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ENTERPRISE SINGAPORE CALLS FOR PUBLIC COMMENTS ON SINGAPORE STANDARDS – 7 AUGUST 2026

Under the National Standardisation Programme, the public comment period is an important stage of standards development. Members of the public are invited to provide feedback on draft Singapore Standards for publication and work item proposals for development and review of Singapore Standards, Technical References and Workshop Agreements. The establishment of Singapore Standards is done in accordance with the World Trade Organisation's requirements for the development of national standards.

A) Notification of Draft Singapore Standards for Publication

Newly developed and revised Singapore Standards (SSs), and the outcomes of the reviews of existing SSs are available to the public to gather feedback on their contents and status prior to their completion.

Members of the public are invited to comment on the following Singapore Standard(s):

Biomedical and Health – [medical devices for human subjects](#)

Building and Construction – [aluminium alloy windows](#), [fire hydrant](#), [rising mains and hose reel system](#)

Environment and Resources – [renewable energy certificates](#)

Food – [cook-chill food](#)

Quality and Safety – [protective helmets for motorcyclists](#)

Transport – [timber flat pallets](#)

Closing date for comments: **8 October 2026**

For more information on viewing the document(s), [click here](#).

Please submit comments to: standards@enterprisesg.gov.sg.

B) Notification of Work Item Proposals

B.1 Proposal for New Work Items

New Work Items (NWIs) are approved proposals to develop new Singapore Standards, or pre-standards like Technical References and Workshop Agreements. The NWIs are work-in-progress, and the drafts are not available at the public comment stage.

Members of the public are invited to comment on the scope of the following NWi(s):

Electrical and Electronic – [data centre infrastructure](#), [electrical energy storage systems](#)

Environment and Resources – [emissions factor registry](#)

Information Technology – [AI solution deployment and life cycle management](#)

Closing date for comments: **8 September 2026 (except for the two Workshop Agreements which close on 24 August 2026)**

B.2 Proposal for the Review of Singapore Standards

Published Singapore Standards, Technical References and Workshop Agreements are reviewed to determine if they should be updated, confirmed or withdrawn (if they no longer serve the industry's needs) or classified as mature standards (no foreseeable changes; to be reviewed only upon request). The reviews are ongoing, and the new versions/drafts are not available at this juncture. Users can refer to the current standards to provide feedback. [Click here](#) to view or purchase the standards.

Members of the public are invited to comment on the following standard(s) to be reviewed:

Electrical and Electronic – [fire-resistant cables](#), [electrical energy storage systems](#)

Environment and Resources – [environmental management system](#)

Transport – [Permanent Way](#) (2 standards)

Closing date for comments: **8 September 2026**

Members of the public are invited to join as standards partners, co-opted members or resource members subject to the approval of relevant committees and working groups.

To comment or to join in the development of these standards, please write to standards@enterprisesg.gov.sg.

A) Notification of Draft Singapore Standard for Publication

(I) Biomedical and Health

Revision

1. Clinical investigation of medical devices for human subjects – Good clinical practice (Revision of SS ISO 14155:2020) (Identical adoption of ISO 14155:2026)

This standard addresses good clinical practice for the design, conduct, recording and reporting of clinical investigations carried out in human subjects to assess the clinical performance or effectiveness and safety of medical devices.

For post-market clinical investigations, the principles set forth in this standard are intended to be followed as far as relevant, considering the nature of the clinical investigation.

This standard specifies general requirements to protect the rights, safety and well-being of human subjects, ensure the scientific conduct of the clinical investigation and the credibility of the clinical investigation results, define the responsibilities of the sponsor and principal investigator, as well as assist sponsors, investigators, ethics committees, regulatory authorities and other bodies involved in the conformity assessment of medical devices.

The main changes in this revision are as follows:

- strengthening risk management and improved oversight
- enhancing subject protection
- updating study design guidance and adverse event categorisation

Users of this standard include testing, inspection and certification (TIC) bodies, healthcare industry associations, medical device manufacturers and suppliers, research institutions and relevant government agencies.

(II) Building and Construction

Revision

2. Specification for aluminium alloy windows (Revision of SS 212:2007)

This standard specifies requirements for materials, construction, finishes, hardware and performance for aluminium alloy windows. It also provides recommended coordinating sizes.

