Standard **ISO 40 7:20 8**

Certificate Registr. No. **CO 50527031 0001**

Based on the information we have received and evaluated that:

- Programme: Voluntary PCF scheme
- Product Category Rule: N/A
- Review Criteria: ISO 14064-3:2006
  Organizational Boundary: Operational Control
- Level of Assurance: Reasonable
  Materiality: 5%
- Global warming potential (GWP): IPCC 2013
  Analysis mothed: IPCC 2013 GWP 100a v1.02
- LCA software or database: SimaPro 9.1.0 / Ecoinvent 3 7
- Product: PV module
  - Boundary: Cradle to Gate
  - Data period: 2020.11.01~2021 10.31
    Functional / Declared unit: one kW of N type PV Module
  - Model No.: 182 module series (Average data got from JKMXXXN-60HL4-(v), JKMXXXN-72HL4-BDV, JKMXXXN-72HL4-(v), JKMXXXN-78HL4-BDV, JKMXXXN-54HL4-(v))
  - Carbon emissions (cradle to gate): 402.82 kg CO_2e/kW

Validity: This certificate is valid from 2022-03-29 until 2024-03-28.
This certificate only verified the target product / service carbon footprint, this verification does not include review of external communication.

2022-03-29

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verification and validation.

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