



Industry Focus: UTILITY - ELECTRICITY & GAS

Prepared by: Lynette Lee Toh Wei Liang

SMEBank-SCEA@smebank.com.my (603) 2615 2020









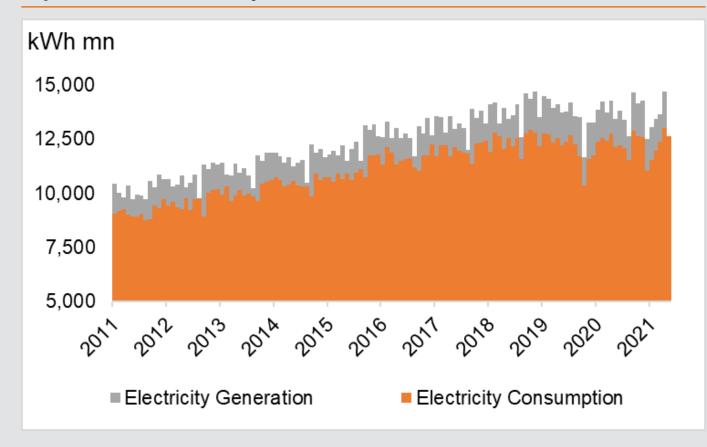
Industry Focus: Utility – Electricity & Gas (1/6)



Electricity consumption's compounded annual growth rate is forecasted to come in at 3.04% for 2022-2031, due to robust demand arising from growing population & resilient economic growth. Renewable energy (RE) growth is aimed at increasing the country's installed capacity for RE mix to 31% by 2025 and 40% by 2035 (Oct 2021: 23%).

Sub-Sector	Outlook
Electricity & Gas	Positive

Uptrend in electricity demand



Recent developments

- The Malaysia Renewable Energy Roadmap 2022 2035 targets installed capacity for renewable energy (RE) mix at 31% by 2025 and 40% by 2035, respectively. Coal-fired power facilities will no longer be built in Malaysia. RE growth will leverage on the existing untapped resources such as solar photovoltaic, bioenergy and hydro power. Solar power will remain the main source of non-hydro renewables.
- The 4th cycle of the large-scale solar programme (LSS4) was concluded in 2021 with a selection of 30 companies to develop solar farms. The tender for LSS5 is expected to open this year, with a higher tariff reference than LSS4 due to higher prices of solar-related materials.
- Malaysia has committed to **reduce carbon emission** intensity (against GDP) by 45% by 2030 at the 26th Conference of Parties (COP26) end-last year, up from the 35% pledged at COP21 in 2015. The government estimates that green energy programmes will generate >20,000 jobs and investments worth >RM12 bil.

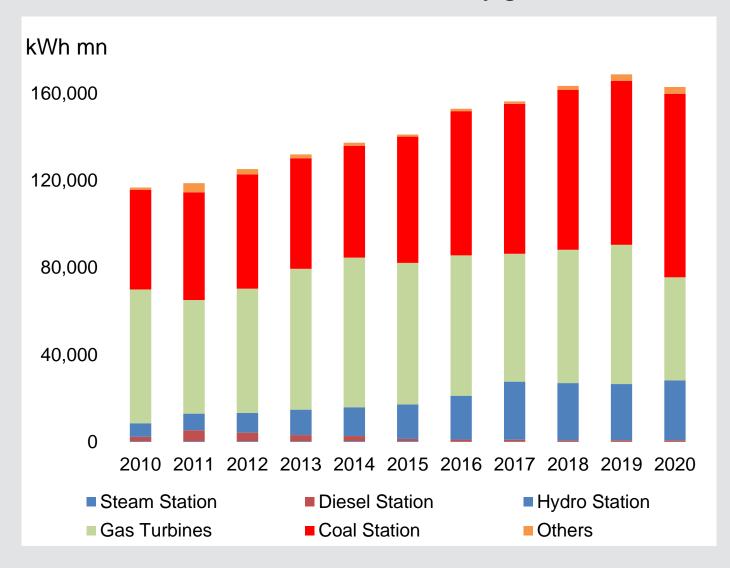




Industry Focus: Utility – Electricity & Gas (2/6)



