

Recovering Better with Sustainable Energy:

It's about jobs and competitiveness

Glenn Pearce-Oroz
Director, International Relations and Special Projects
Sustainable Energy for All

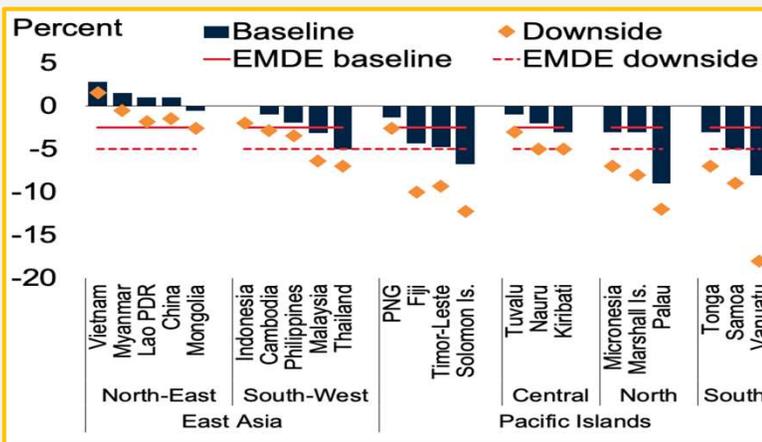
ACEF Spotlight Session – Energy Access amidst Covid-19 and Beyond
18 June 2020

CONFIDENTIAL AND PROPRIETARY
Any use of this material without specific permission is strictly prohibited

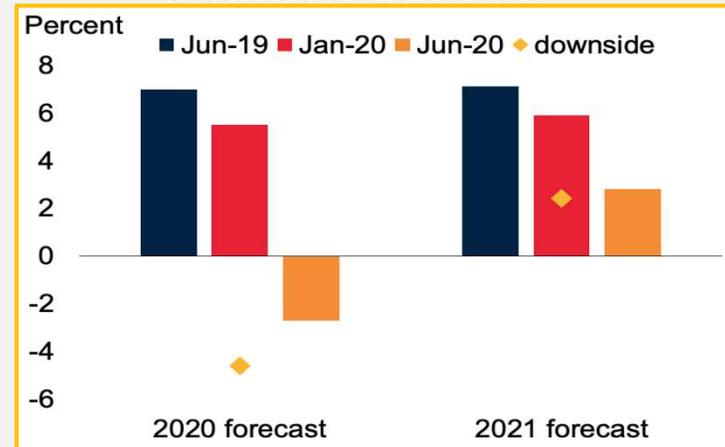


COVID-19 has put Global and Asian Economies into worst contraction ever

East Asia and Pacific 2020 Growth Forecast



South Asia Growth Forecast



Emerging Markets and Developing Economies (EMDE) in Asia would experience severe economic contraction, and countries depending on tourism, oil/energy exports, SMEs and deep global value chains would experience most impacts.

Source: World Bank Global Economic Prospects June 2020, IMF



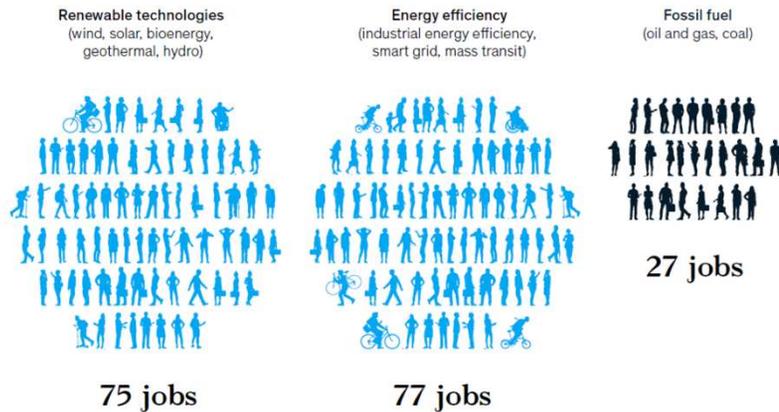
RE and EE provide employment, commercial and health benefits



Job Creation

Government spending on renewable energy and energy efficiency has been shown to create more jobs than spending on fossil fuels.

Jobs created, directly and indirectly,¹ per \$10 million in spending



¹Excludes induced jobs.

Source: Heidi Garrett-Pettier, "Green versus brown: Comparing the employment impacts of energy efficiency, renewable energy, and fossil fuels using an input-output model," *Economic Modelling*, pp. 439–47, 2017



Health

- **Increased Vaccination with Energy Efficient Cold Chain.**
- **50% increase in care with electrified clinics.**



