

AN OVERVIEW OF THE GLOBAL REGULATORY LANDSCAPE FOR LEAD

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International
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- The EU “Green Deal” regulatory landscape
- USA, India and China not far behind
- Key messages



EU POLITICAL LANDSCAPE-THE GREEN DEAL



The overarching aim of the European Green Deal is to reach **net-zero greenhouse gas emissions** within the EU and deliver a **pollution-free environment** by **2050**.

EU POLITICAL LANDSCAPE-THE GREEN DEAL



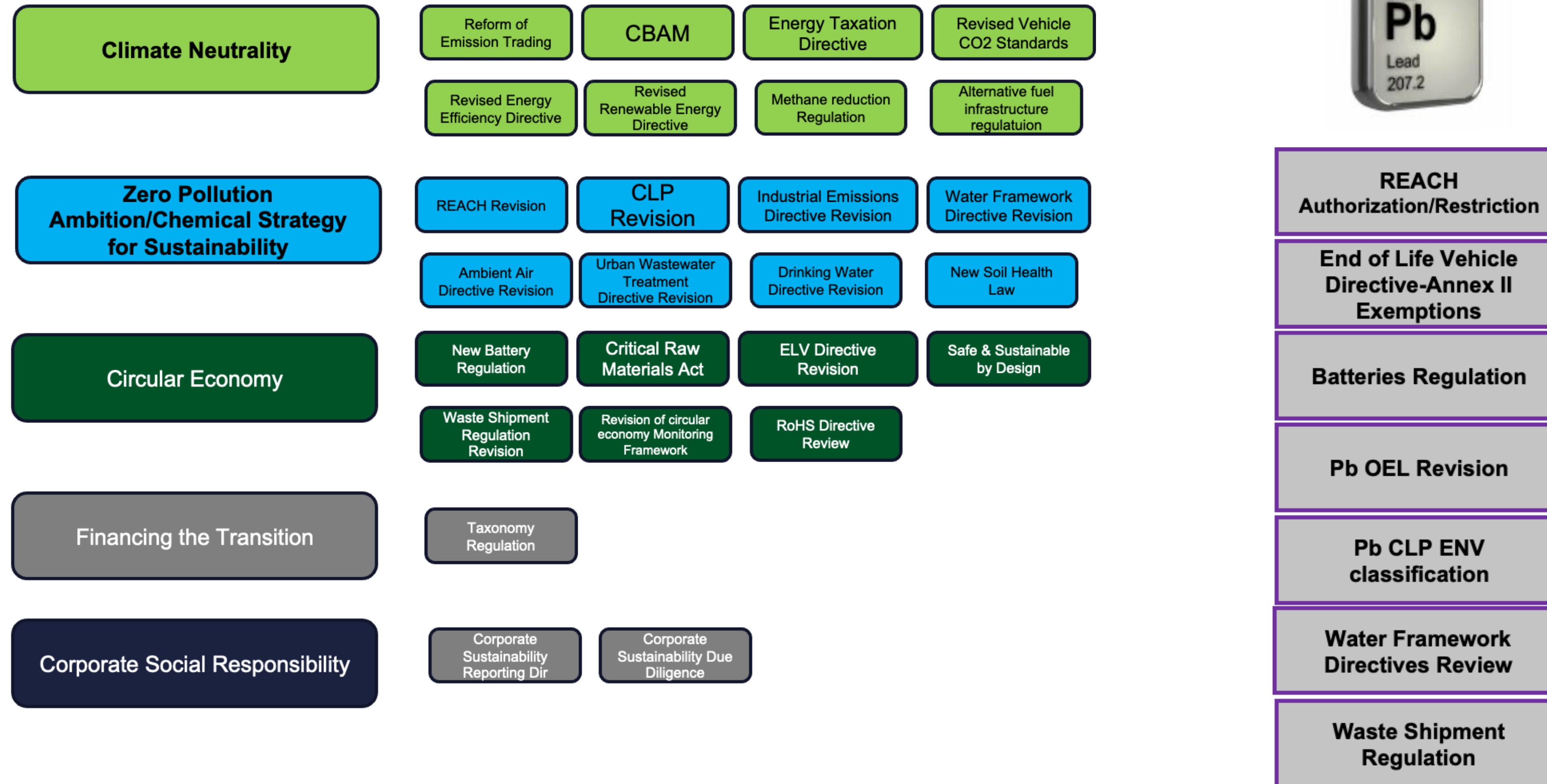
- Climate Neutrality
- Zero Pollution Ambition/Chemical Strategy for Sustainability
- Circular Economy
- Financing the Transition
- Corporate Social Responsibility

EU POLITICAL LANDSCAPE-THE GREEN DEAL



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| Climate Neutrality | Reform of Emission Trading | CBAM | Energy Taxation Directive | Revised Vehicle CO2 Standards |
| | Revised Energy Efficiency Directive | Revised Renewable Energy Directive | Methane reduction Regulation | Alternative fuel infrastructure regulation |
| Zero Pollution Ambition/Chemical Strategy for Sustainability | REACH Revision | CLP Revision | Industrial Emissions Directive Revision | Water Framework Directive Revision |
| | Ambient Air Directive Revision | Urban Wastewater Treatment Directive Revision | Drinking Water Directive Revision | New Soil Health Law |
| Circular Economy | New Battery Regulation | Critical Raw Materials Act | ELV Directive Revision | Safe & Sustainable by Design |
| | Waste Shipment Regulation Revision | Revision of circular economy Monitoring Framework | RoHS Directive Review | |
| Financing the Transition | Taxonomy Regulation | | | |
| Corporate Social Responsibility | Corporate Sustainability Reporting Dir | Corporate Sustainability Due Diligence | | |

EU POLITICAL LANDSCAPE- Regulation impacting Pb





Pb

2023 JUNE
21-23

Europe is not the
only Region with
developing
regulation



- Inflation Reduction Act
- NAAQS
 - NESHAP
 - OSHA OEL
 - TSCA



- Battery Waste Management Rules 2022



- Action Plan for Prevention and Control of Waste Lead Battery Pollution 2019
- Standard Conditions of Lead and Zinc Industry
 - National standards for e-bikes
 - Guidance on Energy Reduction and Emission Cutting in the Energy Intensive Industries 2022

Key Messages

- Climate change targets continue to stimulate increased demand for batteries to support low carbon mobility and green energy storage
- Regulation evolving globally to ensure that environmental sustainability and ESG issues are addressed as the market grows
- Legislation developing to address:
 - Carbon footprint
 - Producer responsibility
 - Maximisation of resources [recycle, reuse, reduce]
 - Responsible sourcing
 - Lifecycle impacts
 - Workplace exposures and environmental pollution
 - Sustainability by design
- Comparatively little state driven financial stimulus in EU [unlike USA and China]



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| <ul style="list-style-type: none"> • Economic value • Job creation • Criticality for energy transition and health & safety applications • Secure domestic raw material supply from recycling • Closed loop circular economy | <ul style="list-style-type: none"> • Substance of Very High Concern • Health risks • Environmental pollution • Negatively impacting recycling of other waste streams |
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The balancing act for continued Pb use

Lead and lead batteries will remain centre stage.....



Thank You!