

Electricity Network Safety Management System (NSW and ACT)

TransGrid is committed to delivering a safe and reliable network for the benefit of its stakeholders, including consumers, contractors and the public.

We achieve this through implementing an Electricity Safety Management Scheme (ESMS) that complies with the requirements of *AS5577 Electricity Network Safety Management Systems*.

AS5577 outlines the specific risk management activities TransGrid must undertake to provide this safe network. Compliance with this is guided by the requirements of the:

- > *Electricity Supply (Safety and Network Management) Regulation 2014 (NSW)*
- > *Utilities (Technical Regulation) Act 2014 Technical Code*.

This fact sheet provides information on how TransGrid has implemented this requirement.

Objective of the ENSMS

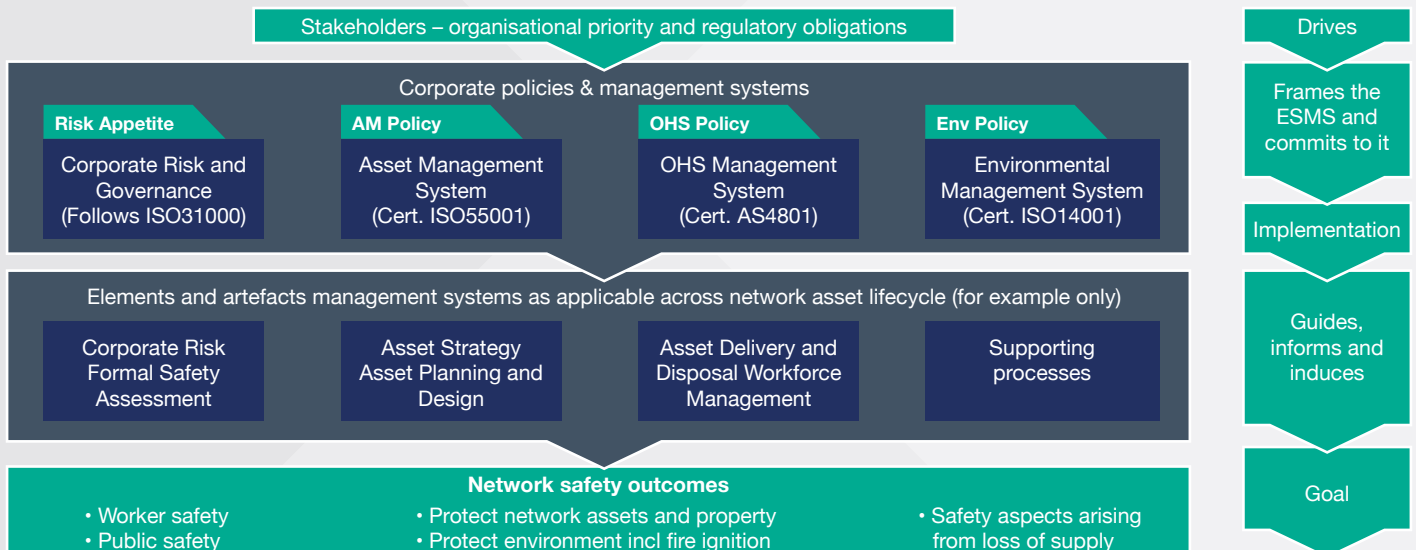
The ENSMS requires TransGrid to ensure:

- > the safety of the public, and persons near or working on electricity transmission network assets
- > the protection of property and network assets
- > safety aspects arising from the protection of the environment, including protection from ignition of fires by network assets
- > safety aspects arising from the loss of electricity supply.

We achieve this by complying with the requirements of AS5577 that state: *“Hazards associated with the design, construction, commissioning, operation, maintenance and decommissioning of electrical networks are identified, recorded, assessed and managed by eliminating safety risks so far as is reasonably practicable, and if it is not reasonably practicable to do so, by reducing those risks to as low as reasonably practicable.”*

Implementation at TransGrid

Our Health and Safety (OHS), Environment (Env), and Asset Management (AM) Policies guide a systematic and robust approach to the consideration of safety across the planning, design, construction, commissioning, operation, maintenance and decommissioning of the electricity transmission network assets, and demonstrate our commitment towards electricity network safety.

