<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Energy Management Operations</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Electricity Network Performance Monitoring Management</td>
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<tr>
<td>TSC Description</td>
<td>Manage electricity network performance monitoring to facilitate renewal or disposal planning of network assets</td>
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### TSC Proficiency Description

<table>
<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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<tbody>
<tr>
<td></td>
<td>EPW-EMO-2006-1.1</td>
<td>EPW-EMO-3006-1.1</td>
<td>EPW-EMO-4006-1.1</td>
<td>EPW-EMO-5006-1.1</td>
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<tr>
<td>Apply network performance monitoring procedures and document key performance indicators to facilitate asset management</td>
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<td>Analyse network performance indicators and recommend the prioritisation of network assets for renewal or disposal planning</td>
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<tr>
<td>Develop network performance improvement measures and advise on the prioritisation of network assets for renewal or disposal planning</td>
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<td>Drive asset optimisation for performance and effectiveness with minimum risks, integrating new technologies to enhance performance monitoring</td>
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### Knowledge

- Relevant standards and Codes of Practice on network assets and operations and maintenance
- Basic performance monitoring regime of electricity network systems
- Basic key performance indicator data of electricity network systems
- Types of network operation and maintenance schemes, and incidents
- Principles and techniques of condition assessments

- Relevant standards and Codes of Practice on network assets and operations and maintenance
- Performance monitoring regime of electricity network systems
- Key performance indicators of electricity network systems
- Trend analysis
- Failure rate analysis
- Principles and techniques of condition assessments
- Types of network operation and maintenance schemes, and incidents

- Relevant standards and Codes of Practice on network assets and operations and maintenance
- Systems Engineering
- Performance monitoring and control
- Principles of predictive maintenance
- Principles and techniques of condition monitoring
- Asset health and risk assessment methodologies
- Asset remnant life assessment standards and methods
- Emerging technologies and innovations on electricity network asset management
- Asset lifecycle management strategies
- Optimisation of network asset performance
- Asset health and risk assessment methodologies
- Systems engineering
- Asset remnant life assessment standards and methods

### Abilities

- Conduct network performance monitoring and maintain database of key performance indicators
- Maintain database of network asset operations, maintenance and incidents
- Collate statistics and information for performance reports
- Implement network performance monitoring based on key performance indicators
- Review and audit database of network asset key performance indicators to ensure timeliness and accuracy of entries
- Prepare performance reports based on

- Review processes and key performance indicators for network performance monitoring
- Direct and advise team on complex performance and failure analysis
- Review and vet performance reports and recommend performance improvement measures
- Lead the team in network performance monitoring
- Develop new operation and maintenance plans and processes for network assets
- Identify scope of asset replacement and/or disposal strategies, methodologies and processes

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<table>
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<tr>
<th>Role</th>
<th>Responsibilities</th>
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| Technical Advisor | • Provide technical advice and recommend the renewal or disposal planning of network assets  
• Carry out analyses, including trend analysis, of key performance indices, records of asset operations, maintenance and incidents, and failure rates of assets of same type  
• Scrutinise and endorse recommendation of priority in renewal or disposal planning of network assets  
• Take charge of database of key performance indicators for network assets |
| | • Drive asset optimisation for performance and effectiveness with minimum risks  
• Integrate new technologies to enhance performance monitoring and predictive maintenance of assets  
• Submit renewal and/or disposal plans to senior management |