## Queensland Government Response to the Review of Queensland's *Electrical Safety Act 2002*



## Foreword

As the uses of electricity diversify through technological advancements, electrical safety in Queensland must continue to be a priority. Queensland's regulatory framework for preventing death, injury and destruction that can be caused by electricity must evolve along with these changes.

In 2020, the Queensland Government announced a review of the *Electrical Safety Act 2002* to consider the Act's purpose, regulation-making powers, definitions, duties and requirements, relationship with contemporary work health and safety legislation, and evidence-based enhancements more broadly, with a particular focus on new and emerging technologies.

Centrally, the Review presented an opportunity to explore ways in which Queensland's electrical safety framework can better align with contemporary developments, by ensuring the technical legal aspects of the legislation are fit-forpurpose.

The Report makes 83 recommendations. These recommendations are the result of the reviewer's consideration of 57 public submissions, six meetings of an industry reference group, eight meetings of working groups, and over 40 meetings with key organisations and individuals throughout 2021.

The recommended reforms are broad in scope, with many requiring further exploration of complex and comprehensive proposals aimed at re-thinking the regulation of electrical safety in Queensland.

A further consultation process on the Report and a Discussion Paper, which explored three key topics in further detail, commenced in May 2023. I wish to thank those that made submissions. The submissions, including those from industry, worker representatives and the community, will be critical in Government's consideration of the recommendations.

The Government is committed to the task of working through both the short-term and long-term projects that flow from the Report's recommendations.

Finally, I wish to extend my sincere thanks to the Reviewer, Mr Dick Williams, staff from the Office of Industrial Relations and all who contributed to the Review. The result is a significant step forward along our shared path of ensuring electrical safety in Queensland.



The Hon Grace Grace MP Minister for State Development and Infrastructure Minister for Industrial Relations and Minister for Racing



## Introduction

Queensland's electrical safety laws were last reviewed in 2002 when the *Electrical Safety Act 2002* (the Act) was introduced.

The Act establishes a legislative framework which defines and regulates electrical safety standards across the state, with the aim of preventing people being killed or injured by electricity, and of property being destroyed or damaged by electricity.

The Act is supported by the Regulation and five electrical safety codes of practice.

Since the commencement of the Act, there has been significant advancements and changes to the technological landscape, including transformations across electricity generation, supply and distribution.

On 25 June 2019, the Queensland Minister for Education, and Minister for Industrial Relations, the Honourable Grace Grace MP (the Minister) announced that the then Electrical Safety Commissioner, Mr Greg Skyring, would convene a roundtable to discuss safety in large-scale solar farms. This followed a judicial decision that found safety on solar farms does not clearly fall within the remit of the Act.

As part of this announcement, the Minister noted that the "decision clearly highlighted that Queensland's electrical safety laws had not kept pace with new and emerging technologies, including large-scale solar farms".

In January 2020, the then Commissioner drew on the outcomes of an extensive stakeholder roundtable process, as well as broader experience, to deliver findings and recommendations to the Minister in a report titled *Improving Electrical Safety in Queensland: A Report by the Commissioner for Electrical Safety.* 

The first recommendation of the Commissioner's report was that the

Queensland Government should undertake a review of the Act, including "the objects of the Act and regulation-making powers, to ensure it is fit for purpose and can keep pace with new and emerging technologies."

In August 2020, the Minister announced a review of the Act (the Review) be undertaken by an external independent reviewer with the support of a departmental secretariat within the Office of Industrial Relations (OIR).

The purpose of the Review was to consider what legislative changes are necessary to ensure Queensland's electrical safety laws are fit for purpose, specifically in relation to new emerging technologies. This purpose was instrumental for the Queensland Government in determining the Terms of References for the Review.

In December 2020, Mr Dick Williams was appointed as the Independent Reviewer to lead the Review. Mr Williams completed the review in December 2021 upon submitting the *Review of Queensland's Electrical Safety Act 2002 – Final Report* to the Government for consideration.

In May 2023, a consultation process on the Final Report and a Discussion Paper, which explored three key topics in further detail, commenced. OIR received 78 submissions to the Discussion Paper and 88 to the Final Report. Submissions were received from a range of industry bodies, businesses, government departments, Government Owned Corporations, worker representatives, committees, and individuals.

OIR considered the submissions received and engaged an external supplier to deliver economic analysis on the feasibility of the recommendations considered by the Discussion Paper. The submissions and economic analysis have informed this Government response.



Given the number and breadth of the recommendations, many recommendations will require further consideration. Government will continue to work through the recommendations to deliver important improvements to Queensland's electrical safety framework.



## Report Recommendations and Government Response

The Report contains 83 recommendations to improve electrical safety in Queensland, and particularly to ensure the *Electrical Safety Act 2002* keeps pace with new and emerging technology. The Government has responded to each of the recommendations below with the intended pathway for reform. Many of the recommendations from the Review will require significant research, analysis and consultation prior to full consideration of implementation given the complexity of their application.

No.	Recommendation	Government Response
1	It is recommended that modernising the scope of the Act to ensure new and emerging energy generation and storage technologies are incorporated, whether or not they are connected to the grid or stand-alone in nature, by including in the definition of electrical equipment/electrical installation: (a) solar PV modules, designed to be connected to other solar PV modules and when connected be of a combined voltage of greater than extra low voltage; and (b) battery cells, when connected to other cells for the purpose of storing and releasing power of a combined voltage of greater than extra low voltage.	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 1). Government determined that the recommendation is supported in principle and is to progress through a legislative vehicle.
2	Review the electrical safety risks presented in electric vehicles and consider their inclusion in the scope of regulation by the Act. It is further recommended that the Electrical Safety Office engage with other relevant Queensland and Australian regulators as needed to ensure appropriate scope and to avoid both regulatory gaps and duplication.	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 3). Government determined that the recommendation requires further consideration and to be considered nationally.
3	Review the electrical safety risks presented in hydrogen-based electricity generation and storage technologies, including hydrogen-powered vehicles, and consider their inclusion in the scope of the Regulation by the Act. It is further recommended that the Electrical Safety Office engage with other relevant Queensland and Australian regulators as needed to ensure appropriate scope and to avoid both regulatory gaps and duplication.	Further consideration required.

