

Reimagining Malaysian Electricity Supply Industry (MESI 2.0)



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Ministry of Science, Technology & Innovation (MOSTI)

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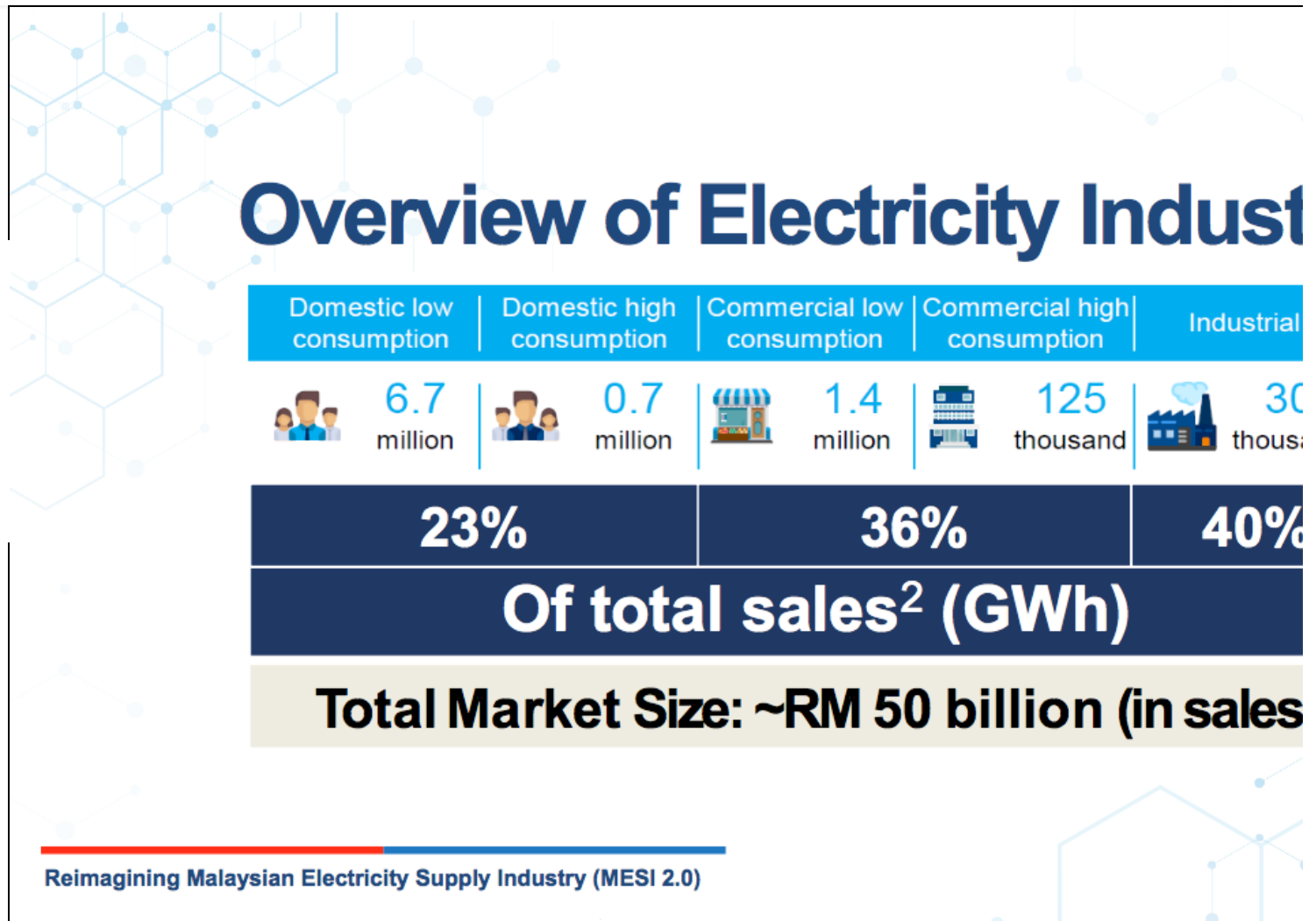
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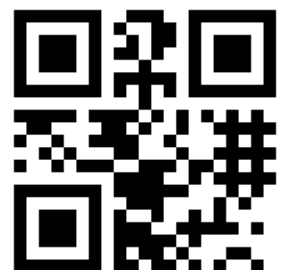
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MESI 1.0

