



7th International Skills Forum
Anticipating and Preparing for Emerging Skills and Jobs

12-14 December 2017 • Asian Development Bank, Manila, Philippines



An Indonesian Solution to Skills Training for the Renewable Energy Sector

Manila, 14 December 2017

Mae Chu Chang

Nathan Hart

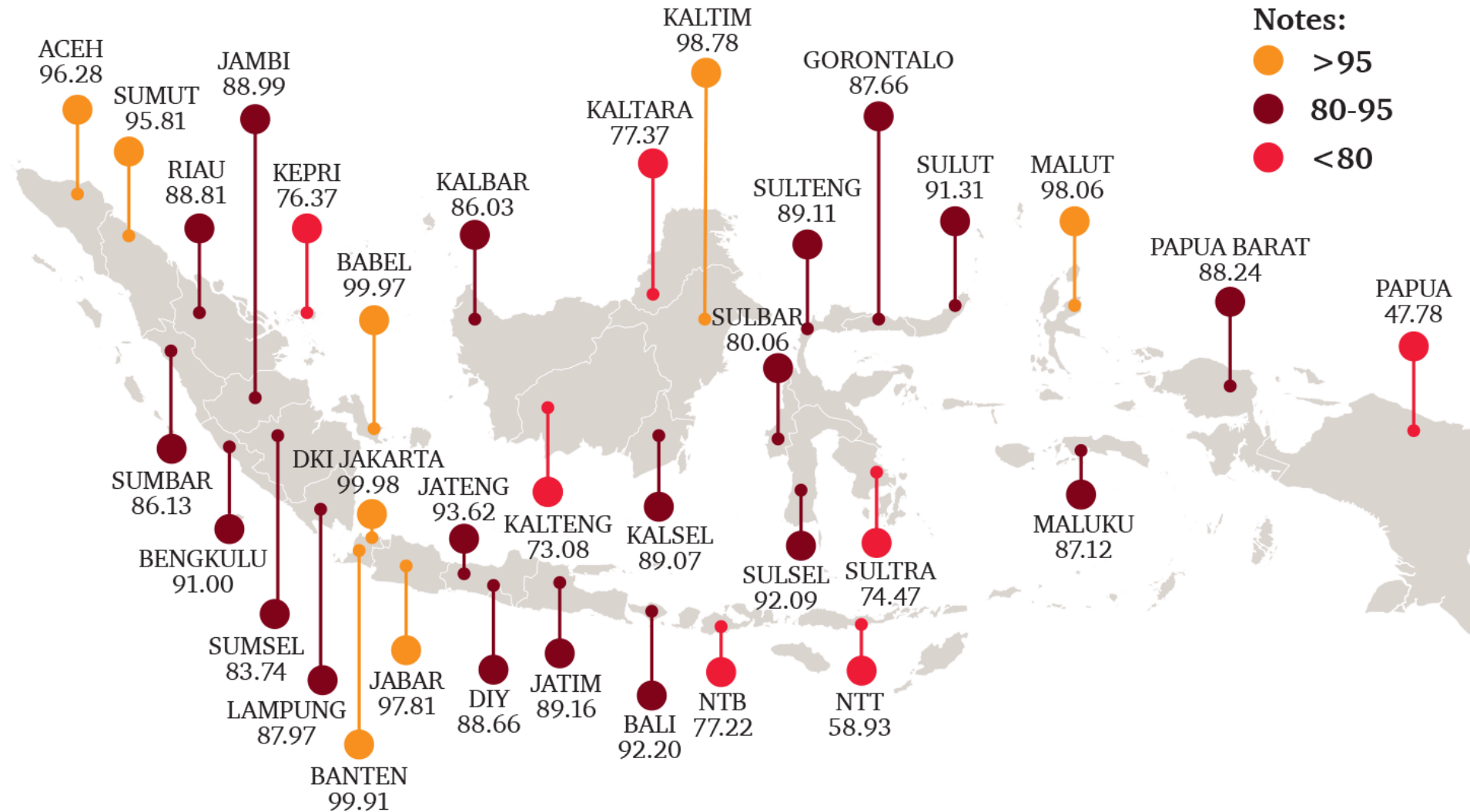
This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.



Indonesia's energy snapshot: growing to meet demand but still short of universal access

- Largest energy user in ASEAN
- Electricity consumption will triple by 2030
- More than 10% of the country still lacks access (30 million people)
- Abundant renewable energy resources
- Ambitious renewable energy targets (23% by 2025, currently 11%)

Electrification Rates in Indonesian Provinces (2016)



Source: LAKIN DJK 2016, p. 28.