No.	Recommendation	Government Response
4	To ensure the Act keeps pace with technological change, consider creating a general category of exception to the "extra low voltage" threshold for the definition of "electrical equipment", to reflect risk to life and property by ELV electrical equipment.	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 1). Government determined that the recommendation is supported in principle and is to progress through a legislative vehicle.
5	<ul> <li>For solar PV panels falling within the definition of electrical equipment (see Recommendation 1), consider ensuring that the resultant "electrical work" definition is amended as needed to require:</li> <li>(a) all connections and testing of PV module cabling as well as earthing and bonding work be performed by competent licensed electrical worker/s; and</li> <li>(b) installation of cabling to be carried out by a licensed electrical worker or an unlicensed person assisting a licensed electrical worker and working under their direct supervision; and</li> <li>(c) the mounting, fixing, and locating of solar PV modules and arrays to be carried out by competent persons under the direct supervision (Recommendation 16) of a licensed electrical worker (Act s 18(1)(f)).</li> </ul>	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 2). Government will undertake targeted consultation with industry and unions on the 'electrical work' definition to ensure it is fit for purpose and contemporaneous.
6	Consider including within the definition for Electrical Work that the electrical aspects of air conditioning / mechanical services work is electrical work and the tasks of fixing, installation of brackets/mounting of equipment and mechanical cable protection is ancillary to the complete installation.	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 2). Government will undertake targeted consultation with industry and unions on the 'electrical work' definition to ensure it is fit for purpose and contemporaneous.
7	Ensure the installation of mechanical protection for cables, including but not limited to conduit (both plastic and metal), cable racks and trays, skirting, troughs etc., and the installation of cabling into these protection components is the work of licensed electrical workers or to be	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 2). Government will
	performed under the direct supervision of a licensed electrical worker. Associated with this work	undertake targeted consultation with

No.	Recommendation	Government Response
	is earthing and bonding work, to be defined as electrical work (recommendation 5) and must only be performed by competent licensed electrical worker/s.	industry and unions on the 'electrical work' definition to ensure it is fit for purpose and contemporaneous.
8	<ul> <li>For electric vehicles (or parts thereof) falling within the definition of "electrical equipment" (see Recommendations 2 and 4), consider requiring:</li> <li>(a) appropriately licensed electrical workers to carry out the electrical work on the electrical components when the vehicle is serviced and or repaired, to ensure the safety of owners/operators and community; and</li> <li>(b) appropriately licensed electrical workers carry out the electrical work on the electrical</li> </ul>	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 3). Government determined that this recommendation will not be implemented as proposed. Instead, further consideration of how to maintain and improve electrical safety in
	components of the vehicle when an electric vehicle requires on-road break-down work to ensure safety of owners/operators, the community and first responders.	the context of electric vehicles will occur through a roundtable who will liaise with the Commonwealth and other Australian jurisdictions.
9	It is recommended that the electrical aspects of fire protection work are recognised as "electrical work", notwithstanding equipment being "extra low voltage", either via the implementation of Recommendation 3 or a specific amendment to the definition of "electrical work".	Further consideration required.
10	Ensure all hardwired smoke alarms are to be labelled on the cover to identify that it is electrical equipment and should only be maintained by a licensed electrical worker, and. (a) it is recommended that the Electrical Safety Office undertake a community awareness campaign to make the general public aware and promote electrical safety throughout Queensland.	Further consideration required.
11	Ensure the purpose of the Act is broad enough to establish an electrical safety framework able to remain responsive to the risks of new technologies as they arise, considering the inclusion of the purposes of "community safety" and "consumer protection".	Further consideration required.

No.	Recommendation	Government Response
12	Evaluate existing powers to make subordinate legislation and amend the Act as required to enable regulations to be made with respect to new technologies and methodologies that pose an electrical safety risk, as those technologies arise (Act s 210).	Support in principle.
13	Clarify that off-grid systems are captured within the meaning "electrical equipment" and are therefore within the definitions of Serious Electrical Incident and Dangerous Electrical Event (Act, ss 11-12), giving rise to duties to notify the Regulator and otherwise respond to such incidents (Regulations, Part 14).	Support in principle.
	(a) Consider creating an awareness campaign to ensure stakeholders understand the off-grid applicability of incident and event-related notification requirements.	
14	Clarify the definitions of "serious electrical incident" and "dangerous electrical event" by adding examples for different levels of voltage, including ELV (considering Recommendation 4), and clarifying terminology used in those definitions such as: (a) considering replacing the term "doctor" with standard national law terminology – "medical	Active scoping and consideration by Government.
	practitioner" (s 11(b)-(c))	
	(b) specifying what it means to be "treated" by a doctor/medical practitioner, including what is not deemed "treatment", as well as what is meant by "supervision" (s 11(b)-(c))	Active scoping and consideration by Government.
	(c) specifying a threshold for "significant property damage" (s 12(e)).	Active scoping and consideration by Government.
15	Provide greater clarity by stipulating that testing electrical equipment is deemed a form of live work (Regulations, Division 1) to address the lack of understanding and awareness	Support in principle.
16	It is recommended that the three levels of supervision be defined in the legislation by explicitly including the three recognised levels of supervision – direct, general and broad, as follows: Direct means constant in person monitoring by the licensed electrical worker, who remains within sight and/or earshot of the work being carried out by a person directly assisting the licensed electrical worker in conducting electrical work.	Active scoping and consideration by Government and will form part of future consideration of the 'electrical work' definition.