Sound Fundamentals	Current Challenges
<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <h3 style="margin: 0;">Fuel</h3> <ul style="list-style-type: none"> ▪ Secure supply of coal and gas </div> </div>	<ul style="list-style-type: none"> ▪ Lack of incentive to procure lower cost due to pass-through nature; hence no p...
<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <h3 style="margin: 0;">Generation</h3> <ul style="list-style-type: none"> ▪ Low risk-investment, attractive to private investors ▪ Strong counterparty </div> </div>	<ul style="list-style-type: none"> ▪ Higher base-tariff due to surplus capacity, optimal reserve margin ▪ PPAs framework outdated; risk-free for p... ▪ Lack of renewable energy
<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <h3 style="margin: 0;">Grid</h3> <ul style="list-style-type: none"> ▪ Reliable and secure Grid </div> </div>	<ul style="list-style-type: none"> ▪ Incentives-based-regulation (IBR) result efficiency in CAPEX spending ▪ Ownership of Single Buyer and System makes it bias to (or perceived as) TNB c...
<div style="display: flex; align-items: center; margin-bottom: 10px;"> <div> <h3 style="margin: 0;">Retail</h3> <ul style="list-style-type: none"> ▪ Regionally competitive prices ▪ Lowest domestic tariff in SE Asia ▪ Malaysia ranked 4th in ease of 'Getting Electricity'² </div> </div>	<ul style="list-style-type: none"> ▪ Consumers have no options in selectin... ▪ Commercial and Industry tariffs are not a... ▪ Pricing mechanism is non-cost reflective inefficient use

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Source:

1. JPPPET 2018
2. Doing Business 2019, Training for Reform...

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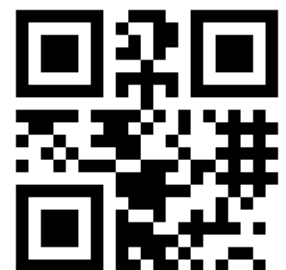
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Future Challenges

3 Emerging Technologies Disrupting The Industry



Electrification

New technologies resulted increase in demand of electricity. We have early to ensure this demand is met.

Key technologies: Electric vehicles, smart charging, appliances, head



Digitalisation

Allowing better control and connectivity for consumers. Also enables c innovative energy products.

Key technologies: Smart meters/ Smart grid, automation systems, In Things and Industry Revolution 4.0



Decentralisation

Empowering consumers to actively participate in electricity supply ind

Key technologies: Energy Efficiency, Solar PV, Distributed Storage, Microgrids, Demand Response, Peer-to-Peer