Coal station remains dominant electricity generation source







- Malaysia imports ~90% of coal for electricity generation purposes. The majority of Malaysia's coal imports come from Indonesia (63%) followed by Australia (24%), Russia (11%), and South Africa (2%).
- Coal prices reached an average new high of USD234 /tonne in Oct 2021, but has eased to USD166 /tonne as at Jan 26. The power generation industry is under pressure as global coal prices continue to rise (persistently above its pre-pandemic 3-year historical avg of USD50-70 /tonne).
- The sharp rise in coal prices resulted in **power generation costs rising by 45%** and caused a big impact on electricity tariff in Peninsula Malaysia. The **surcharge**, imposed under the Imbalance Cost Pass-Through (ICPT) mechanism, **rose 3.7 sen/kWh on non-domestic users from February to June 2022** while a 2 sen rebate for domestic users (household) is maintained.
- The government eyes coal power facilities to be replaced by natural gas power plants in Peninsular Malaysia from 2030 onwards.



- Indonesia banned coal exports in January 2022 for mining companies that do not comply with the regulation to supply 25% of annual production to the domestic market at a price well below current market rates.
- The temporary ban until end of the month was due to concerns that low supplies at domestic power plants could lead to widespread blackouts.
- Nonetheless, restrictions were relaxed by 20th January and 139 firms were given permission to ship internationally.



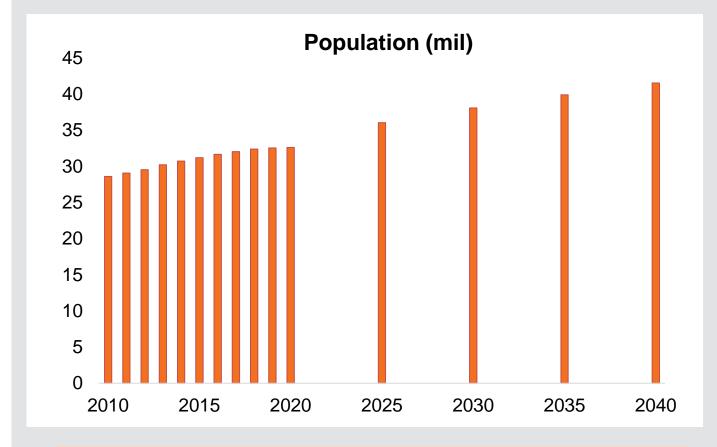


Industry Focus: Utility – Electricity & Gas (3/6)





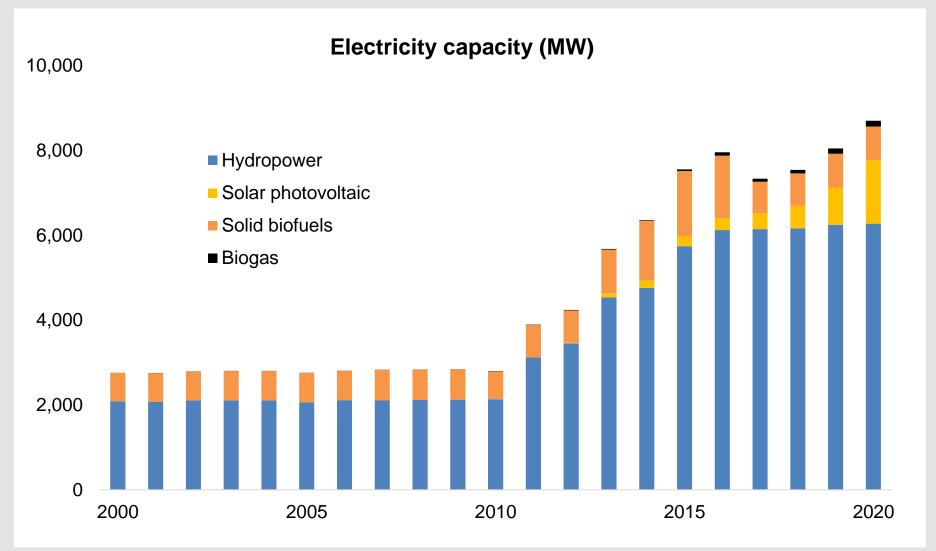
As population grows, electricity demand should increase



To generate electricity entirely from RE?