No.	Recommendation	Government Response
	General means for a person directly assisting the licensed electrical worker in conducting electrical, the licensed electrical worker is available in the same work location for in person assistance or instruction as needed. Broad means occasional in person contact at intervals during the day determined by the licensed electrical worker, for a person assisting the licensed electrical worker.	
17	Consider clarifying miscellaneous requirements related to supervision, by: (a) inserting the word "direct" before "supervision" in section 18(2)(e)(iii); and	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 2). Government will undertake targeted consultation with industry and unions on the 'electrical work' definition to ensure it is fit for purpose and contemporaneous.
	(b) deleting the exception to holding a current electrical license for teachers supervising the electrical work of students (s 55(3)(g)), thereby requiring teachers to hold a current electrical license; and	Further consideration required.
	(c) requiring direct supervision for a person directly assisting the licensed electrical worker in the laying, cutting or sealing underground cables that are part of the works of an electricity entity before the initial connection of the cables to an electricity source (s 18(j)).	Initial analysis and consultation on this recommendation formed part of the Decision Paper (topic 2). Government will undertake targeted consultation with industry and unions on the 'electrical work' definition to ensure it is fit for purpose and contemporaneous.
18	Consider implementing expanded requirements for Safety Observers to encompass situations in which: (a) work includes testing, as a form of live work, by amending the current exemption in the Regulations, section 22(4)(a); and/or	Further consideration required.
	(b) work is undertaken near exposed live lines, in addition to the current requirements for a risk assessment informing other control measures, required in the Regulations, s68(2).	Further consideration required.

No.	Recommendation	Government Response
19	Consider amending the definition of safety observer to require a safety observer maintains currency of competence in rescue and resuscitation and the non-accredited course – "provide support to an electrical tradesperson" (RIISAM214A) or equivalent as determined by the Regulator (Schedule 9). (a) that training should be undertaken prior to acting as a safety observer and refreshed every 12 months.	Further consideration required.
20	Consider clarifying the meaning of miscellaneous terms found in core definitions of the Act and Regulations, to ensure stakeholder understanding and appropriate scope. Specifically, within the Act, it is considered that further clarification is required in relation to: (a) the definition of a "prescribed entity" generally via characteristics, other than listed entities (Regulations, ss 6, 233)	Further consideration required.
	(b) the meaning of "an area in which the atmosphere presents a risk to health and safety from fire or explosion", to assist with straightforward application to real world situations (s 14(1)(c))	Further consideration required.
	(c) the relationship between AS3000 and AS3009 and the definition of "electrical work" (s 18)	Further consideration required.
	(d) the meaning of "performance of work" in contrast to "performance of electrical work" (s 56(3)(b)).	Further consideration required.
21	Consider implementing enhanced regulation of the supply chain for in-scope electrical equipment by adopting additional duties found in "non-conforming building products" (NCBP) legislation, administered by the Queensland Building and Construction Commission, including consideration of:	Further consideration required.
	(a) ensuring the product/equipment is safe as per the safety standard; and	Fronth an according to a social d
	(b) ensuring each level of the supply chain only passes on products with the required information for the product/equipment; and	Further consideration required.
	(c) reporting requirements for licensed electrical workers when they encounter work employing non-conforming electrical products; and	Further consideration required.

No.	Recommendation	Government Response
	(d) ensuring requirements to comply with recall orders extend throughout the supply chain and including in multiple jurisdictions.	Further consideration required.
	In addition, consideration of expanded duties in relation to non-conforming electrical equipment to: (e) empower the Regulator to require, on demand, the supplier of relevant equipment to provide	Further consideration required.
	that equipment for testing at no cost to the Regulator (s 184); and	
	(f) enabling the Regulator to impose a condition on a certificate of conformity (s155(a)); and	Further consideration required.
	(g) establishing prohibitive penalties for non-conforming electrical equipment; and	Further consideration required.
	(h) clarifying the relationship between NCBP legislation scope and electrical safety requirements and legislation.	Further consideration required.
22	Consider strengthening requirements for importers and suppliers of electrical equipment to confirm they conform with the appropriate standard or Regulations, whichever is greater, and are electrically safe prior to sale. (i) noting that the applicable standard or Regulations is that at the time of import or manufacture in Australia.	Further consideration required.
23		Support in principlo
23	Consider enhancing the Regulator's powers to cancel responsible supplier registrations; for example, where the person is ineligible, overseas or interstate (Regulations ss 139-142).	Support in principle.

No.	Recommendation	Government Response
24	Consider including explicit duties of Qualified Technical Persons (QTP) in electrical safety legislation, as set out in current ESO guidance on the role of a QTP (as published on the WorkSafe website The role of the qualified technical person (QTP)   WorkSafe.qld.gov.au), requiring QTPs to:	Further consideration required.
	<ul> <li>(a) develop and implement a safe system of work, and review and update procedures; and</li> <li>(b) ensure currency of worker competence and that scope of work is within a worker's current license scope and competence level; and</li> <li>(c) ensure appropriate levels of supervision for all workers, including apprentices and trainees (recommendation 13); and</li> <li>(d) annually arranging training and skills programs for workers, and regularly consult with workers on training needs; and</li> <li>(e) advise the PCBU and workers on compliance matters, including Australian Standards, legislation, and codes of practice.</li> </ul>	
25	Consider introducing a requirement that all businesses that employ (non-contract) electrical workers also must directly employ a QTP.	Further consideration required.
26	Consider introducing administrative means to ensure QTPs working across several organisations can fulfill the duties of the position effectively.	Further consideration required.
27	Clarify the meaning of "importer" for the purpose of ensuring the appropriate scope of duties to ensure products imported are electrically safe (s 8)	Further consideration required.
28	Align the status of codes of practice made under the ES Act with the status of codes of practice made under the Work Health and Safety Act 2011 (s 26A), requiring compliance with the code of practice or a standard equivalent to or higher than the standard required under the code of practice.	Active scoping and consideration by Government.
29	Consider including within the Act, provisions equivalent to Health and Safety Representatives (HSR) and Work Health and Safety Officers (WHSO) found in the Work Health and Safety Act 2011	Active scoping and consideration by Government.

No.	Recommendation	Government Response
30	Consider implementing a requirement for consultation between duty holders, analogous to requirements under the Work Health and Safety Act 2011 (s 46). That is, if more than one person has a duty in relation to the same matter under the Act, each person with the duty must, so far as is reasonably practicable, consult, cooperate and coordinate activities with all other persons who have a duty in relation to the same matter.	Active scoping and consideration by Government.
31	Explore assessment requirements for licences, including a requirement for satisfactory completion of one theory and two practical tests as part of an enhanced licence eligibility pathway for the electrical worker and electrical contractor licences.	Further consideration required.
32	Explore reforming occupational electrical licence eligibility with assessments to ensure licensees hold the technical and theoretical competency required to be eligible to apply for an electrical licence. Replicating the Victorian Electrical Licencing Assessment (ELA) approach.	Further consideration required.
	(a) it is considered this licensing assessment may be developed by the Commissioner for Electrical Safety and Electrical Licensing Committee in conjunction with the Electrical Safety Office.	
33	Enhance the role of assessment administration by creating an assessment section within the Electrical Safety Office that oversees, administers and audits a number of Registered Training Organisations authorized to conduct assessments	Further consideration required.

