CERTIF	FICATE	
Certificate-ID:	C-09-2020-21250307	
Certificate for:	Audited energy data ma	nagement system
Certificate holder:	SIEMENS	Siemens AG Gleiwitzer Str. 555 90475 Nuremberg Germany
Test report:	B-09-2020-21250307	
Components:	SIMATIC Energy Manager PRO SIMATIC Energy Manager Basic SIMATIC Energy Suite & WinCC P SIMATIC S7 EE-Monitor S7-1500/ SIMATIC Energy Meter Energy Analytics	
Basis of certification:	Audited energy data management catalogue of requirements Version	
Scope of certification:	Document and system review of fur management systems in accordance audits in accordance with ISO 5000 evaluation of machine tools in accord	ce with ISO 50001 et al., energy 02 and the environmental
described in the test re certificate, have been ve components verifiably s	that the functionalities and char eport B-09-2020-21250307 as well rified within the framework of a doo upport compliance with the require al., ISO 50002 and ISO 14955-2 a	I as in the appendix I to the cument and system review. The ements of the chapters of the
This certificate is valid until 30 September 2022.		
Cologne, 10 September 2020		

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Norbert Heidelmann TÜV Rheinland Energy GmbH Energy and Carbon Services

Regular Surveillance www.tuv.com ID 0000049036

Florian Grießl TÜV Rheinland Energy GmbH Energy and Carbon Services

TÜVRheinland CERTIFIED



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## Appendix I to Certificate No. C-09-2020-21250307

## Certification Procedure Audited Energy Data Management System

Siemens AG Gleiwitzer Str. 555 90475 Nuremberg Germany



The following characteristics and functionalities of the components as stated in the certificate were verified within the framework of the auditing:

- Determination of customised business key figures (EnPIs)
- Performance of dependency and regression analyses
- Prices can be stored for determination of costs
- The software is compatible with standard communication interfaces and data transfer technology for the import of the measurement data recorded
- Various types of diagrams and depictions of energy consumption can be selected
- Time-controlled and event-controlled reports can be drawn up automatically
- CO<sub>2</sub>-balances can be drawn up automatically
- The contents of the automatic reports can be customised
- Report are generated in established, common formats
- Customised threshold values can be specified for an early warning system
- The software is set-up according to the PDCA-cycle or supports implementation thereof
- Access rights can be customised for each user
- The system can be operated intuitively and is user-friendly
- Determination of relevant variables for energy-related performance
- Determination of static factors for energy-related performance
- Management and documentation of measures to improve energy performance



The components verifiably support compliance with the requirements of the following chapters of the standard ISO 50001:

6.2	Objectives, energy targets and planning to achieve them
6.3 a), b), c)	Energy review
6.4	Energy performance indicators
6.5	Energy baseline
6.6	Planning for collection of energy data
9.1	Monitoring, measurement, analysis and evaluation of energy
	performance and the EnMS
9.3 c), d)	Management review

The components SIMATIC Energy Manager PRO and Energy Analytics verifiably support compliance with the requirements of the following chapters of the standard ISO 50006:

4.2.4	Defining and quantifying relevant variables
4.2.5	Defining and quantifying static factors
4.3.3	Determining the specific energy performance characteristics
	to be quantified

The components SIMATIC Energy Manager PRO and Energy Analytics verifiably support compliance with the requirements of the following chapters of the standard ISO 50015:

5.3 Energy performance improvement actions

Furthermore, the components verifiably support compliance with the requirements of the following chapters of the standard ISO 50002:

5.4	Data collection
5.7	Analysis
5.8.2	Report

The components SIMATIC Energy Efficiency Monitor and SIMATIC Energy Manager PRO additionally support compliance with the requirements of the standard ISO 14955-2 for the environmental evaluation of machine tools.