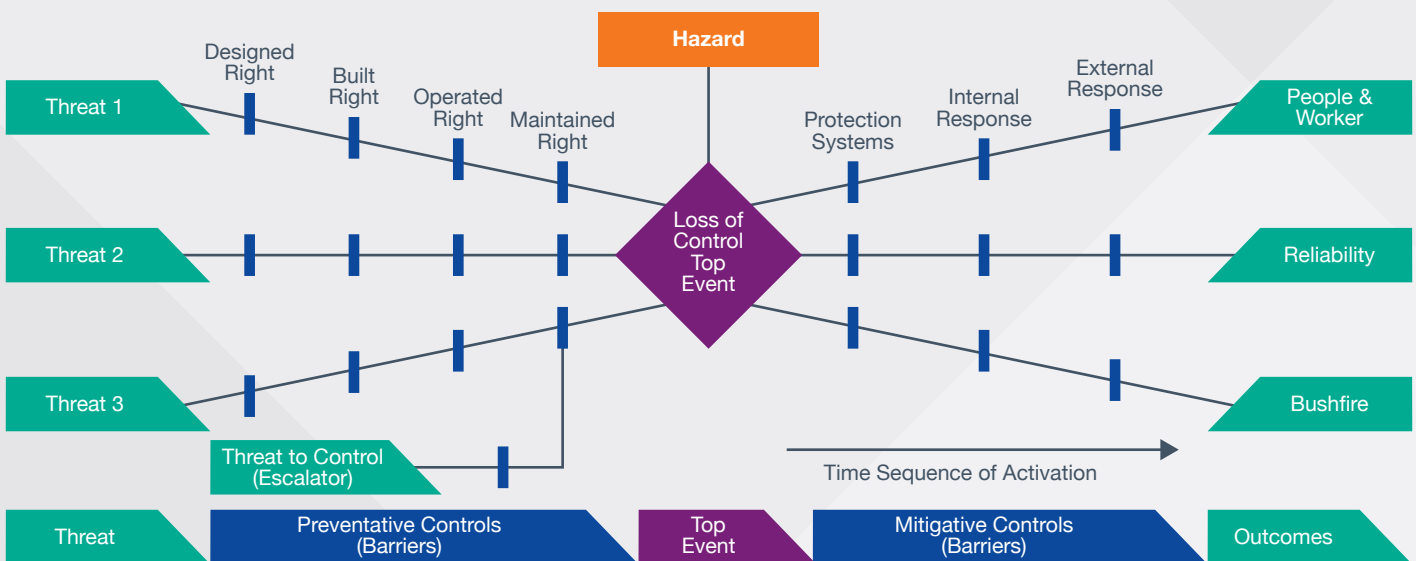


The figure overleaf shows the implementation of TransGrid's ENSMS. This demonstrates that the ENSMS consolidates core management systems to deliver a safe and reliable transmission network to the consumer, industry and the environment.

TransGrid has developed five Formal Safety Assessments (FSAs) supporting the ENSMS that assess risk and guide the management of this throughout the business. These are:

- > **Bushfire Formal Safety Assessment** – outlining how TransGrid assesses and manages the bushfire risk emanating from TransGrid's network, operations and maintenance
- > **Public Safety Formal Safety Assessment** – outlining how TransGrid assesses and manages the public safety risk emanating from TransGrid's network, intentional or unintentional public assess, and from TransGrid's construction, operations and maintenance activities
- > **Worker Safety Formal Safety Assessment** – outlining how TransGrid assesses and manages the risk to persons including workers and contracted services working on the network
- > **Reliability Formal Safety Assessment** – outlining how TransGrid assesses and manages the network reliability risk related to safety outcomes of network failures
- > **Environment and Property Formal Safety Assessment** – outlining how TransGrid assesses property and environment risk (excluding bushfire).

These FSAs identify the controls required to ensure that network safety related risk is managed as low as reasonably practicable in accordance with electrical and worker safety regulations. TransGrid utilises the bow-tie method for this analysis where preventive and mitigative controls are identified that either prevent loss of control of a hazard or, if lost, mitigate the consequences.



The controls identified are implemented through processes and procedures that make up each of TransGrid's Asset, Health and Safety, and Environment Management Systems.

Maintaining a Compliant System

TransGrid ensures the ongoing compliance to its obligations through regular management review of key performance indicators and external reviews and audits.

For further details on TransGrid's Electricity Network Safety Management, please email community@transgrid.com.au.

Contact Details

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Our business hours are 8:30am – 5:00pm