



ENGINEERS
AUSTRALIA

Actions for the next QLD Government

Engineers Australia supports public policies which promote local jobs and investment, future prosperity of the Queensland population, consumer safety and confidence and innovation. Engineers Australia, established in 1919 as the peak body for the engineering profession in Australia, is constituted by a Royal Charter to advance the science and practice of engineering for the benefit of the community.

Engineers Australia commends the following actions to all parties for the QLD state election.

The engineering profession is committed to creating solutions to make the world a better place. A public policy framework is needed that:

- *Draws on engineers to solve policy challenges*
- *Reflects the nexus between educating people now for the workforce of the future*
- *Understands the value of domestic skills capability within a global marketplace*
- *Promotes and enables innovation in everything we do, to drive economic growth and improve standards of living*

Election Priorities

1. CHIEF ENGINEER

Queensland needs a Chief Engineer. Appointed by the Premier, they will:

- provide independent advice on engineering intensive policies and projects
- provide advice on policies and programs that foster innovation
- assist government to develop industry policies and programs that will drive economic growth and boost productivity

2. REGISTRATION OF ALL ENGINEERS

Queensland needs the whole engineering team to be registered. Comprehensive registration that includes Engineering Associates and Technologists will:

- provide project efficiencies by allowing each member of the team to practice independently in their area of competence
- reduce risk, by providing a standard that the public and government can use to check that an engineer, technologist or associate has the qualifications and experience to practice

3. INFRASTRUCTURE

Queensland needs integrated long-term infrastructure planning that:

- plans beyond an election cycle – minimum of 15 years
- is integrated between agencies
- feeds into Infrastructure Australia
- explores alternate funding arrangements
- successfully integrates infrastructure planning, funding and community ownership
- recognises the importance of infrastructure for regional Queensland

4. WATER SECURITY

Successful water management increases our resilience to drought and floods, protects our economic prosperity and social wellbeing and mitigates the real risks to human life. Queensland must:

- improve water monitoring and data access
- make water security a priority
- allocate responsibility for floodplain management
- improve public understanding of the risk of extreme events
- build engineering intelligence in government departments
- simplify a process to implement emerging technologies



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5. ENERGY

Queensland needs to drive economic growth and develop resilience and sustainability through energy policy. Energy policy should be developed with consideration to:

- adopting a positive approach to managing climate change while maintaining energy security and affordability
- committing to a national solution for a transition in Australia's electricity generation and storage, with a focus on consumer and business affordability
- ensuring availability of energy at a competitive price.
- addressing the role of transport energy consumption by preparing Queensland infrastructure and energy networks for electric and autonomous vehicles
- the role of engineering solutions to the state's energy transition plans
- cooperating with all Australian Governments on implementation of a national response to the Independent Review into the Future Security of the National Electricity Market recommendations, especially the need for more engineers in the governing bodies

6. STEM EDUCATION

Queensland needs more engineers who can turn ideas into products and services with social, economic and environmental value through:

- supporting greater participation in STEM (science, technology, engineering, mathematics) subjects in Queensland schools
- investing in more specialist teachers of maths and science
- encouraging more young women to participate in school-level advanced and intermediate maths, physics and chemistry
- fostering close links between schools, universities and industry for higher STEM participation

The Institution of Engineers Australia (Engineers Australia) is the peak body of the engineering profession. We are a member-based professional association with over 100,000 individual members.

Established in 1919, Engineers Australia is a not-for-profit organisation, constituted by Royal Charter to advance the science and practice of engineering for the benefit of the community.