The main changes in this revision are as follows:

- enhanced safety and durability requirements for window hardware and aluminium profiles
- introduced additional performance and safety tests, including preloading tests
- updated material references and glazing provisions to align with current industry practices and relevant standards

This standard does not cover secondary inner windows and louvre windows.

Users of the standard include manufacturers and suppliers, architects, contractors, façade consultants, TIC bodies, building owners, developers and relevant government agencies.

3. Code of practice for fire hydrant, rising mains and hose reel system (Revision of SS 575:2012+A1:2021)

This standard serves as the technical code for the planning, installation, testing and maintenance of fire hydrant, wet and dry rising mains and hose reels in buildings.

The main changes in this revision have been made to align with current industry practices and the latest international standards for components and materials.

Users of the standard include building developers and owners, engineers, consultants, architects, facility managers and relevant government agencies.

(III) Environment and Resources

Amendment

4. Amendment No. 1 to Code of practice for renewable energy certificates (SS 673:2021+C1:2021)

This amendment includes recommendation that the market-based scope 2 claims domestic and cross-border electricity trade (CBET) renewable energy certificates (RECs) supported by the physical deliverability of electricity to Singapore should be used. Companies may only claim the use of green electricity where the underlying electricity is physically delivered into Singapore. RECs that are not supported by such physical deliverability are not eligible for use in Scope 2 claims.

Users of the standard include REC registries, traders, brokers, end-users and installation owners.

([Click here](#) to download the amendment.)

(IV) Food

Revision

5. Code of practice for the processing and handling of cook-chill food (Revision of SS 630:2017)

This standard provides requirements and recommendations for the processing and handling of cook-chill food ready for consumption with or without reheating. It also covers products in mass catering and retail.

This standard is applicable to cook-chill food of all types that have been subjected to the process of heat treatment and rapid chilling.

It aims to support the processing and handling of cook-chill food in order to maintain their safety and quality up to the time of final sale.

The main changes in this revision have been made to align with current industry practices and reflect more prescriptive food safety requirements and recommendations.

Users of the standard include food manufacturers and suppliers, food caterers, central kitchens, food retailers, TIC bodies, institutions of higher learning and relevant government agencies.

(V) **Quality and Safety**

Withdrawal

6. Specification for protective helmets for motorcyclists (SS 9:2014)

This standard is recommended for withdrawal as it will be replaced by SS 9:2024, "Specification for protective helmets for motorcyclists" from 19 November 2026.

(VI) **Transportation**

Mature

7. Specification for timber flat pallets (SS 334:2010)

This standard specifies the principal dimensions and tolerances of newly constructed flat timber pallets of single-deck, double-deck, reversible and non-reversible of all entry types, relating to their transportation, storage, and handling by appropriate equipment. It also specifies performance requirements and testing methods.

This standard also recommends the treatment required under the International Standards for Phytosanitary Measures (ISPM15) and storage thereafter.

An amendment has been made to this standard. It includes updates of relevant references to reflect revised international standards, and clarification of split measurement rules with an illustrative example.

Users of the standard include manufacturers and suppliers, and depot personnel.

([Click here](#) to download the amendment.)

Copies of the draft are available at:

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Viewing Singapore Standards from Public Libraries

Singapore Standards are viewable multimedia stations at all Public Libraries via NLB databases "Singapore Standards Collection" at <https://reference.nlb.gov.sg/guides/sci-tech/tech/standards-and-references/> Please refer to <https://www.nlb.gov.sg/main/visit-us> for address and viewing hours.

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B) Notification of the Work Item Proposals

B.1 Proposal for New Work Items

(I) Electrical and Electronic

1. Data centre infrastructure – Direct current power architecture – Design and operation requirements

This Technical Reference specifies the safety, reliability, design, and operational requirements for low-voltage direct current (LVDC) power distribution systems supporting high-density artificial intelligence (AI) workloads. It aims to facilitate safe deployment, regulatory assessment, workforce capability development, and industry adoption of next-generation DC-powered data centre infrastructure.

