



Department of
**Energy and Economic
Diversification**

Appendix H – Summary of FESO 2027 stakeholder engagement and feedback to date

September 2026



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1. Stakeholder engagement and feedback to date

1.1. Engagement undertaken

Stakeholder engagement forms an important part of the development of FESO 2027. Engagement to date has included targeted discussions with major electricity users and other stakeholders, industry and government forums, and written feedback on the proposed scenario approach.

This appendix provides a high-level summary of that engagement and the principal themes raised. It identifies the issues stakeholders have raised and shows how those issues relate to the draft MISA and the continuing FESO work program.

Table 1.1: Engagement undertaken

Engagement activity	Stakeholders / purpose	Status
Pre-Launch	Early engagement with government, industry and major electricity users to identify priority issues, opportunities and risks for consideration in FESO 2027.	43 activities completed, a range of 1:1 and targeted group meetings, with feedback informing the scope, scenarios and assumptions for FESO 2027.
Western Trade Coast	Separate work program examining potential industrial development within the Western Trade Coast, including future energy requirements, electrification opportunities and infrastructure needs.	Engagement with over 30 proponents, government agencies and infrastructure providers informed major load assumptions and demand outlooks considered in FESO 2027.
Major load engagement	Targeted engagement with existing and prospective major electricity users to better understand potential load growth, timing, location, operating characteristics, flexibility and electricity supply arrangements.	20 meetings held with industry stakeholders including representatives from the mining and resource, energy, government and consumer advocacy sectors.
Large load/Mid West engagement	Engagement with industry, government and network stakeholders to explore potential colocation of large loads and renewables (in place of a "green export" scenario). Mid West potential location to test implications for	Large load/Mid West Forum held on 21 August 2026 with 32 representatives from industry, government and network organisations. Feedback sought on the potential use of the Mid West as a case study on the colocation of renewable energy and large loads

	generation and transmission requirements of large loads and the impact of colocation.	(eg. green iron and data centres) in a single location, and a conceptual consideration of how transmission development could occur in partnership with industry over time.
Industry assumptions engagement	Industry discussion of key assumptions and inputs relevant to FESO scenarios and modelling.	Industry Assumptions Forum held on 4 August 2026 with 16 participants. Discussions focused on scenarios, demand forecasts, transmission development and key modelling assumptions.
Government Reference Group	Engagement with relevant government agencies on policy, economic development, infrastructure and other assumptions affecting the outlook.	Government Reference Group meeting held on 5 August 2026 with 6 representatives from relevant government agencies. Discussions focused on policy settings, economic development, demand forecasts and emissions pathways.
Industry and Stakeholder Reference Group	Broader industry and stakeholder engagement on the FESO approach, assumptions and matters of interest to market participants and investors.	Industry and Stakeholder Reference Group meeting held on 11 August 2026 with approximately 9 participants. Discussions focused on demand growth, DER, decarbonisation pathways and demand-side participation.
Written feedback and submissions	Written comments received following publication of FESO material, including the Approach to Determining Scenarios.	Nine (9) submissions were received from a range of industry and consumer stakeholders.

1.2. Key feedback themes

The engagement undertaken to date has raised a range of issues relevant to the development and interpretation of the FESO. The principal themes are summarised below.

Table 1.2: Engagement themes

Feedback theme	Matters raised by stakeholders	How the issue is addressed in the draft MISA
Major electricity loads	Uncertainty around the size, timing and location of major new loads, including data centres, hydrogen and other energy-intensive industries, and the extent to which these loads may rely on the SWIS or co-located generation.	Major loads are represented explicitly in the scenario assumptions. Their size, timing, location and supply arrangements are also identified as potential areas for sensitivity analysis and case studies. A case study considering benefits of colocation and concepts for transmission development,

		including a potential staged approach and partnership models.
Demand flexibility	The potential for new and existing industrial customers to change electricity consumption in response to system or market conditions.	Different levels of industrial demand flexibility are represented across the scenarios. Industrial flexibility is also identified as a potential sensitivity.
Distributed energy resources	The future uptake and coordination of rooftop solar, batteries, electric vehicles, virtual power plants and other customer resources, including the distinction between coordinated and uncoordinated behaviour.	DER uptake and coordination are represented within the demand and distribution modelling. Different levels of coordinated (and uncoordinated) DER participation are identified as potential areas for sensitivity analysis.
Gas availability and fuel costs	The availability and cost of natural gas, future reliance on gas-powered generation and the implications of potential gas supply constraints.	Gas supply and price assumptions are included in the modelling approach. Gas availability and fuel costs are identified as potential sensitivity areas.
Infrastructure delivery	Constraints affecting the timing and cost of new generation, storage and network development, including planning, approvals, workforce and supply-chain pressures.	Infrastructure delivery constraints are represented within the scenario framework and are particularly relevant to the Constrained scenario. Delays to major infrastructure are also identified as a potential sensitivity.
Reliability and challenging operating conditions	The need to test the future system during periods of high demand, low renewable generation and other challenging conditions.	Reliability and operational performance are tested through the dispatch and detailed power system analysis. Challenging operating conditions are also identified as potential areas for sensitivity analysis.
Generation retirement timing	Uncertainty around the timing of generation retirements and the effect that alternative retirement assumptions could have on investment requirements.	Current modelling uses the facility retirement assumptions described in the MISA.
Climate, weather and water availability	Potential effects of extended low renewable output, changing weather conditions and constraints on water availability for energy and industrial development.	Weather variability is addressed through the synthetic weather year methodology.
Approvals, land and social licence	The potential effect of planning, environmental, heritage, land access and stakeholder agreement requirements on infrastructure delivery.	Infrastructure delivery assumptions recognise planning, approvals, land availability and related constraints.
Regional growth and development	Regional population growth forecasts and the implications for future electricity demand and infrastructure development.	Population growth assumptions are reflected in the demand forecasting methodology and informed by available government projections.

Scenarios	Consider additional scenarios or case studies to test ambitious decarbonisation as well as constrained decarbonisation with high demand.	The scope of case studies and sensitivities are under consideration.
Region-specific aspirations	For instance, future transmission development in the Mid-West north of Three Springs, including corridor planning, social licence considerations and opportunities to support renewable energy and industrial growth.	A case study is being considered to explore regional development opportunities from large loads and associated transmission requirements.

1.3. Continuing engagement

The public consultation period for the draft MISA provides the opportunity for stakeholders to comment on the proposed methodology, inputs, scenarios and assumptions before the document is finalised.

Feedback received through consultation on the draft MISA will be reviewed as the FESO modelling progresses. Where feedback identifies material new information, an important omission or an assumption requiring further examination, this may be considered through refinement of modelling inputs, sensitivity analysis, case studies or further explanation in the final MISA.