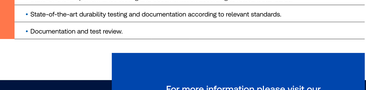
- Sustainability & safety:
  - Restrictions on substances
  - Carbon footprint
  - Recycled content
  - Performance & durability
  - Removability & replaceability
  - Product safety for battery and stationary battery storage systems
- Labelling, marking and information requirements
  - Labelling and marking
  - Information on state of health and expected lifetime
- Digital battery passport
- CE marking conformity assessment procedures
- Economic operators' other obligations
- Due diligence policy requirements
- Waste battery management:
  - Extended producer responsibility
  - Recycling efficiencies
  - Collection rates

What is the timeline dependent on?

1. Your product
2. Release of secondary legislation
3. Notified body availability
4. Company size in terms of annual turnover



Your journey to success



Step 1
Gain understanding

- TÜV SÜD experts familiarise you with the Regulation.
- Interpret the Regulation's requirements from your perspective.

Step 2
Preparation/ Assessment

- Clarify your interpretation with our experts.
- Confirm your EU Batteries Regulation readiness.
- Execute the initial assessment with our team.

Step 3
Planning/ Implementation

- Create a detailed roadmap with our experts.
- Modular service offerings to fit your needs, including:
  - GS verification
  - CFP verification
  - DD verification
  - Recycling rate verification
  - Chemical analysis
  - Performance/durability testing & verification
  - Safety testing & verification.

Step 4
Declaration/ Certification

- Achieve regulatory compliance on time.
- Remain up to date with legislation.
- Minimise re-compliance checks effort.

Modular service offerings

End-to-end technical verification services

EU Batteries Regulation training

- General introduction to the Regulation.
- Customised training with product-specific deep dive & technical verification on requirements interpretation.
- Q&A for individual product-specific questions.

CE marking

- Supporting customers on their way to CE marking readiness:
  - Initial audit to determine status quo.
  - Recurring review loops to eliminate deviations or omissions.
  - Final check to validate CE marking readiness.
- Notified body CE marking assessment.

Due diligence

- Supporting customers on their way to due diligence policy readiness:
  - Initial audit to determine the status quo.
  - Recurring review loops to eliminate deviations or omissions.
  - Final check to validate due diligence policy readiness.
- Notified body due diligence assessment.

Individual services

Individual services

- Detection of hazardous substances content.
- Product carbon footprint verification.
- Recycled content verification.
- Battery performance and durability testing.
- Battery detachability and replaceability evaluation.
- Hazard analysis assessment and safety testing.
- Battery labelling and logo compliance assessment.
- Verification of battery management system functioning and data driven battery state of health / state of safety evaluation.
- Technical documentation assessment.
- Quality system assessment.
- Verification of supply chain due diligence implementation and information.
- Battery passport conformity assessment.

Testing services

Restrictions on substances for batteries (Art. 6 i.c.w. Annex I)

- Determination of applicable regulations and directives.
- State-of-the-art chemical testing and documentation according to relevant standards.
- Documentation and test review.

Safety of batteries & stationary storage systems (Art. 12 i.c.w. Annex V)

- State-of-the-art testing and documentation to prove compliance with safety requirements.
- Assessment of possible safety hazards.
- State-of-the-art testing and documentation for hazard analysis.
- Thermal propagation and fire testing according to relevant standards.
- Technical documentation and manufacturer's mitigation instructions review.

Battery performance & durability (Art. 10 i.c.w. Annex IV)

- Parameter determination related to performance and durability (capacity, power, internal resistance, efficiency, cycle life, life-time etc.).
- State-of-the-art performance testing and documentation according to relevant standards.
- State-of-the-art durability testing and documentation according to relevant standards.
- Documentation and test review.

For more information please visit our website or contact us.

Add value.
Inspire trust.
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