It applies to facility-level DC power distribution, including emerging 800 VDC architectures, covering the entire electrical pathway from the medium-voltage network connection and AC-to-DC conversion to the IT equipment interface. The scope also encompasses the integration of on-site DC generation and energy storage systems.

It specifies requirements for system architecture, fault isolation, protection coordination, earthing arrangements, DC arc-flash mitigation, commissioning, maintenance, and personnel competency. Additionally, it provides guidance for managing the dynamic, rapidly fluctuating power demands characteristic of AI computing.

Users of the standard include data centre operators, facility designers, consultants, equipment manufacturers, system integrators, TIC bodies, industry associations and relevant government agencies.

2. Electrical energy storage (EES) systems – Part 5-2: Safety requirements for grid-integrated EES systems – Electrochemical-based systems (Modified adoption of IEC 62933-5-2:2025)

This standard describes safety aspects for people and, where appropriate, safety matters related to the surroundings and living beings for grid-connected energy storage systems where an electrochemical storage subsystem is used.

This standard is applicable to the entire life cycle of a battery energy storage system (from design to end of service life management). It provides further safety provisions that arise due to the use of an electrochemical storage subsystem (e.g. battery system) in EES systems that are beyond the general safety considerations described in IEC 62933-5-1, “Electrical energy storage (EES) systems – Part 5-1: Safety considerations for grid-integrated EES systems – General specification”.

This standard specifies the safety requirements of an "electrochemical" energy storage system as a "system" to reduce the risk of harm or damage caused by the hazards of an electrochemical energy storage system due to interactions between the subsystems.

Users of the standard include engineers, architects, building owners, training providers, industry associations and relevant government agencies.

(II) Environment and Resources

3. Guidance for the development of emissions factor registry – Governance and maintenance framework

This Workshop Agreement (WA) provides guidance on the governance and maintenance of an Emissions Factor (EF) Registry. It is intended for users to develop emission factors using methodologies aligned with international standards.

The guidelines are intended to cover the following:

- technical infrastructure and data management requirements for an EF registry
- protocols for evaluating, selecting, and managing the life cycle of EFs
- encompass governance principles and supporting processes designed to ensure data integrity, transparency, and long-term stewardship across a multi-stakeholder ecosystem

Users of the standard include EF management, contributors, beneficiaries, TIC bodies, associations and relevant government agencies.

Interested parties and subject matter experts are welcome to participate in the workshops convened to develop this WA. To register your interest, please visit: <https://forms.gle/kXKA43Yhiyd3tpMs6>

The closing date for comments and registration of interest for the WA is 24 August 2026.

Comment period: 7 August to 24 August 2026

(III) Information Technology

4. Guidelines for AI solution deployment and life cycle management

This WA provides practical guidance for enterprises, particularly small and medium enterprises (SMEs) – on the effective adoption of AI solutions to enhance profitability and productivity.

The guidelines is intended to cover the procurement, development, deployment, operation and maintenance of AI solutions. The WA will reference relevant international and local AI frameworks and standards that enterprises can readily adopt.

Users of the standard are any enterprises, with a particular focus on SMEs.

Interested parties and subject matter experts are welcome to participate in the workshops convened to develop this WA. To register your interest, please visit: <https://form.gov.sg/6a5f193f2af35fb5c32d6780>.

The closing date for comments and registration of interest for the WA will be 24 August 2026.

Comment period: 7 August to 24 August 2026

B.2 Proposal for the Review of Singapore Standards

(I) Electrical and Electronic

1. Fire-resistant cables of rated voltage up to and including 600/1000V for fixed installations, having low emission of smoke and corrosive gases when affected by fire – Requirements and test methods (SS 299:2021) (Modified adoption of BS 6387:2013)

This standard specifies the construction, mechanical and electrical performance requirements and describes test methods for circuit integrity, for 300/500 V fire-resistant multicore screened fixed installation cables, and for armoured and non-armoured fire-resistant power and control cables of rated voltages up to and including 600/1000 V, having low emission of smoke and corrosive gases when affected by fire.

The standard applies to cables designed for use in critical life-safety and firefighting systems where continued operation during a fire is essential. It covers cable construction, performance criteria, and testing requirements for assessing fire resistance and circuit integrity.