No.	Recommendation	Government Response
34	Consider the introduction of CPD requirements for all licence holders, phasing in a requirement at initially low points attainment threshold (recommended at 6 hours/year equivalent or similar), to be increased over a suitable period of time until full implementation is achieved over no more than two contractor licence periods (six years). (a) It is considered that a full CPD program would not exceed a total of 20 hours CPD per year, or 60 hours each three-year licensing period upon full implementation. It is further recommended that for electrical contractors, professional development activities may include four areas of competence being technical, safety, business and leadership to ensure maintenance of competency across the scope of the licence; and (b) for licensed electrical workers who hold a supervisory or management role, a maximum of 15 hours CPD per year across technical, safety and leadership; and (c) and for electrical worker license holders, a maximum of 12 hours CPD per year across technical and safety in accordance with the maintenance of competency across the scope of	Active scoping and consideration by Government.
35	<ul> <li>the licence.</li> <li>Consider reforming licence renewals to include testing to ensure licensee competency has been maintained through the licensed period, including by considering the following amendments:</li> <li>(a) empowering the Commissioner to conduct an initial review of licensing renewal assessments, supported by the Electrical Licensing Committee (ELC); and</li> <li>(b) informed by review outcomes, the Commissioner and ELC to develop and recommend a skilling/training program inclusive of an overview of legislative requirements, relevant changes in legislation, codes of practice and standards, requirements when working with apprentices and trainees and young people and other testing requirements as appropriate; and</li> <li>(c) empower the Electrical Safety Office to develop a licence renewal assessment informed by these outcomes.</li> </ul>	Further consideration required.

No.	Recommendation	Government Response
36	Consider introducing licence renewal assessment every five years for electrical workers and every three years for electrical contractors.	Further consideration required.
37	To assist apprentices to transition to work, consider deeming an apprentice who successfully completes all apprenticeship and licence testing requirements and who lodges a licence application competent to hold an interim electrical worker licence for up to 3 months while the application is considered.	Further consideration required.
38	Consider providing all licensed electrical workers with an electronic copy of relevant Australian Standards as part of licencing fees (related to Recommendation 62).	Active scoping and consideration by Government.
39	Consider introducing a requirement where a licenced electrical worker is undertaking work in Queensland with an external licence from another jurisdiction and their primary place of residence is in Queensland, that the person applies for a Queensland licence after a period of time that could be considered and informed by the Electrical Licensing Committee.	Active scoping and consideration by Government.
10	Ensure photographic electrical licences, based on the current Workplace Health and Safety Queensland licensing approach, are incorporated within the ESO's electronic licensing database, to prevent and deter fraudulent use of licences by unlicensed or suspended licence holders.	Support in principle.
11	It is recommended that a fit and proper person test for Electrical Contractors inclusive of the Qualified Technical Person and Qualified Business Person roles be introduced by establishing no unsuitable previous record of dishonest business activity, dangerous or serious safety breaches and criminal convictions exist. Thus, enabling a regulatory lever to prevent unethical business practices such as phoenixing, declaring bankruptcy to avoid disciplinary measures, etc.	Further consideration required.
42	Consider removing existing accredited training requirement of QBPs on an electrical contractor's licence and replace with a requirement to complete all the business components of the Cert IV in Electrotechnology – Electrical Contracting (UEE42120) or equivalent.	Further consideration required.

No.	Recommendation	Government Response
	(a) Consider removing provisions for QBP in the Regulations s 7(d)(iii) to accept business experience as equivalent to formal qualifications and experience as experience is not a precursor to competence.	
43	Consider implementing a requirement for QBPs or the PCBU to accept the reasonable advice, suggestions and solutions provided by a QTP with respect to electrical safety. Further, consider implementing a penalty infringement should the QBP or PCBU fail to act on the reasonably practicable electrical safety advice provided by a QTP.	Further consideration required.
44	Consider clarifying reporting requirements when electrical workers or contractors encounter non-conforming products or other unsafe equipment or installations.	Further consideration required.
45	Explore the development and implementation of an electronic reporting portal to enable electrical contractors and their workers to submit reports for inspection and testing results, including evidence of tests to be administered by the Electrical Safety Office. (a) it is further recommended the reports should include a list of the in-scope electrical equipment/devices installed to assist the Electrical Safety Office to regulate compliance with legislation and wiring rules as well as to assist in the event of a product recall.	Further consideration required.
46	Consider improving rural compliance with electrical safety standards, by removing the exemption for holding an electrical work licence for "remote rural installation work" (55(3)(c)) over a suitable transitional period related to recommendation 47.	Further consideration required.
47	Consider implementing a rural electrical installation auditing program over an appropriate transitional period (related to recommendation 46) to initially audit for electrical safety to address immediate or imminent risk, and to ensure the immediate removal of the electrical risks posed by those electrical installations.	Further consideration required.
	(a) It is further considered that those electrical installations that are non-compliant should be brought up to the required standard over a suitable period of time in consultation and agreement with the Electrical Safety Office via plans submitted and approved by the Regulator.	
48	Ensure the electrical safety of installations in recreational vehicles by requiring an electrical installation audit at point of sale and every 10 years (in line with gas tank testing), and:	Further consideration required.