<u>Unlikely</u>. It is critical to have a <u>diverse range of energy</u> sources. Should one fail, another source can be utilised.

- Excluding fossil fuels, Malaysia is currently depending on large-scale hydropower.
- However, these hydropower plants have caused the loss of land for many indigenous people. Environmental cost related to the submerging of huge tracts of land is also another concern, apart from the expensive development costs.
- Therefore, in recent years, the government has been focusing more on solar projects.







Industry Focus: Utility – Electricity & Gas (4/6)





- Malaysia's strategic location near the equator underpins its ability to pursue more aggressive solar energy plans.
- In terms of building and construction costs, **solar plants** in Malaysia have **lower production costs and are easier to finance** compared to hydro electric power plants.
- The potential for solar panel adoption is enormous, given untapped capacity of 3.2 mil landed houses. Furthermore, solar photovoltaic (PV) manufacturing costs have really decreased in price by 85% in the last decade.

Types of support / programmes:

Technical

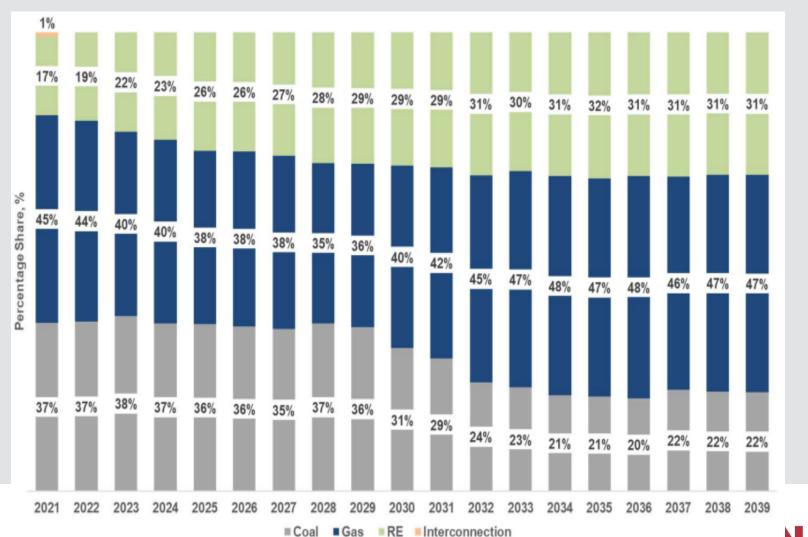
- 1. The Net Energy Metering allows power bill rebates with solar installations and the export of excess solar PV generated energy back to the grid.
- **2. Utility-scale batteries** will be installed from 2030 onwards to support RE generation.
- 3. Feed-in tariff is a scheme that allows consumers to generate their own electricity and sell it back to the grid.
- **4. Self-Consumption (SELCO)**: electricity is generated solely for personal usage, with no permission to be exported to the grid.

Financial



- 1. The **Green Investment Tax** and capital allowance. Companies engaged in **solar leasing** are eligible for **income tax exemption of 70% of statutory income for 5 or 10 years** based on the energy production capacity.
- 2. RM1 bil sustainable and low carbon practices financing by BNM.

