

**POWER ENGINEERING COMPETENCY FRAMEWORK FOR POWER ENGINEERING PROFESSIONALS IN PUBLIC SERVICE
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Policy Management and Governance					
TSC Title	Policy and Regulations Framework Development for Technology Advancement					
TSC Description	Drive the development and review of policy and regulations framework for emerging technologies for power systems in collaboration with public and private sector organisations					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>
				Analyse emerging technologies for power systems to support development of the policy and regulations framework for power technology advancement	Participate in the development and review of policy and regulations framework for power technology advancement	Engage stakeholders and government officials to develop, review and update the policy and regulations framework for power technology advancement
Knowledge				<ul style="list-style-type: none"> Existing legislation, regulations and policies in the power sector Power sector codes of practice and performance standards Local and international technological, political and regulatory issues Trends, practices, new developments and emerging needs in the power sector Existing decarbonisation, decentralisation and digitalisation (3D) initiatives Methods for conducting internal and external environmental scans to keep abreast of latest developments, changes and initiatives in the ministry and power sector Range of research methods and sources of credible information 	<ul style="list-style-type: none"> Local and international legislation, political framework and policies in the power sector Legal and regulatory requirements of the power sector Whole-of-government principles and processes Relevant government initiatives, policies and priorities Pro-3D (decarbonisation, decentralisation and digitalisation) policies and practices Current and future technology needs of the power sector Methods for policy and regulatory analysis Relevant stakeholders in policy formulation Networking techniques for policy and regulatory framework development Stakeholder engagement procedures 	<ul style="list-style-type: none"> Local and international legislation, political framework and policies in the power sector Legal and regulatory requirements of the power sector Technology trend analysis strategies Implications of regional and global changes on the power sector in Singapore Policy and regulations frameworks for power sector in leading global power hubs Government initiatives, policies and priorities within the power sector Pro-3D (decarbonisation, decentralisation and digitalisation) policies and practices Relevant government policy development forums and processes

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				<ul style="list-style-type: none"> • Methods to conduct literature reviews • Data or information management system requirements • Relevant stakeholders in policy formulation 		<ul style="list-style-type: none"> • Tools and techniques for influencing policymakers and power sector stakeholders to • Techniques for advocating the benefits of policies to policymakers and sector leaders
Abilities				<ul style="list-style-type: none"> • Identify emerging technology trends in the power sector • Describe existing legislation, political framework and policies • Examine the broader technological, political, socioeconomic environment to develop and prioritise policy and regulations • Evaluate the integrity and comparability of data sources by interpreting information gathered from a variety of sources for the current policy agendas • Conduct literature reviews • Analyse relevant subject matter issues affecting stakeholders in the power sector • Conduct discussions with stakeholders to better understand policy and regulatory implications 	<ul style="list-style-type: none"> • Identify sector-specific electrical and power technologies for policy formulation • Identify current and future technology needs of the power sector • Assess existing decarbonisation, decentralisation and digitalisation policies and practices • Review submissions on literature reviews and identify applications for policy programmes • Inform direction of policy development by examining policies in the context of whole-of-government priorities and policy agendas • Facilitate the review and formulation of policy and regulatory proposals for new technologies • Apply relevant knowledge about the technological, political, socioeconomic environment • Ensure appropriate research and data sets are available to inform policy development 	<ul style="list-style-type: none"> • Drive collection and analysis of data, and environmental scanning to inform policy development • Interpret information for current and future policy agendas • Review global technology trends and macroeconomic developments to inform policy development • Review relevance of existing policies and regulations • Lead the evaluation of information to identify breaches and inconsistencies in policies and regulation • Identify policy and regulatory requirements for the power sector • Establish policy and regulatory framework to meet the current and future technology needs of the power sector • Formulate pro-3D (decarbonisation, decentralisation and digitalisation) policies and practices

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					<ul style="list-style-type: none"> • Communicate policy and regulatory gaps to the right platforms for future development • Engage and gather information from relevant stakeholders 	<ul style="list-style-type: none"> • Achieve strategic alignment through assessment of cross-agency, whole-of-government policy agenda, developments and influences • Shape government policies to support the strategic direction of the power sector
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