No.	Recommendation	Government Response
	(a) consider extending this provision to domestic, commercial and recreational vessels that utilise solar panels and or generators as their primary source of electricity	
	(b) ensure regulatory oversight and proactive inspections are undertaken by the Regulator.	
49	Consider enhancing the Regulator's powers to obtain and provide information regarding electrical safety (Act s 122C), to better fulfill the Regulator's function to "provide advice and information on electrical safety to duty holders under this Act and to the community" (Act s 122(1)(c)).	Further consideration required.
50	Consider expanding the Commissioner's responsibilities to include the development and approval, in conjunction with the Electrical Licensing Committee, of an enhanced auditing scheme, licensing assessments, licensing renewal assessments and Continuing Professional Development (Act, s 71) to be administered by the Electrical Safety Office.	Further consideration required.
51	Consider enhancing the powers of the Commissioner for Electrical Safety to enable requesting the production of documents or to attend an interview, by extending existing powers in relation to electrical licensing committee matters (s 72 and s 88).	Further consideration required.
52	Consider aligning the Commissioner for Electrical Safety's powers to those set out in the Resources Safety and Health Queensland Act 2020 (s 58 and s 59).	Further consideration required.
53	Consider the Commissioner's oversight and enhancing the Commissioner's ability to fulfill responsibilities of the position through membership and chairing of all electrical safety committees (s 71; Part 8, Divisions 2A and 2B).	Further consideration required.
54	Consider enhancing the Electrical Licensing Committee (ELC) functions to include appropriate oversight of electrical contractor licence holders inclusive of Qualified Business Persons (QBP) and Qualified Technical Persons (QTP) by:	Further consideration required.
	(a) providing the ability to have an electrical contractor licence holder referred to the ELC whenever an electrical worker employed by the electrical contractor is referred under s 106; and	

No.	Recommendation	Government Response
	(b) providing the ability of the ELC to have the QBP and/or QTP on an electrical contractor licence referred to the ELC where an electrical worker employed by an electrical contractor is referred under s 106; and	Further consideration required.
	(c) providing the ability to have the QBP and/or QTP for a Person Conducting a Business or Undertaking (PCBU) to be able to be referred to the ELC where an electrical worker employed by the PCBU is referred to the ELC under a s 106.	Further consideration required.
55	Implement the inclusion of an additional member category of "training and education representatives" for the Electrical Licensing Committee to ensure the committee has adequate capacity in undertaking its recommended expanded responsibilities, including but not limited to review and development of a revised licensing renewal assessment (see Recommendation 35).	Further consideration required.
56	Remove the energy efficiency function of the Electrical Safety Board (Act, s 76(3)) and Electrical Equipment Committee (Act, s 94(2)), which is a holdover from pre-2002 functions exercised by the Electrical Safety Office that do not concern electrical safety.	Further consideration required.
57	In addition to recklessness, and in addition to any changes made as a result of the Government's implementation of the Boland review, consider creating a new offence of negligence to be implemented as a category 1 offence.	Further consideration required.
58	Consider introducing disciplinary provisions for electrical work licences no longer in force, as exists for electrical contractor licence holders (Act s 111), to ensure accountability of acts done while the licence was in force.	Further consideration required.
59	It is recommended to implement electrical licence inspectors. The function of the electrical licence inspector is to inspect electrical licences for the function of assessing compliance with electrical licensing requirements. An electrical licence inspector may not carry out inspections of electrical installation work or issues any orders. However, if the electrical licence inspector identified a possible breach of electrical safety regulations, they must report the matter to the Electrical Safety Office. An electrical licence inspector must be an employee of the Electrical Trades Union in Queensland and hold a current electrical worker's licence.	Further consideration required.
60	Consider implementing similar provisions from the Queensland Coal Mining Safety and Health Act 1999 (s 109 & s 118) for industry safety and health representatives. The union after a ballot	Further consideration required.

No.	Recommendation	Government Response
	of its members may appoint up to three industry safety and health representatives for a term of	
	up to four years. The role is conducted on a full-time basis and ensures an acceptable level of	
	electrical safety, reviews electrical safety procedures, takes action to 'make safe' in the event of	
	an electrically unsafe installation and assists in the onsite investigation of unsafe practices.	
61	Consider conducting a review of the financial contributions that support electrical safety in	Further consideration required.
	Queensland with a view to require proportionately determined financial contributions from all	
	relevant Government Owned Corporations and industry sectors including electrical contracting	
	and renewable generators, in addition to existing "electrical safety contributions" for distribution entities (Act, Part 14A, Division 1). This recommendation is to ensure these financial	
	contributions keep pace with the rapidly expanding volume of electricity market participants.	
62	Consider undertaking a review of licensing fees to ensure that the costs of compliance are	Active scoping and consideration by
02	taken into account in determining licence costs, in line with the fees and charges principles in	Government.
	consultation with Queensland Treasury.	
63	Consider clarifying and enhancing miscellaneous requirements and definitions related to	Further consideration required.
	licensing and training, including:	
	Under the Act, consider the following recommended amendments:	
	(a) replacing the definition of "relative" of a person, with the following list found in Queensland's	
	industrial relations framework:	
	(i) spouse; former spouse, de-facto spouse, former de-facto spouse; or	
	(ii) child, ex-nuptial child, step-child, adopted child, ex-foster child; or	
	(iii) parent, grandparent, grandchild, sister or brother of the person or spouse of the	
	person; and	
	(b) requiring a person conducting a business or undertaking to keep, in its register of licensed	Further consideration required.
	workers, the following details for workers presenting interstate licences: (i) licence jurisdiction,	
	ii) any conditions on the licence, and iii) the expiry date of licence.	
	Under the Regulations, consider the following recommended amendments; and	

No.	Recommendation	Government Response
	<ul> <li>c) clarifying the meaning of "recognised industry practice" for CPR training required in relation to electrical work (s 28); and</li> </ul>	Further consideration required.
	<ul> <li>(d) requiring licensed electrical contractors to inform the Electrical Safety Office of a QBP or QTP ceasing to work with the contractor:</li> <li>(i) within 72 hours for the QBP or QTP on that contractor's licence, and</li> <li>(ii) within 7 days for additional QTPs (ss 49-50); and</li> </ul>	Support in principle.
	(e) reviewing and instating contemporary levels of insurance cover for electrical contractor licences (s 51); and	Further consideration required.
	(f) removing the refundable component of fees for refused or withdrawn applications (ss 63, 236, 256 and Schedule 8).	Further consideration required.
64	Consider enhancing compliance with electrical safety laws by expanding the regulatory means to discover, prevent and sanction breaches, and to otherwise clarify compliance requirements, by: (a) making explicit that inspectors have the power to access residential premises for the purposes of examining and assess switchboards (Act, s 140); and	Further consideration required.
	<ul> <li>(b) introducing more effective, flexible, responsive sanctioning options, including by:</li> <li>(i) enabling inspectors to issue on the spot fines consistent with State Penalties Enforcement legislation:</li> <li>1. if licence conditions are not followed (Act ss 57-57AA), such as Persons Conducting a Business or Undertaking (PCBU) using unlicensed workers; and</li> <li>2. for noncompliance with an unsafe equipment notice (UEN) (Act s 148), should UENs be retained in the Act (cf. Recommendation 64(b)(viii)).</li> </ul>	Further consideration required.
	(ii) considering introducing a sliding scale of fine amounts, to rectify the current lack of proportionality in penalty categories.	Further consideration required.
	(iii) allowing for suspensions or conditions to be placed on licences in the case of unpaid fines	Further consideration required.