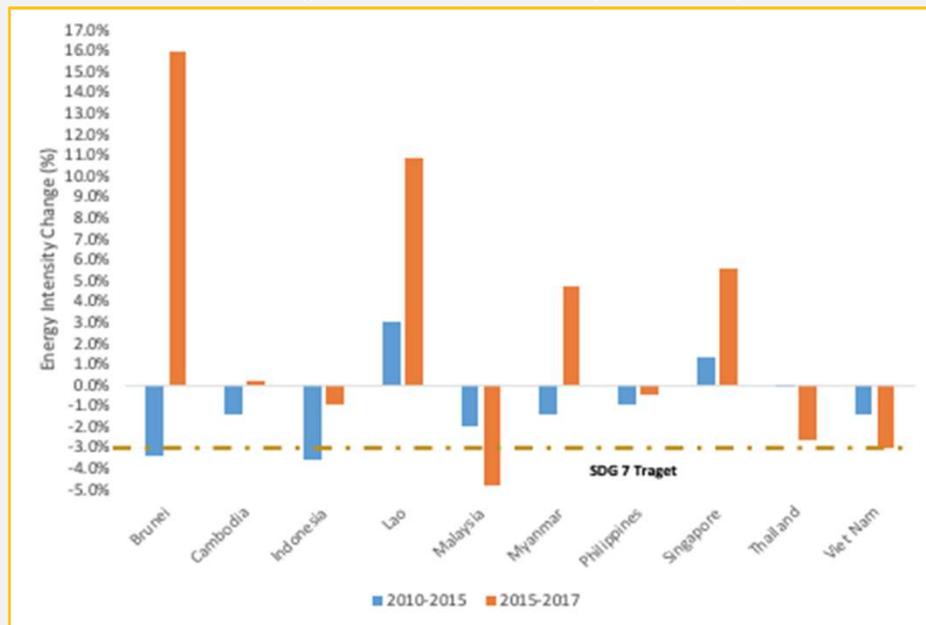
Agriculture

- **170 – 250 additional tonnes/ year of food due to cold chains.**
- **EE Cold Chains to save significant operational costs.**



The Opportunity: Energy Efficiency is the “first” and “cheapest” fuel than needs to be capitalized

ASEAN Energy Efficiency Trends (2010-2017)



Source: 2020 SDG7 Tracking Report

- There is still a lot of untapped EE potential in Asia that remains to be unlocked.
- Energy Efficiency is the cheapest fuel that can power businesses towards higher competitiveness and strengthen resilience.



Greater Energy Efficiency in Buildings creates Jobs, stimulates Construction sector and addresses Sustainability

Vast EE potential for Buildings in Asia

- Every year, more than 50% of world's new buildings are constructed in Asia and an estimated 25 percent of overall energy consumption.



Job Creation through EE in Buildings

- A fully realized EE investment potential in buildings sector could create about 2.4 million jobs in South East Asia alone.



Significant investment opportunities

- EE investment for Building Sector in South East Asia is valued at US\$ 152 billion.



Competitive and Resilient Businesses

- For example, Malaysia has 21 million sq. Meters floor area of office buildings and making them energy efficient will reduce energy costs for businesses.

Source: the ASEAN post , Belarus: Scaling Up Energy Efficiency Retrofit of Residential and Public Buildings , Denmark in Malaysia (<https://malaysia.um.dk/en/news>)



Low Hanging Fruit: Sustainable Cooling provides significant opportunities for addressing Equity and Energy Efficiency in Asia

Cooling Access: Populations at Risk in Asia

Rural Poor: **Approximately 109 Million**

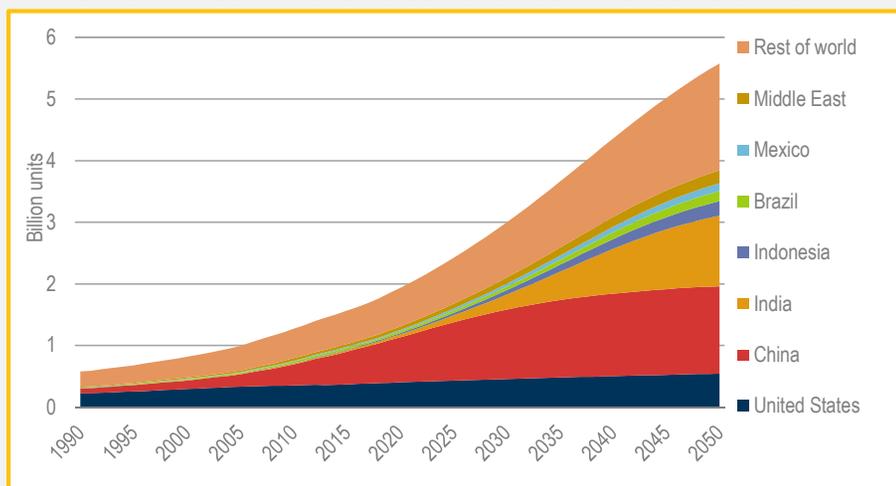
Urban Poor: **Approximately 484 Million**

Lower-middle Income: **Approximately 1.8 Billion**

Cooling Access issues for Health and Productivity

- **USD 630 billion** of annual economic loss due to heat stress.
- **59 million** full-time jobs lost in Asia by 2030.
- **Access to cold chains** remains essential for safely storing and transporting vaccines to combat and prevent pandemics.

Global air conditioner stock and estimate future demand



- **By 2050, around 2/3 of the world's households could have an air conditioner. China, India and Indonesia will together account for half of the total number.**
- **Without addressing energy efficiency, energy demand for space cooling will more than triple by 2050 – consuming as much electricity as all of China and India today.**

Source: SEforALL Chilling Prospects 2020 , IEA



The image features a graphic design split into two main sections. On the left, a solid yellow background contains a white circular outline. Inside this circle, the text "SUSTAINABLE ENERGY FOR ALL" is written in a clean, white, sans-serif font, with "FOR ALL" in a larger, bolder font. On the right, a photograph shows a clear blue sky with a bright sun and a few wispy clouds. Below the sky, two rows of blue solar panels are mounted on a roof with terracotta tiles. The overall composition is modern and clean, emphasizing renewable energy.

SUSTAINABLE
ENERGY
FOR ALL