The revision aims to align the standard with current technical developments, technological advancements, and industry practices to support the safe and reliable operation of essential systems during emergency situations.

It does not cover cables rated above 600/1000 V, mineral-insulated copper-clad cables, communication cables, or the design, selection, and installation of electrical distribution systems.

Users of the standard include cable manufacturers and suppliers, consulting engineers, electrical designers, contractors, developers, building owners, facility managers, TIC bodies and relevant government agencies.

2. Electrical energy storage (EES) systems – Safety considerations for grid-integrated EES systems – General specification (TR 77-2:2020) (Modified adoption of IEC TS 62933-5-1:2017)

This standard is recommended for withdrawal as IEC TS 62933-5-1:2017 has been revised and published as an international standard (IEC 62933-5-1:2024).

The TR will be replaced by SS 725-1-1:2026.

(II) Environment and Resources

3. Environmental management system – Requirements with guidance for use (SS ISO 14001:2015+A1:2024)

This standard specifies the requirements for an environmental management system that an organisation can use to enhance its environmental performance. It is intended for use by an organisation seeking to manage its environmental responsibilities in a systematic manner that contributes to sustainability.

The standard is reviewed with the intention of updating it, to ensure local enterprises remain globally competitive and aligned with new climate action requirements.

Users of the standard include manufacturers, suppliers, buyers, service providers, testing, TIC bodies, training providers and relevant government agencies.

(III) Transportation

4. Terminology and abbreviations for the Permanent Way (TR 81:2020)

This standard covers the definitions of terms and abbreviations used in works related to the Permanent Way, including the trackside environment and the collection system installed on the wayside of the track, but excludes the overhead collection system.

5. Maintenance regime for the Permanent Way (TR 85:2021)

This standard covers the maintenance regime and replacement of any Permanent Way asset located underground, at grade and on elevated structures. It does not include the maintenance of power rail (including supports and fixtures), trackside equipment and vehicle gauges.

The standards on Permanent Way are reviewed with the intention to update them.

Users of the standards include railway operators, contractors, institutes of higher learning and relevant government agencies.

Frequently asked questions about public comment on Singapore Standards:

1. What is the public comment on Singapore Standards?

Singapore Standards are established based on an open system which is also in accordance with the requirements of the World Trade Organisation. These documents are issued as part of a consultation process before any standards are introduced or reviewed. The public comment period is an important stage in the development of Singapore Standards. This mechanism helps industry, companies and other stakeholders to be aware of forthcoming changes to Singapore Standards and provides them with an opportunity to influence, before their publication, the standards that have been developed by their industry and for their industry.

2. How does public comment on Singapore Standards benefit me?

This mechanism:

- ensures that your views are considered and gives you the opportunity to influence the content of the standards in your area of expertise and in your industry;
- enables you to be familiar with the content of the standards before they are published and you stand to gain a competitive advantage with this prior knowledge of the standards.

3. Why do I have to pay for the standards which are proposed for review or withdrawal?

These standards are available for **free viewing** at TOPPAN Ecquaria Pte. Ltd. and all Public Libraries. However, the normal price of the standard will be charged for those who wish to purchase a copy. At the stage where we propose to review or withdraw the standards, the standards are still current and in use. We seek comments for these standards so as to:

- provide an opportunity for the industry to provide inputs for the review of the standard that would make the standard suitable for the industry's use,
- provide feedback on the continued need for the standard so that it will not be withdrawn.

4. Why are comments only accepted through the public comment form provided by Enterprise Singapore?

The public comment form enables users to submit their comments in a standardised and structured manner. The Working Group (WG) that will be reviewing the comments will have a better understanding of what the commenter has proposed, the rationale for the changes and where these changes will be made in the standard. This will assist the WG in addressing the comments more effectively.

5. What happens after I have submitted my comments?

The comments will be channelled to the relevant WGs for consideration and you will be informed of the outcome of the committee's decision. You may be invited to meet the WG if clarification is required on your feedback.

6. Can I view drafts after the public comment period?

Drafts will not be available after the public comment period.

7. How do I request for the development of a new standard?

You can propose the development of a new standard [here](#).