



**Speaker request form**  
**Second Session of Committee on Energy**  
**9-11 October 2019, UNCC CR-3, Bangkok**

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Name of the speaker:

Ms Latha R. Ganesh

Title or Official Designation:

Senior Assistant Director,  
External Relations,  
Energy Market Authority

Country:

Singapore

Agenda item: *Item 3: (a) Implementation of SDG 7 National Roadmap and (b) Regional energy connectivity in Asia and Pacific.*

Statement: Please attach new page if required.

Please see attached.

## Singapore's Roadmap for Sustainable Development Goal 7

### Introduction

1. Access to energy will always be a challenge for a small, densely populated city-state like Singapore which has no indigenous energy resources and limited options for harnessing alternative energy.
2. That said, Singapore has risen to the challenge and ensured that our population has access to reliable, competitively priced, and environmentally sustainable energy. Our long-term strategy and efforts have enabled us to build the necessary infrastructure to provide reliability electricity to the population.

### Access to Energy

3. Back in 1963, Singapore initiated a 10-year Rural Electrification Programme to electrify all housing areas. Costing nearly S\$20 million, the rural electrification programme enabled more than 200,000 people to enjoy the benefits of electrification.
4. In addition, Singapore implemented a compulsory electrification scheme when new public housing units were built by the Housing Development Board (HDB). The outcomes of these schemes enabled residential and commercial consumers to access electricity as well as town gas and liquefied petroleum gas (LPG) for cooking and water heating.

### Reliability of electricity system

5. As a reliable electricity supply is critical to Singapore's economic development, we focused on ensuring the sustainability of investments in electrical infrastructure. In addition, we continuously work with various stakeholders to prepare for a future-ready workforce to build a strong pool of competent power professionals given Singapore's fast evolving energy sector.
6. Today, the Energy Market Authority (EMA) has put in place several regulatory measures to further strengthen the reliability of Singapore's electricity supply. EMA also conducts regular reviews with industry players to enhance the emergency preparedness of the power sector. As a result of our efforts, Singapore's electricity grid is one of the most reliable in the world<sup>1</sup>.

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<sup>1</sup> Major outages are rare in Singapore in the past 14 years. However, in 2018/19 there were several supply disruptions. This reduced the SAIDI to 3.65 mins of age disruption/customer from 0.23-0.23 in the past. The SAIFI also dropped to 0.107 avg interruptions/customer in 2018 from 0.006-0.008.

### Competitive energy market

7. A key tenet of Singapore's sustainable energy strategy is to price energy right. As the first country in Asia to liberalise the electricity market, Singapore's market allows for setting the price of electricity, without any subsidies, thereby reflecting the true cost of the resource and promoting judicious usage of energy. This also allows Singapore to leverage on competition to promote innovation to exert downward pressure on electricity cost.

8. To date, all consumers have the option to buy electricity from retailers and choose a price plan that best meet their consumption needs and pattern.

### Sustainable energy

9. Singapore is committed to sustainable energy with the aim to reduce our greenhouse gas emissions to 36% below 2005 levels by 2030 under the Paris Agreement. However as renewable energy-disadvantaged, Singapore has identified solar as the most viable clean energy source. Despite the limited space and intermittency due to cloud cover, solar PV has grown from 0.4kWp 10 years ago to 262.4MWp as at 2Q2019.

10. Singapore plans to increase this to 1 GWp beyond 2020 and to achieve this we are investing in RD&D of solar PV and related technologies, addressing market barriers, enhancing our regulatory framework for intermittent generation sources and having the public sector lead in adoption of solar energy to encourage growth in the solar industry. As innovation will be a key driver to facilitate this growth, EMA rolls out competitive grant calls to catalyse applied R&D on innovative technologies and solutions. Over the years, EMA has awarded about S\$100 million benefitting some 25 companies and 11 Higher Learning/Research Institutes.

### Regional energy connectivity in Asia and Pacific

11. Singapore continues to play a major role in the regional fora like ASEAN and APEC. During our ASEAN Energy Chairmanship last year, we launched several concrete initiatives including the Capacity Building Roadmap in Energy Investments and Financing in ASEAN, finalised the recommendations in Green Buildings Codes for ASEAN, pushed for the recommendations on enhancing LNG cooperation and trade in ASEAN and facilitated the signing of the ASEAN-IRENA MOU at the 36<sup>th</sup> AMEM held in Singapore last October.

12. In addition to playing a major role in multilateral fora such as ASEAN, APEC and G20 and engaging the IEA and IRENA, Singapore organises the annual Singapore International Energy Week (SIEW) which is the Government's flagship energy event. Now in its 12th edition, the Singapore International Energy Week (SIEW) is a premier platform in Asia, which brings together the world's leading conferences, exhibitions and

roundtables. The global energy conversation is enriched by the political, business, academic and energy industry thought-leaders who define and advance the world's leading energy challenges and provide solutions across the energy spectrum of oil & gas, clean and renewable energy, and energy infrastructure financing.

13. In this regard, we would like to invite all the UNESCAP participants to attend the SIEW 2019 which will be held from 29 October to 1 November at Marina Bay Sands Singapore. Registration can be done online at

<https://www.siew.sg/Register/Registration/Login>.

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