

# Battery Passport 2024 Pilots: Data Fields

## Battery information tab

1. **Battery serial number:** a physical number on a particular battery limited to the first 20 symbols only (can be skipped when passport is generated for a batch of batteries or for a virtual battery)
2. **Battery model:** a simple description of a battery model
3. **Battery status:** status of physical object (a battery), which this passport refers to (original, repurposed, recycled, etc.)
4. **Manufacturing date:** actual date of battery manufacturing (month only)
5. **EV OEM:** name of the OEM company, which placed a particular battery into the EV
6. **Country of EV production:** a country of OEM facility, which has assembled an EV (not the country of the company headquarters)
7. **Battery producer:** name of the battery pack producing company
8. **Country of battery production:** a country of the battery producer facility (not the country of the company headquarters)
9. **Battery cell producer:** name of the cell producing company
10. **Country of cell production:** a country of battery cell producer facility (not the country of the company headquarters)
11. **Battery chemistry:** a simplistic text description of core chemical elements of battery
12. **Battery cell type:** cylindrical, prismatic, pouch, blade, other
13. **Number of cells per battery:** integer, number of individual cells in a battery pack (can be skipped for virtual batteries)
14. **Weight:** physical weight (mass) of battery in kg
15. **Total energy:** 000,00 kWh
16. **Energy density:** 000,00 Wh / kg
17. **Rated capacity:** 000,00 / 000 Ah
18. **Expected lifetime:** integer, number of cycles
19. **Voltage** (min-nominal-max): V
20. **Temperature range:** min temperature – maximum temperature in C°
21. **Material flow aggregation:** status of the battery passport reflecting one of the four options:
  - individual battery – collected material flow data reflect real value chain of a specific manufactured individual physical battery
  - batch of batteries – collected material flow data reflect aggregation of real value chain for a batch of batteries when individual tracing was physically unachievable (may be interpreted as an average battery)
  - virtual battery – collected material flow data reflect real value chain of a specific individual battery that may be still in production of information aggregated till cell level only due (a pack / module producer did not participate in a piloting exercise)
  - batch of virtual batteries – collected material flow data reflect aggregation of real value chain for a defined period for a batch of batteries that may be still in production of information aggregated till cell level only due (a pack / module producer did not participate in a piloting exercise)



22. **Tracing period start:** dd.mm.yyyy, the beginning of the material flow tracing / tracking period (not an ESG reporting period), which is used for suppliers' shares aggregation
23. **Tracing period end:** dd.mm.yyyy, the end of the material flow tracing / tracking (not an ESG reporting period), which is used for suppliers' shares aggregation
24. **Data collection assured by:** titles of track & trace (T&T) solution provider and supporting companies
25. **Traceability:** a qualitative characteristic of maturity of tracing / tracking capabilities of T&T provides, demonstrated in a particular pilot:
  - 0/3 low – not T&T involved
  - 1/3 basic – no end-to-end traceability involved
  - 2/3 med – end-to-end traceability ensured
  - 3/3 high – close to physical level of material tracing / tracking
26. **Interoperability:** a qualitative characteristic of maturity of interoperable capabilities of T&T provides, demonstrated in a particular pilot:
  - 0/3 low – not interoperability (zero or one T&T solution provider)
  - 1/3 basic – one T&T solution provider, proofs of adherence to data aggregation guidelines
  - 2/3 med – two T&T solution providers involved and collaborated
  - 3/3 high – more than two T&T solution providers involved and collaborated
27. **Data verification assured by:** titles of third party verifiers involved
28. **Verification:** a qualitative characteristic of maturity of interoperable capabilities of T&T provides, demonstrated in a particular pilot:
  - 0/3 low – not complete set of ESG data provided, no external data verification conducted
  - 1/3 basic – complete set of ESG data provided, no external ESG data verification conducted
  - 2/3 med – complete set of ESG data provided, elements of ESG data verification conducted
  - 3/3 high – complete set of ESG data provided, complete ESG data verification conducted

## Materials Provenance

22. **Bill of materials:** the total number of materials the battery producer traces / tracks (or intends to trace /track) for the battery passport
23. **Recycled materials:** the % of the physical mass of the battery coming from recycled materials and components
24. **Materials traceability:** %, a share of physical mass of traced / tracked material divided by mass of the battery
25. **Materials traceability (in pilot):** %, a share of physical mass of traced / tracked mass in this particular pilot material divided by mass of the battery (may be equal or lower than overall material traceability)
26. **Hazardous components:** a list of hazardous components of a particular battery  
*(as the requirements for hazardous components were not finalized this field left empty for all the MVP pilots)*
27. **First / Second traced material:** material title
28. **Physical amount:** 00,00 kg / not disclose / not applicable (can be rounded to an integer value if sensitive to disclose)
29. **Traced amount:** 00,00 kg / not applicable (can be rounded to an integer value if sensitive to disclose)
30. **Share:** 00,00% / not disclosed / not applicable: a share of physical weight of traced material coming from a particular traced / tracked supplier, defined as the result of simplified mass balancing or direct



tracing / tracking by the T&T solution provider (can be rounded to an integer value if sensitive to disclose)

31. **Company:** name of material supplier / not disclosed (a headquarters company or a particular mine name)
32. **Country:** country of operations / not disclosed (not the country of the company headquarters)
33. **ESG performance:** reported / not reported (ESG data may not have been collected and reported despite the traceability data are available)
34. **GBA member coverage:** %, same as material traceability but accounting from GBA members only

## ESG Performance

35. **Number of companies:** number of companies / processes mapped by a particular pilot to fit into a specific cluster
36. **Number of reports:** number of reports received and processed from regarding specific ESG issue (may not exceed the number of reporting companies / processes per cluster)
37. **GHG PMA / PMA:** 000,00 (please consult GBA GHG Rulebook)
38. **Primary data share:** 00% (please consult with GBA GHG Rulebook)
39. **ESG score:** 0,00-1,00, the weighted average score (per cluster and per issue), reflecting the ESG performance of companies / process that fit into a particular cluster

### Score statuses:

- 0,XX – the value has been calculated and reported to the GBA and explicitly disclosed by a pilot
  - withheld – the value has been calculated and reported to the GBA but not disclosed by a pilot
  - secured – the value has been calculated but safeguarded by the GBA
  - “---” – the value has not been provided or calculated (only some cluster level data available)
  - no info – the value has not been provided or calculated (no data available across all clusters)
  - empty – no value needs to be provided (Circular Design case only)
40. **NA rate (%):** 0%, a ratio of questions marked as NA (not applicable) by reporting entities out of total questions that reporting entities were supposed to answer (averaged per cluster and per issue)
  41. **Data proofs:** %, a share of questions with a relative proof option chosen by reporting entity, rounded to the closes integer  
Please consult with MVP pilot landing page for precise definitions of (A), (B), (C) and (D) options
  42. **Number of verified reports:** a total number of report per issue and per cluster, that have been ran through an external third party verification process (a number may be accompanied by \* in case the verification is still in progress)