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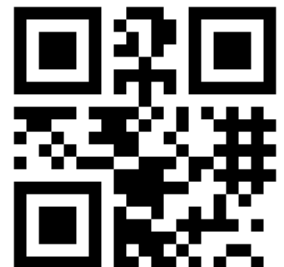
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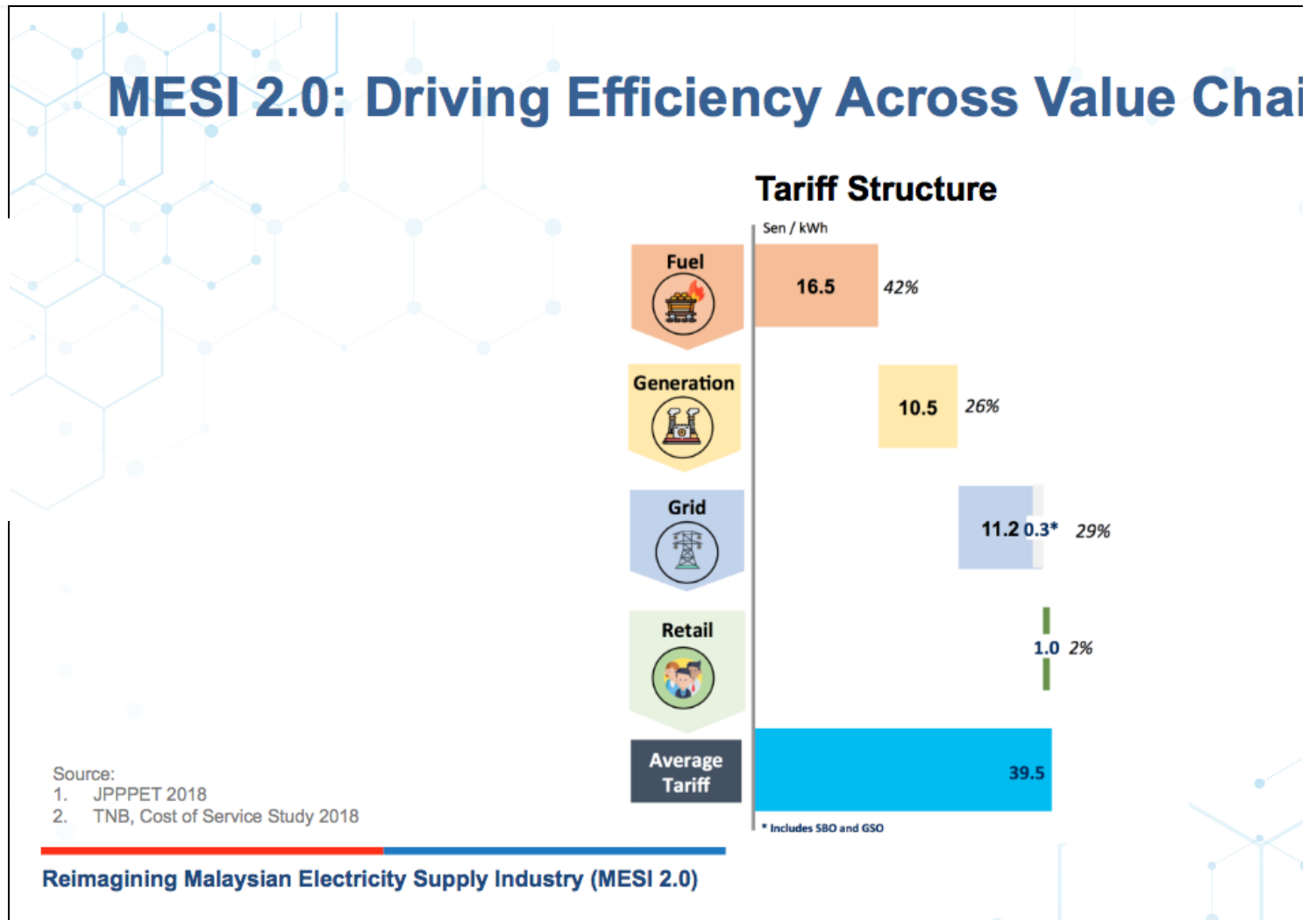
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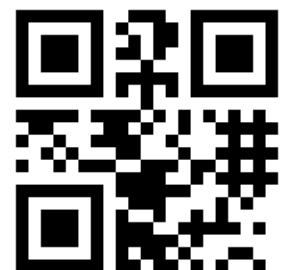
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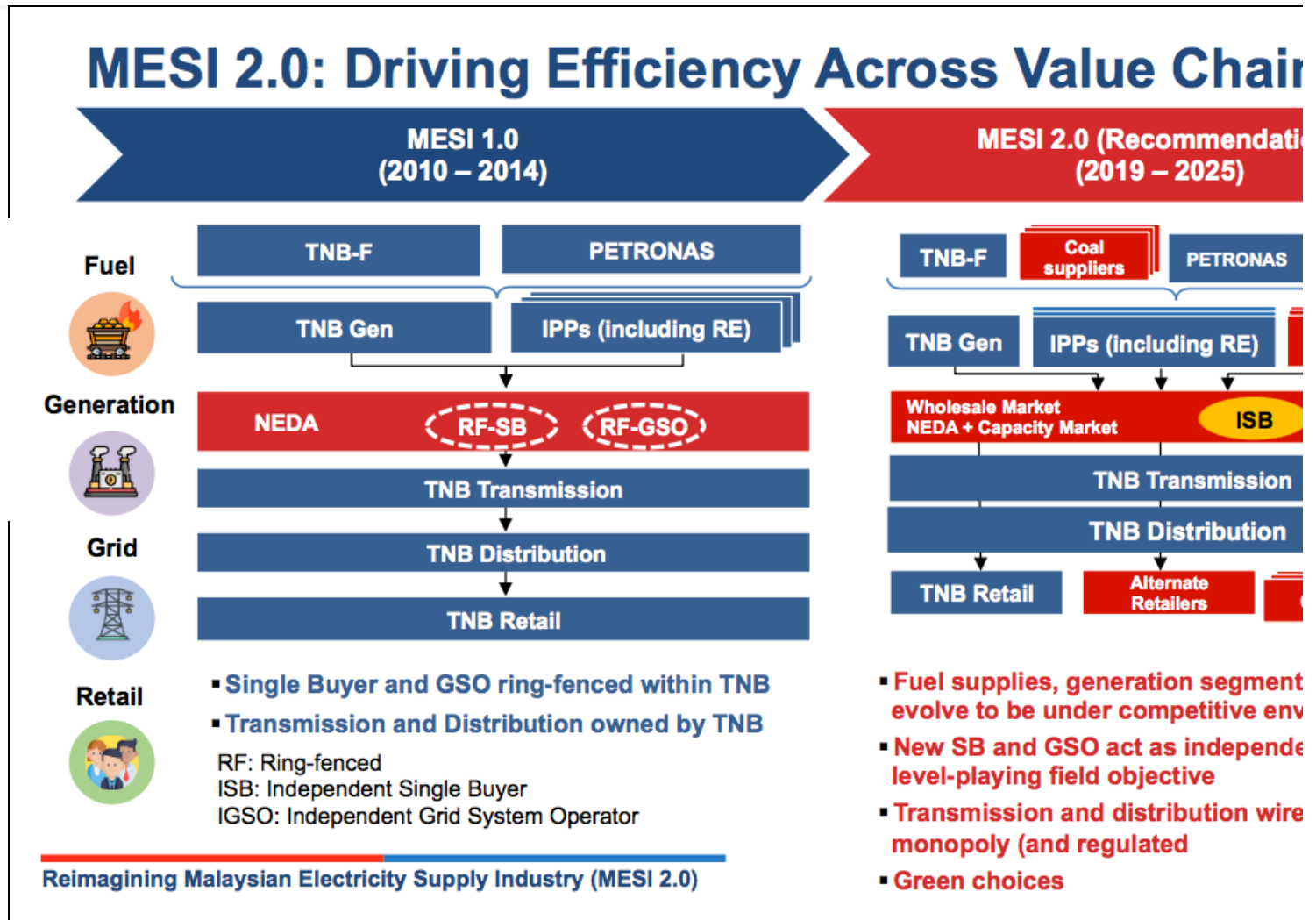
