

Themes	Topics	Subtopics
Theme 1: People, Society, and Institutions Bringing together a diverse array of people: society, people (leaders, industries, governments, citizens, households, consumers and researchers) to build Australia's new energy sector under an energy justice lens.	1.1. Institutional arrangements.	1.1.1. Government roles across sectoral and consumer issues 1.1.2. Role of Research 1.1.3. Role of existing and emerging Industries 1.1.4. NGOs and community organisations
	1.2. Policy and regulation	1.2.1. Climate Policy Design and ICT Policy Transformation 1.2.2. Just Transitions Policy 1.2.3. Market Design and Monopoly regulation 1.2.4. EV's, Transport and Energy Sector Convergence
	1.3. People and Society	1.3.1. Energy hardship and social inclusion 1.3.2. Participation in institutional arrangements, regulators and markets 1.3.3. Household and community scale demand management and consumer energy resources 1.3.4. Communication and community engagement
Theme 2: Technology and Energy Systems Revolutionary benefits of the research and development are happening in the energy sector. Let's explore what we have achieved to date and showcase successful energy systems, technologies, their integration and the trajectories for future developments. [major shift from centralized to decentralised]	2.1. Technologies	2.1.1. Generation, Storage and Energy Dynamics 2.1.2. Power conversion, and management and Grid dynamics 2.1.3. AI, Algorithms, Human Centric Computing and cyber physical security 2.1.4. Energy Management Tech, Sensors and IoT
	2.2. Technology Integration	2.2.1. Centralised and Distributed Energy 2.2.2. Smart network control and microgrids control 2.2.3. DSO design, co-optimised system operation & planning 2.2.4. Value Stacking (e.g. with inertia markets etc.)
	2.3. Multi-systems dynamics	2.3.1. Technology and market interactions for resiliency 2.3.2. Electricity, Gas, and Hydrogen grids 2.3.3. Energy Efficiency and Demand Management 2.3.4. Food - water - Energy Nexus
Theme 3: Transition Pathways The shift to a net-zero emission energy system will require large-scale innovation and effort to make an impact at many levels (economic, health, social, environmental)? A 'business as usual' trajectory is not possible anymore. Identifying the window of opportunity to drive and facilitate the way to a just and green energy transition will need a common vision from governments, regulators, researchers, industry, NGOs and communities.	3.1. Transition Pathways	3.1.1. Consumer Centric Transition Pathways 3.1.2. Interdisciplinary research pathway, Skills and Capabilities/ capacities 3.1.3. Just transitions and energy access 3.1.4. Trust, social equity, and institutional frameworks
	3.2. Nationally Transformative Economic Opportunities	3.2.1. Technology and know-how exports 3.2.2. Future fuels and their exports 3.2.3. Critical Minerals, sustainable mining, and value add 3.2.4. Supergrids and Hydrogen/Ammonia Export infrastructure

	3.3. Whole economy – whole society planning	3.3.1. Energy workforce transformation and development 3.3.2. Cities and the Energy Transition 3.3.3. State and federal and local government cooperation 3.3.4. Unified national infrastructure policy (Combining Energy, Transport Systems and others)
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