о.	Recommendation	Government Response
	(iv) allowing an avenue for the regulator to recover unpaid debt via Court order, including order as to costs	Further consideration required.
	(v) clarifying that licensed electrical workers can be penalised for "knowingly" connecting defective electrical equipment (Regulations Pt 3, s 27).	Further consideration required.
	(vi) introducing penalty provisions for the improper use of a licence card, replicating the substance of section 51 of the Queensland Building and Construction Commission Act 1991.	Further consideration required.
	(vii) enhancing compliance and clarity with electrical safety laws through the repeal of Division 3 Unsafe equipment notices (Act, s 148 Unsafe Equipment Notice), given the greater effectiveness of issuing Electrical Safety Protection Notices (ESPNs) under section 147; and	Further consideration required.
	<ul> <li>(c) clarifying and enhancing the ability of the Electrical Licensing Committee (ELC) to take disciplinary actions, including by:</li> <li>(i) clarifying that the ELC can defer licence suspensions (Act, ss 109(1)(b))</li> </ul>	Support in principle.
	(ii) enabling the ELC to enter into an electrical safety undertaking that promotes electrical safety awareness and engagement, including but not limited to Safety Leadership at Work (SLAW) (Act, s 109)	Further consideration required.
	(iii) increasing penalties in disciplinary matters for licence holders (Act ss 109(1)(e))	Further consideration required.
	(iv) enabling the ELC to require attendance of an electricity entity in disciplinary hearings concerning an employee of that electricity entity, if deemed necessary (Act, Part 9, Division 3)	Further consideration required.
	(v) enabling the ELC to require attendance of a PCBU in disciplinary hearings concerning an employee of that PCBU, if deemed necessary (Act, Part 9, Division 3)	Further consideration required.
	(vi) expanding the grounds for disciplining a licensed electrical worker to include failure to comply with a direction/notice (Act s 106) and a failure to rectify a defect as directed (Act s 112).	Further consideration required.
	(vii) consider implementing a definition of a "Influential Person" being a person who has control or has the ability to substantially influence a company's conduct. Further, consider enabling the ELC take disciplinary action against an influential person in disciplinary proceedings; and	Further consideration required.

No.	Recommendation	Government Response
	(d) empowering accredited auditors to require specific information from prescribed electricity entities, to fulfill duties as an accredited auditor (Act s130); and	Further consideration required.
	(e) removing the word 'just' from section 144(1)(b); and	Further consideration required.
	(f) removing section 141 and replacing it with section 171 of the Work Health and Safety Act 2011 for consistency; and	Support in principle.
	(g) removing "regulator" in section 186B(1)(a) and replacing it with "WHS Prosecutor", to provide consistency with section 232(1)(a) of the Work Health and Safety Act 2011; and	Support in principle.
	(h) replicating section 25 of the Work Health and Safety Act 2011, to provide consistency with the establishment of the WHS Prosecutor in the (Electrical Safety) Act; and	Support in principle.
	(i) removing section 32 of the Regulations and replacing it with previous provision as per footnote <sup>3</sup>	Further consideration required.
	<sup>3</sup> Electrical Safety Regulation 2002 (Qld) repealed. 24A Misrepresentations about lawful	
	authority to contract for the performance of electrical work (1) A person must not, in trade or	
	commerce, represent that someone who is not a licensed electrical contractor may lawfully	
	contract for the performance of electrical work the person may not otherwise perform under the	
	Act. Example of electrical work that may be performed under the Act by someone who is not a licensed electrical contractor— minor emergency repairs to make electrical equipment	
	electrically safe performed by a licensed electrical mechanic. Maximum penalty—40 penalty	
	units. (2) An employer must take all reasonable steps to ensure the employer's workers do not	
	contravene subsection (1). Maximum penalty—40 penalty units.	
65	Consider requiring prescribed electricity entities to remove the potential for conflict of interest	Further consideration required.
	when engaging an accredited auditor to undertake the annual audit of their safety management	•
	system, by following measures to be set by the Regulator (s 234; Part 14A, Div 1).	
66	Consider phasing in a requirement for safety switches on all sub-circuits in all domestic,	Further consideration required.
	commercial and industrial settings, both on and off-grid. In addition, propose that Government	
	work collaboratively to address potential cost impacts that may disproportionately affect	
	vulnerable consumers.	

No.	Recommendation	Government Response
67	Consider introducing a requirement for de-energisation prior to work near energised parts of an electrical installation, subject to necessary exemptions for energised work, such as testing for defects or faults in accordance with a risk assessment, safe work method and with appropriate Personal Protective Equipment (PPE).	Support in principle .
	(a) further consider the introduction of requiring specific PPE when this work is undertaken including the required standard for working near exposed live parts (in accordance with Energy Safe Victoria's Arc Flash Hazard Management fact sheet); and	Further consideration required.
	(b) consideration is also to be given to requiring the PPE to be maintained and calibrated and tested to ensure it has the required integrity as per Australian Standards and is fit for purpose for use; and	Further consideration required.
	(c) consider implementing in the Regulations minimum standards for specific technologies such as thermography and airborne ultrasound sensors to ensure the safety of persons conducting electrical safety inspections on electrical installations.	Further consideration required.
68	Consider mandating a requirement for de-energisation of domestic roof spaces prior to work in or via the roof space, and require a safe work method statement, a documented risk assessment that includes the appropriate PPE on commercial and industrial roof spaces if de- energisation is not reasonably practicable.	Support in principle.
69	Consider introducing a phased-in requirement for an electrical safety certificate to be issued by a licensed electrical worker, initially at the point of sale of a property and later every 5 years, confirming the property's electrical installation is safe and compliant with electrical safety standards and legislative requirements including, for example, safety switch requirements.	Further consideration required.
70	Consider a phased introduction of a requirement for a licensed electrical worker to perform an electrical safety inspection on all properties within five years of commencement of this requirement, and thereafter within five years of the last electrical safety inspection or receipt of an electrical safety certificate [see Recommendation 69, directly above], whichever is later.	Further consideration required.