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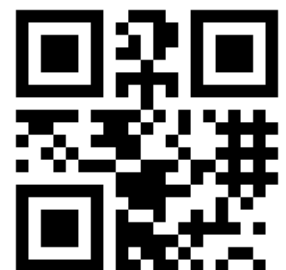
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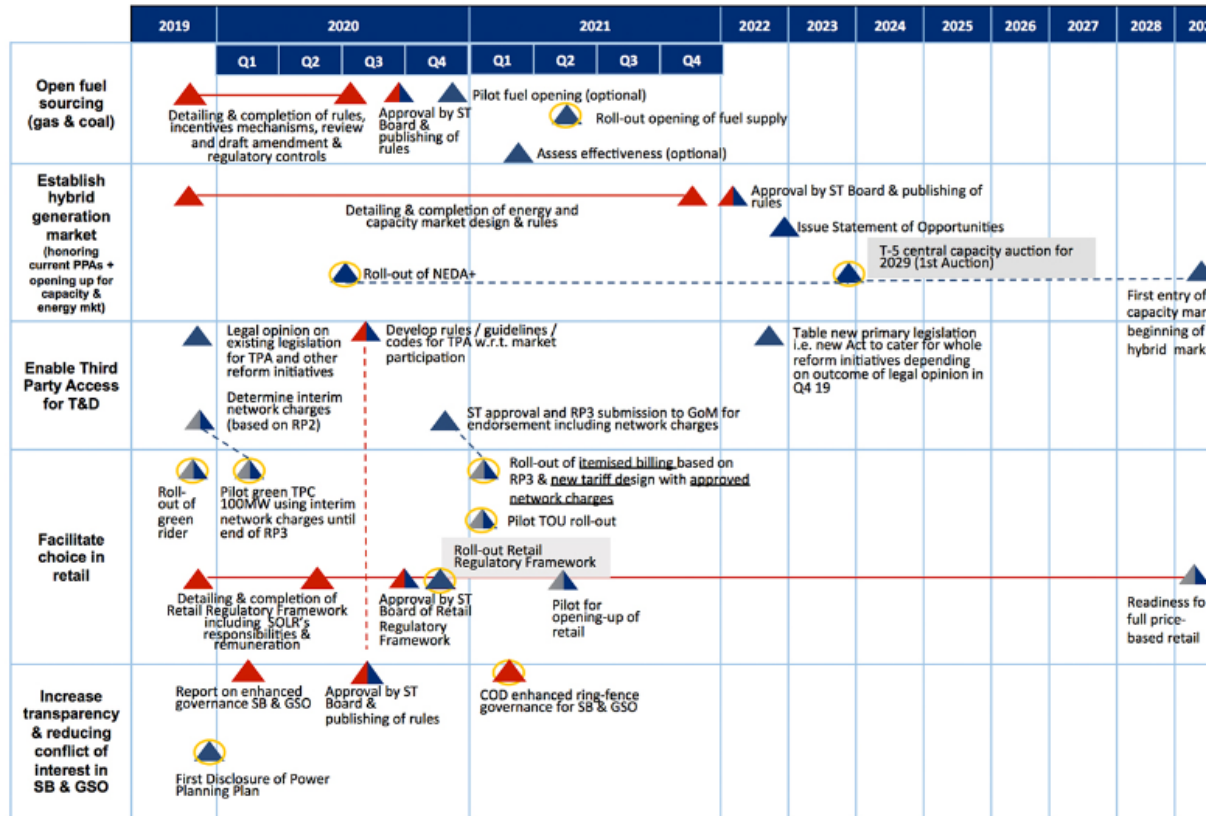
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Aggregated timeline for MESI initiative