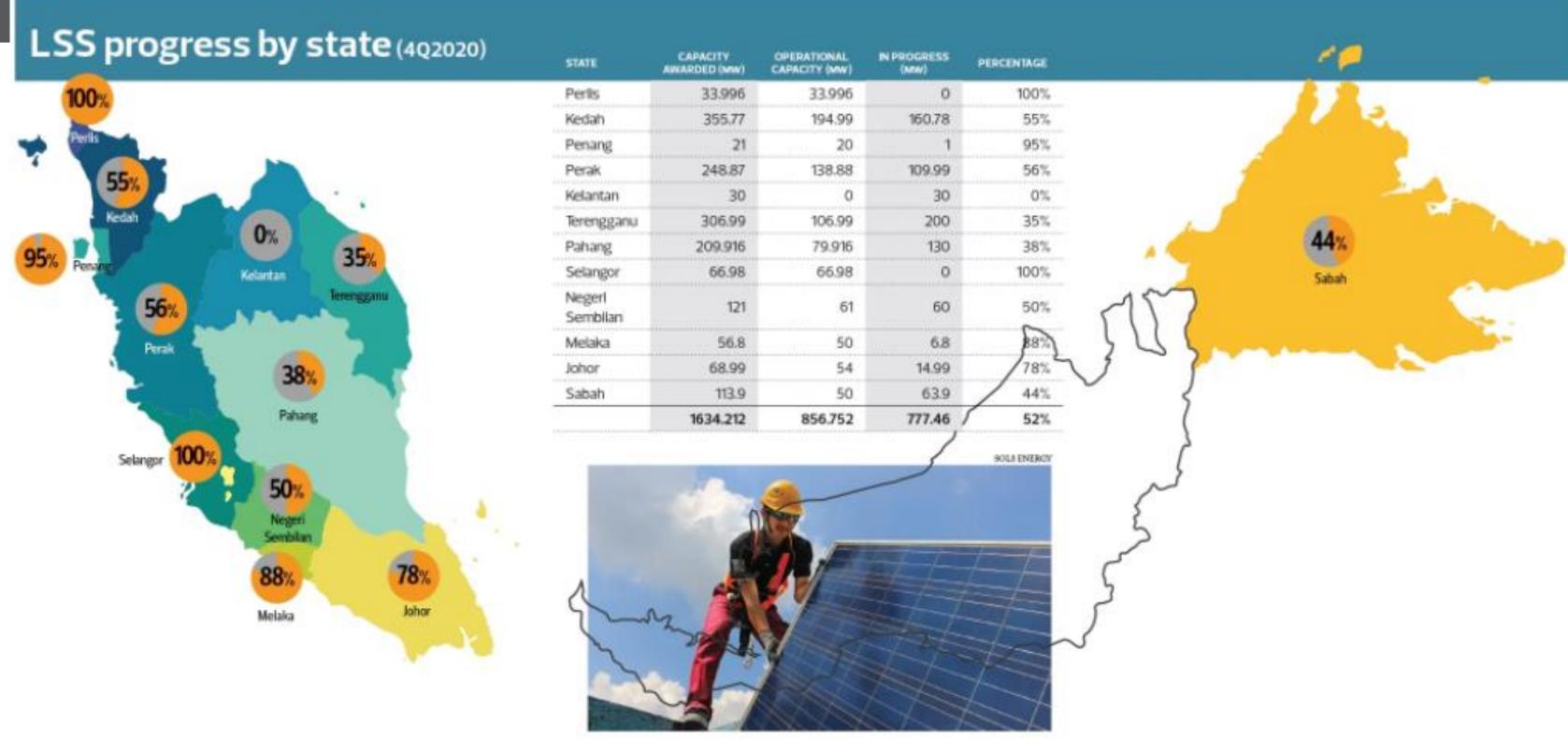
RE expected to make up close to a third of installed capacity in Peninsular Malaysia from 2032 onwards





Industry Focus: Utility – Electricity & Gas (5/6)





