



Pump system energy assessment



AS ISO/ASME 14414:2020

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The following are represented on Committee ME-030:

- Australasian Fire and Emergency Service Authorities Council
- Australian Building Codes Board
- Engineers Australia
- Fire Protection Association Australia
- Irrigation Australia Limited
- Master Plumbers Australia
- Pump Industry Australia
- Water Services Association of Australia

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Preface

This Standard was prepared by the Standards Australia Committee ME-030, Pumps.

The objective of this Standard is to specify requirements for conducting and reporting the results of a pumping system energy assessment (hereafter referenced as “assessment”) that considers the entire pumping system, from energy inputs to the work performed as the result of these inputs.

The objective of a pumping system energy assessment is to determine the current energy consumption of an existing system and identify ways to improve system efficiency.

These requirements consist of —

- (a) organizing and conducting an assessment,
- (b) analysing the data from the assessment, and
- (c) reporting and documenting assessment findings.

This Standard is designed to be applied, to open and closed loop pumping systems typically used at industrial, institutional, commercial, and municipal facilities, when requested.

This Standard is focused on assessing electrically-driven pumping systems, which are dominant in most facilities, but is also applicable with other types of drivers, such as steam turbines and engines. The Standard does not —

- (i) specify how to design a pumping system;
- (ii) give detailed qualifications and expertise required of the person using the Standard although provides a list of body of knowledge in Annex C;
- (iii) address the training or certification of persons;
- (iv) specify how to implement the recommendations developed during the assessment, but does include requirements for an action plan;
- (v) specify how to measure and validate the energy savings that result from implementing assessment recommendations;
- (vi) specify how to make measurements and how to calibrate test equipment used during the assessment;
- (vii) specify how to estimate the implementation cost or conduct financial analysis for recommendations developed during the assessment;
- (viii) specify specific steps required for safe operation of equipment during the assessment. The facility personnel in charge of normal operation of the equipment are responsible for ensuring that it is operated safely during the data collection phase of the assessment; or
- (ix) address issues of intellectual property, security, confidentiality, and safety.

This Standard is identical with, and has been reproduced from, ISO/ASME 14414:2019, *Pump system energy assessment*.

As this document has been reproduced from an International Standard, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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