Distributed Renewable Energy:

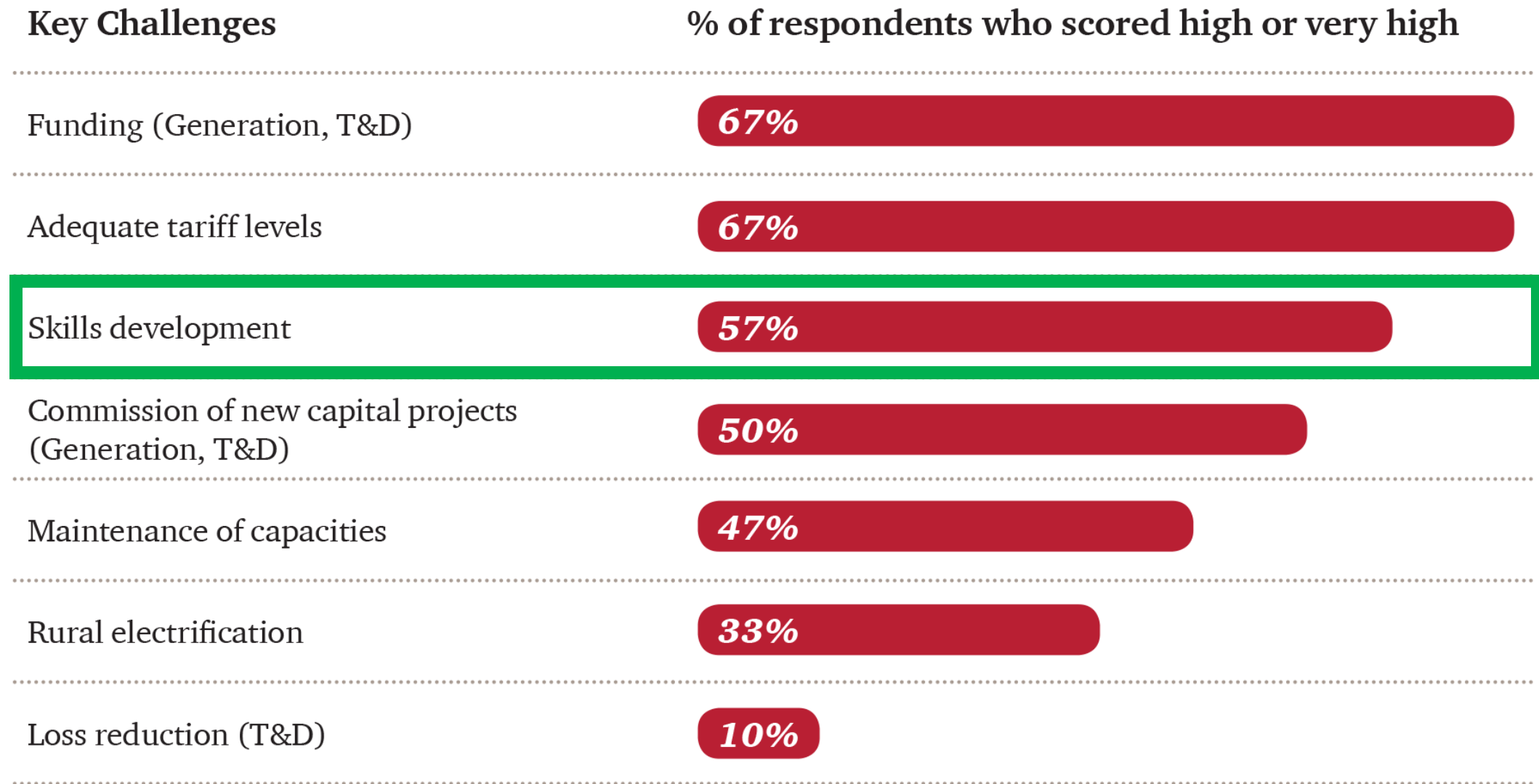
A solution, but with skills shortages

- Mini and off-grid renewable energy offers solution for ⚡ remote areas
- Local labour is recruited to operate & maintain, but not given trained
- Lack of expertise has led to a pattern of operational problems and system failures
- Estimated 1.3 million jobs in renewables by 2030



Indonesian Power Industry Survey 2017

Figure 6. Which of the following key challenges have a high priority in your business operations today?





PEKA SINERGI

- **A national certification system for operators and technicians of small-scale renewables**
- Leverages vocational high schools in remote areas for training and testing
- Partnerships with industries for on-site certification testing
- Developed in coordination with Ministries of Education and Energy





Next steps for Indonesia: Schools Expansion

Renewable Energy Schools

Planned by the
Ministry of Education



Next Steps for Asia Pacific

- Regional alignment of skills competency standards
- Identify countries with similar enabling environment
 - potential for distributed RE (islands)
 - vocational schools \leftrightarrow RE industry



 **sinergi** is actively seeking collaborations across Asia!



THANK YOU!
info@sinergi.org



Training for Indonesia's Future

info@sinergi.org