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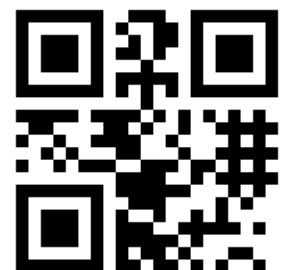
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Key reform Initiatives for MESI 2.0 (2019–2025)

Efficiency

- Allow generators to source own fuel to optimise cost
- Move from Power Purchase Agreement (PPA) regime to capacity and energy market
 - Enhance ring-fencing of Single Buyer and Grid System operator to maintain level playing field to all players

Customer Experience

- Establish **Third Party Access (TPA) network charges** for grid to facilitate
 - **Future-proof through digitalisation** to facilitate smart energy network using
 - Gradually open up retail market, allow new products & services for customers

Green / Sustainability

- Facilitate green energy producers and consumers
 - Products such as green tariffs, green gentailers (via Third Party Contract) and tradable green certificate

Security

- Maintain reliability and system security through investment in the system
- Continue support for targeted segments through Bantuan Sara Hidup
- Establish Supplier of Last Resort framework to ensure continuous electricity supply to customers

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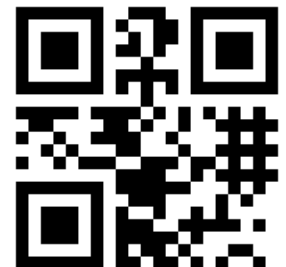
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Potential Outcome



Better Consumer Experience

- Choice, options and control
- Improved service levels



Reasonable Electricity Prices

- Regionally competitive
- Transparency across the value chain



Generating Additional Economy Activities

- Increased capital investments and new job opportunities (2019-2025)
- New Small Medium Enterprise (SME's) businesses

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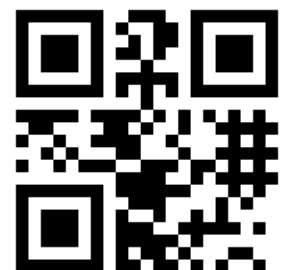
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