No.	Recommendation	Government Response
	(a) it is further recommended for consideration that where an inspection identifies asbestos panels and boards within electrical switchboards, the homeowner must replace to meet current standards. It is suggested that homeowners have up to two years from the date of initial identification to rectify.	
71	Consider introducing a requirement for builders' application processes to include a certificate to be issued by the relevant electricity entities, confirming building plans will not adversely impact any adjoining electricity infrastructure prior to building work commencing. Further it is suggested consultation across agencies will be required to effectively implement this change.	Further consideration required.
72	Consider the introduction of record keeping by the wholesaler or retailer at the point of sale of prescribed electrical equipment, being equipment that must be installed by a licensed electrical worker. Prescribed electrical equipment would include specified fixed wired electrical accessories, components and electrical appliances. The purchaser's name and address or other contact information and the specific equipment purchased must be recorded. It is recommended these records should be made available to the Electrical Safety Office on request for the purposes of regulatory activities such as assisting with recalls and identifying unlicenced electrical work in the interest of electrical safety.	Further consideration required.
73	<ul><li>Consider clarifying electric lines regulations (Regulations, Part 5) to limit the occurrence of contact with electric lines and the integrity of electricity infrastructure, by considering:</li><li>(a) clarifying what is within the scope of a "service line" (s 76), noting the definition of overhead electric line (s 79(2))</li></ul>	Further consideration required.
	(b) clarifying requirements for demolition companies registering with electricity retailers to request line/meter removal	Further consideration required.
	(c) requiring PCBUs to keep structures outside clearance requirements (Schedule 4, s 69), including for PCBUs to ensure any builder or contractor it engages to construct a structure, to not do so within clearance requirements	Further consideration required.
	(d) requiring duty holders to carry out location activities for underground electric lines including by manual activities, sourcing services (where required) and "dial before you dig" prior to	Further consideration required.

No.	Recommendation	Government Response
	excavation work (i.e. underground work that is not of a superficial nature, e.g. gardening on private property), to prevent incidents of contact with underground electric lines (s 68). (i) It is further recommended to remove the reference to underground electric lines in the Regulation at s 68(1) and creating a third sub-section to mirror requirements in the Work Health and Safety Regulation 2011 s 304.	
	(e) requiring persons planning fires near and adjacent to electricity infrastructure within a specified distance of lines, to consult and cooperate with the relevant electricity entity for those lines	Further consideration required.
	(f) creating an offence to cause damage to electrical infrastructure/an entity's assets to cause, or risk, unsafe condition/network, including in relation to overhead or underground electric lines (Pt 5) and climbing poles (Pt 15, s 278)	Further consideration required.
	(g) reviewing the wording of the example of harvesters in the definition of "operating plant" (Regulations, Sch 9), to ensure the example is adapted to the functioning of modern grain harvesters, particularly those with attachments that do not move vertically or are retracted and therefore pose a lower risk to electric lines.	Further consideration required.
74	Consider clarifying and enhancing standards that apply to electrical installations (Regulations, Part 6), including by considering:	Support in principle.
	(a) removing the date (1 June 1992) to ensure safety switch requirements apply to outlets generally (ss 84-5)	
	(b) requiring licensed electrical workers to comply with applicable standards in addition to the Wiring Rules (s 70)	Further consideration required.
	(c) ensuring there is a legislative basis in the Act for regulations concerning work involving water equipment (s 72), and, if it is to be maintained, work involving electric motors (s 73)	Support in principle.
	(d) updating the examples of facilities that may be provided by a person in control (s 76)	Support in principle.
	(e) requiring a licensed electrical worker or a licensed electrical contractor, prior to undertaking electrical installation work in a domestic premise, to confirm the existence of or install an independent earth electrode (s 86)	Further consideration required.

No.	Recommendation	Government Response
	(f) strengthening requirements on persons in control to fix defect through the inclusion of "agents of an entity"	Further consideration required.
75	Consider clarifying and enhancing in-scope electrical equipment-related standards and sanctions (Act, Part 2A; Regulations Part 7).	Support in principle.
76	Consider enhancing the regulation of unsafe electrical equipment, including by requiring removal from sale, appropriate notifications are made, and relevant documentation kept (Regulations Parts 8), particularly consideration to be given to Requiring responsible suppliers to:	Further consideration required.
	(a) keep documents required by equipment safety rules (Regulations s 147-8); and	
	(b) advise clients not to sell items found to be unsafe, subject to a penalty.	Further consideration required.
	In respect of officers, the intent of this recommendation could be achieved by: (c) requiring officers to ensure a recall is conducted on items found to be unsafe, including in the context of liquidation, consistent with corporations' law. (Act, Part 2, Div 2B).	Further consideration required.
	In respect of retailers, the intent of this recommendation could be achieved by: (d) requiring retailers to cease selling unsafe items, subject to a penalty for continuing to knowingly sell unsafe items	Further consideration required.
	(e) empowering the regulator to direct that unsafe electrical equipment be removed from display and sale (Act, s 146ff.)	Further consideration required.
	(f) require warning signs both near and on products, and, through the development of communication material, assist retailers to display general DIY warning signs in relevant areas of stores or online environments, to help to ensure purchasers are competent to install the equipment.	Further consideration required.
	(g) ensure the jurisdiction of the Act extends to electrical equipment sold on online platforms in Queensland (Act, Part 2)	Further consideration required.
	(h) reviewing the use of the term "competent person" for consistency in Part 8 (Regulations ss 186, 194).	Support in principle.
	Further, to assist in regulating safe electrical equipment, consideration should be given to:	Further consideration required.

