

# ISO/IEC 30134-6:2021 (E)

## Information technology — Data centres key performance indicators — Part 6: Energy Reuse Factor (ERF)

---

### Contents

|         |  |
|---------|--|
|         | Foreword   |
|         | Introduction   |
| 1       | Scope  |
| 2       | Normative references   |
| 3       | Terms, definitions, abbreviated terms and symbols                                    |
| 3.1     | Terms and definitions  |
| 3.2     | Abbreviated terms  |
| 3.3     | Symbols  |
| 4       | Applicable area of the data centre   |
| 5       | Determination of ERF   |
| 6       | Measurement of EReuse and EDC  |
| 7       | Application of ERF   |
| 8       | Reporting of ERF   |
| 8.1     | Requirements   |
| 8.1.1   | Standard construct for communicating ERF data  |
| 8.1.2   | Data for public reporting of ERF   |
| 8.1.2.1 | Required information   |
| 8.1.2.2 | Supporting evidence (where required by authorities having jurisdiction)              |
| 8.2     | Recommendations  |
| 8.2.1   | Trend tracking data  |
| 8.3     | ERF derivatives, interim ERF   |
| Annex A | (informative) Examples of use  |
| A.1     | Examples of ERF usage  |
| A.1.1   | General  |
| A.1.2   | Correct use of ERF   |
| A.1.2.1 | Warm air/water reuse outside the data centre boundary                                |
| A.1.2.2 | Heat to run an absorption chiller or using heat pump to increase temperature         |
| A.1.2.3 | Heat to generate electricity used elsewhere  |
| A.1.3   | Incorrect use of ERF   |
| A.1.3.1 | Heat to run an absorption chiller or generate electricity for use in the data centre |
| A.1.3.2 | Heating a data centre support space or pre-heating of data centre generators         |
| A.1.4   | Split-system complications   |
| A.1.5   | Heat pumps and liquid cooling  |
| A.1.5.1 | General  |
| A.1.5.2 | Heat pumps for cooling purpose only  |
| A.1.5.3 | Heat pumps for heating purpose and mixed arrangements                                |
| Annex B | (informative) Energy conversion factors  |
| B.1     | Energy measurement at the data centre boundary                                       |