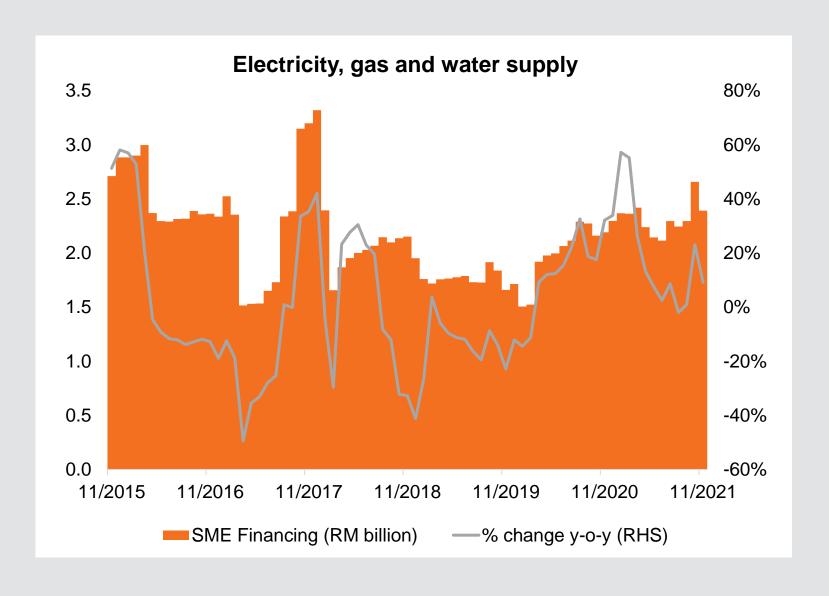


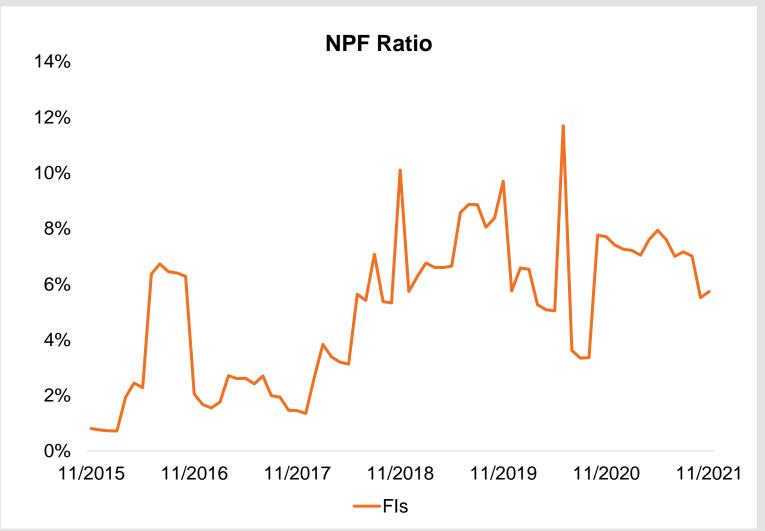


Industry Focus: Utility – Electricity & Gas (6/6)



- Based on industry data, financing extended to this sector tends to fluctuate drastically, given the lumpy nature.
- Similarly, NPF ratio has been swinging up and down, with the latest 12-month ratio averaged at 7.1%.











DISCLAIMER

SME BANK has exclusive proprietary rights in the data or information provided herein. This document is the property of SME BANK and is protected by Malaysian and international copyright laws and conventions. The data and information shall only be used for intended purposes and not for any improper or unauthorised purpose. All information contained herein shall not be copied or otherwise reproduced, repackaged, transmitted, transferred, disseminated, redistributed or resold for any purpose, in whole or in part, in any form or manner, or by any means or person without SME BANK's prior written consent.

This research report provides general information only. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other investment or any options, futures or derivatives related to such securities or investments. It is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. Investors should seek financial advice regarding the appropriateness of investing in any securities, other investment or investment strategies discussed or recommended in this report and should understand that statements regarding future prospects may not be realised. Investors should note that income from such securities or other investments, if any, may fluctuate and that price or value of such securities and investments may rise or fall. Accordingly, investors may receive back less than originally invested. Past performance is not necessarily a guide to future performance. Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

Any opinion, analysis, observation, commentary and/or statement made by SME BANK are solely statements of opinion based on information obtained from sources which SME BANK believes to be reliable and therefore, shall not be taken as a statement of fact under any circumstance. SME BANK does not and is in no position to independently audit or verify the truth and accuracy of the information contained in the document and shall not be responsible for any error or omission or for the loss or damage caused by, resulting from or relating to the use of such information. Analysts based in SME BANK offices produce research on macroeconomics, equities, fixed income, currencies, commodities and portfoliostrategy.

SME BANK and its affiliates, subsidiaries and employees shall not be liable for any damage or loss arising from the use of and/or reliance on documents produced by SME BANK or any information contained therein. Anyone using and/or relying on SME BANK document and information contained therein solely assumes the risk in making use of and/or relying on such document and all information contained therein and acknowledges that this disclaimer has been read and understood, and agrees to be bounded by it.









Small Medium Enterprise Development Bank Malaysia Berhad 49572-H Menara SME Bank, Jalan Sultan Ismail 50250 Kuala Lumpur **Tel:** 03-2615 2020 **Fax:** 03-2698 1748 **Email:** customercare@smebank.com.my www.smebank.com.my











An agency under