No.	Recommendation	Government Response
	(i) clarifying that the regulator is not obliged to issue certificates on equipment, allowing flexibility to engage private certifiers with regulator monitoring and oversight (ss 122, 154-9)	
	(j) a requirement for test and tag contactors and competent persons to be required to include contact information such as name and phone number on test and tags attached to electrical equipment enabling the Electrical Safety Office to identify contractors/businesses and carry out regulatory actions as needed	Further consideration required.
	(k) implement a requirement for test and tag contractors and competent persons to remove from service any equipment that has been deemed to be unsafe through the test and tag process. Further, where the individual holds an appropriate electrical licence, repair like for like such as cords and plug tops.	Further consideration required.
77	Consider amending the regulation of works of an electricity entity (Regulation, Part 9) to ensure the integrity of works considering contemporary development of practices and technology, including by considering: (a) expanding the meaning of trafficable area to include areas with agriculture (sections 207(1)(a) and 208(1)(a); Schedule 4).	Further consideration required.
	(b) requiring an electricity entity to periodically inspect and maintain assets/network infrastructure (s 215).	
78	<ul> <li>Consider enhancing and clarifying the regulation of electricity supply, including inspection and record keeping requirements, as well as the scope of private generating plant (Regulations, Part 10) to ensure it remains contemporary, including by considering:</li> <li>(a) implementing a requirement, for high voltage or hazardous area electrical installations, accredited auditor inspection and testing to be evidenced by providing a certificate of inspection and confirmation (with prescribed content stipulated in the Regulations) to the Regulator via electronic portal (Recommendation 45) (s 221(1)(b))</li> </ul>	Further consideration required.
	(b) clarifying that the requirement for accredited auditors to conduct an inspection following electrical installation work does not apply to 'like for like' changes of electrical equipment in the electrical installation	Support in principle.

No.	Recommendation	Government Response
	(c) ensuring renewables and off-grid storage are within the meaning of private generating plant, thereby requiring compliance with the Wiring Rules (s 224) and requirements for safe and stable parallel operation with the works of the electricity entity (s 225).	Further consideration required.
	(d) ensuring the effectiveness of duties to keep records of test results and the working behind them in the context of licensed contractors testing electrical work for safety (ss 226-230). Test results to be submitted to the Regulator through the reporting portal (Recommendation 45).	Further consideration required.
	(e) Consider adding disconnection requirements for disconnection of electrical installation to electricity source (s220)	Further consideration required.
79	Consider clarifying and enhancing the requirements for safety management systems (SMS) (Regulations, Part 11), including by considering:	Active scoping and consideration by Government
	(a) clarifying the requirements regarding both the contents of and need to supply the Regulator with annual audit plans, audit reports, corrective action plans, and risk management plans (s 234); and	
	(b) requiring prescribed electricity entities to provide risk management plans to the Regulator, in addition to maintaining a SMS (s 234(3c), (4a)).	
80	Consider clarifying one matter related to accredited auditors (Regulations, Part 12) by allowing for the appointment of temporary accredited auditors, for the duration of a specified period to audit accredited auditors (ss 235, 237; Act s 136A).	Further consideration required
81	Consider amending the Serious Electrical Incident and Dangerous Electrical Event notification and reporting requirements to ensure they remain contemporary and to clarify miscellaneous requirements (Regulations, Part 14), including by considering:	Further consideration required
	(a) requiring distribution entities to notify the Regulator of Serious Electrical Incidents and Dangerous Electrical Events even if they are not the distribution entity whose works are the subject of the incident, or that supplies electricity to the electrical equipment that is the subject of the incident (Regulations ss 264, 266(1)(b)); and	

No.	Recommendation	Government Response
	(b) clarifying that off-grid contexts are within the reporting required by distribution entities for electric shock (Regulations s 267); and	
	(c) requiring prescribed electricity entities to publish reports of incidents occurring in each calendar year, within three months of the end of the relevant year (Part 14, Schedule 6).	
82	Consider amending miscellaneous provisions in the Regulations to ensure safety is maintained in various contexts (Regulations, Part 15), including:	Further consideration required.
	(a) clarifying that the Act applies to greenfield petroleum plant sites not operating as petroleum plants (Regulations s 276; Act, s 6)	
	(b) expanding the ability of transmission entities to act in make safe circumstances, similar to the abilities of distribution entities (s 280 and ss 269, 271)	
	(c) requiring principal contractors to engage an electrical contractor to investigate and, where appropriate, issue and upload to the Electrical Safety Office portal electrical isolation certificates (Recommendation 45) for demolition and dismantling work providing sufficient information to identify:	
	<ul><li>(i) the precise area isolated; and</li><li>(ii) the method of isolation, including use of lockout and tag-out means and testing to prove de-</li></ul>	
	energisation, and (iii) any cabling or fittings removed and remaining.	
	<ul> <li>(d) requiring further electrical isolation certificates where there is an extension of the scope of demolition and dismantling work including uploading to the Electrical Safety Office portal (Recommendation 45).</li> </ul>	
	(e) Consider expanding electricity entity authorisation requirements for climbing poles, standard or other structure that is part of the works of an electrical entity to include working on poles, standard or other structures that are part of the works of an electricity entity (s 278).	

No.	Recommendation	Government Response
83	Consider correcting administrative matters in the Act and Regulation that have been identified in the course of the review, including:	Support in principle.
	In the Act: (a) removing the incorrect reference in Act s 32(3) to sub-section (1)(b) and replacing it with a reference to sub-section (2)(b)	
	(b) removing outdated reference to the department's website as "www.justice.qld.gov.au" at s 48K (7)	Actioned by the Department of Justice and Attorney-General.
	(c) including the Labour Hire Licensing Act 2017 to list of Acts enabling the Electrical Safety Office to share information with the Labour Hire Licensing Compliance Unit	Support in principle.
	(d) removing transitional provisions no longer considered necessary or effective, based on consultation with the Office of the Queensland Parliamentary Counsel (Parts 15-22).	Further consideration required.
	In the Regulations: (e) changing reference from "one month" to a specific number of days, namely "28 day" in ss 49-50	Support in principle.
	(f) removing incorrect reference to Schedule 9, paragraph (c) in at s 279	Support in principle.
	(g) removing transitional provisions no longer considered necessary or effective, based on consultation with the Office of the Queensland Parliamentary Counsel (Part 16).	Further consideration required.