# Sustainable Cooling Readiness Index (SCRI) – Full Indicator Catalogue

Below is the consolidated list of 26 indicators used to construct the Sustainable Cooling Readiness Index. Newly added indicators are highlighted in bold.

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| # | Indicator | Description | Unit / Scale | Source / Dataset |
| 1 | Heat Days > 35 °C | Number of days per year with temperature > 35 °C; indicator of extreme heat exposure. | Days per year | World Bank Climate Change Knowledge Portal (CCKP) |
| 2 | Average Mean Temperature | Long-term annual mean temperature. | °C | World Bank CCKP |
| 3 | Humidity | Average annual relative humidity; represents heat-humidity stress for cooling demand. | % | World Bank CCKP |
| 4 | Access to Financing Mechanisms for Energy Efficiency | Existence and strength of public or private EE financing schemes (concessional loans, incentives). | 0 – 100 (policy score) | World Bank RISE – EE Financing |
| 5 | National Cooling Plans | Whether a country has a national or sub-national cooling action plan. | Binary (0 = No, 1 = Yes) | UNEP Cooling Plans Database |
| 6 | Access to Electricity (Rural) | Share of rural population with electricity access. | % of population | World Bank / SEforALL – Tracking SDG7 |
| 7 | Access to Electricity (Urban) | Share of urban population with electricity access. | % of population | World Bank / SEforALL – Tracking SDG7 |
| 8 | Transmission & Distribution Losses | Electricity lost in transmission and distribution (grid efficiency inverse proxy). | % of output (lower = better) | World Bank WDI – EG.ELC.LOSS.ZS |
| 9 | Building Standards | Existence and enforcement of energy-efficiency codes for buildings. | 0 – 100 or Binary (by dataset) | IEA Building Energy Codes Database |
| 10 | Electricity Generation – Clean Share | Proportion of electricity from renewable or low-carbon sources. | % of generation | IEA / IRENA / WB SDG7 Database |
| 11 | Energy Efficiency Mitigation Financing | Volume or share of multilateral public climate finance for energy efficiency and mitigation projects (2000–2023). | USD million / % of total climate finance | Fan et al. (2024), International Multilateral Public Climate Finance Dataset 2000–2023 (Peking University / Nature Scientific Data) |
| 12 | ICT | Information and communications technology access and infrastructure readiness. | 0 – 1 | UNCTAD FTRI – ICT Component / ITU Data |
| 13 | Skills | Human capital and education capacity for green technology adoption. | 0 – 1 | UNCTAD FTRI – Skills Component / WDI Education Data |
| 14 | Research and Development (R&D) | R&D expenditure or innovation capacity for technology transfer. | % of GDP or 0 – 1 index | UNCTAD FTRI / UNESCO UIS |
| 15 | Industry Activity | Industrial output and diversification (proxy for absorptive capacity). | % of GDP or 0 – 1 index | UNCTAD FTRI / World Development Indicators |
| 16 | Access to Finance | Availability of credit, capital markets and green investment channels. | 0 – 1 index | IMF Financial Access Survey / UNCTAD FTRI |
| 17 | Built Environment Overall Score | Composite indicator for building stock, urban density and resilience readiness. | 0 – 1 index | UN-Habitat / IEA / UNEP Cooling Initiative |
| 18 | Energy Overall Score | Composite indicator for energy access, affordability and efficiency. | 0 – 1 index | SEforALL / IEA / World Bank Energy Data |
| 19 | SPI.D3.1.POV | Data availability for SDG 1 (No Poverty) – Statistical Performance Indicators. | 0 – 10 (higher = better coverage) | World Bank SPI Database |
| 20 | SPI.D3.10.NEQL | Data availability for SDG 10 (Reduced Inequalities). | 0 – 10 | World Bank SPI Database |
| 21 | SPI.D3.11.CITY | Data availability for SDG 11 (Sustainable Cities and Communities). | 0 – 10 | World Bank SPI Database |
| 22 | SPI.D3.13.CLMT | Data availability for SDG 13 (Climate Action). | 0 – 10 | World Bank SPI Database |
| 23 | SPI.D3.5.GEND | Data availability for SDG 5 (Gender Equality). | 0 – 10 | World Bank SPI Database |
| 24 | SPI.D3.7.ENRG | Data availability for SDG 7 (Affordable & Clean Energy). | 0 – 10 | World Bank SPI Database |
| 25 | SPI.DIM1.5.INDEX | Use of national data by international organizations (SPI Dimension 1.5). | 0 – 10 | World Bank SPI Metadata |
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## Notes on Scales

- SPI / ODIN: 0–10 scale for statistical performance and open data capacity.

- UNCTAD FTRI components: 0–1 normalized readiness indices.

- RISE: 0–100 policy/regulatory scores.

- CCKP: Measured in °C, %, or days; converted to 0–1 range during normalization.

- Climate Finance (Fan et al., 2024): USD million or % share; normalized to 0–1 by year.

## Reference Example

Fan, S., Wang, C., Zhong, H., Dong, X., & An, K. (2024). International Multilateral Public Climate Finance Dataset from 2000 to 2023. Nature Scientific Data, Peking University. https://pmc.ncbi.nlm.nih.gov/articles/PMC12144247