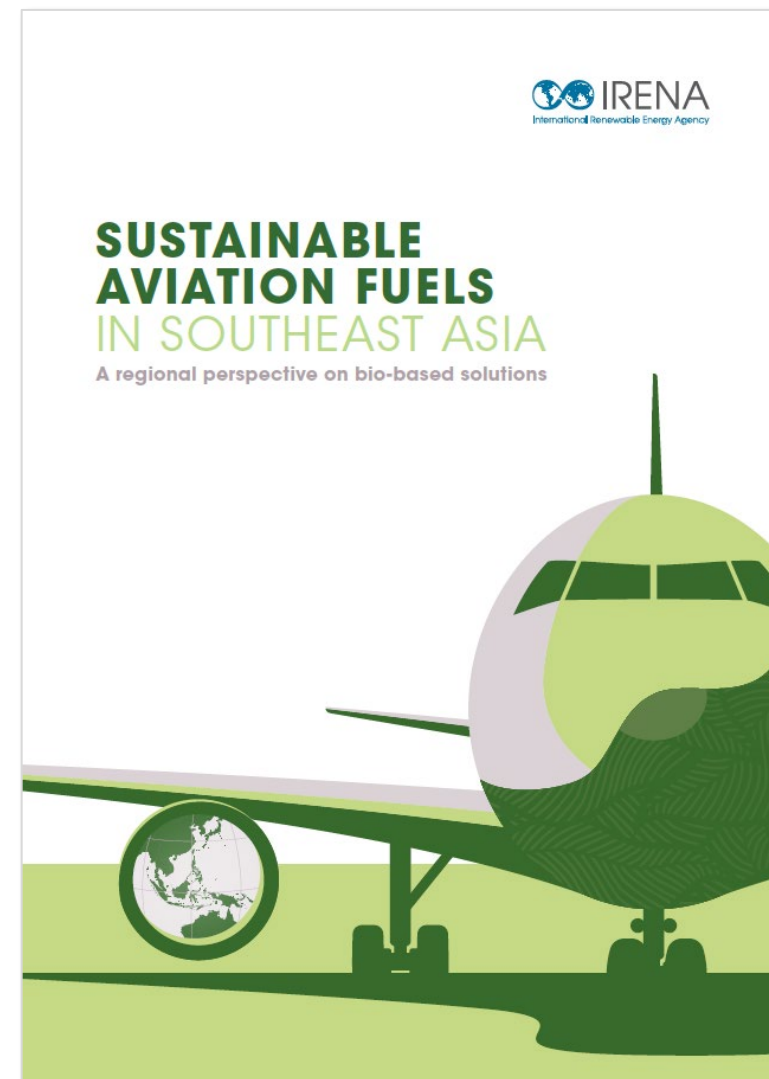


SUSTAINABLE AVIATION FUELS (SAF) IN SOUTHEAST ASIA

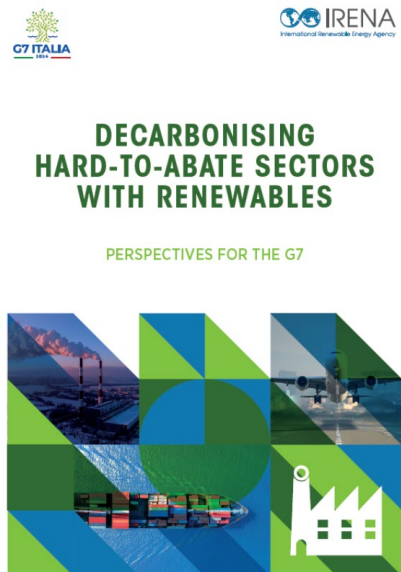
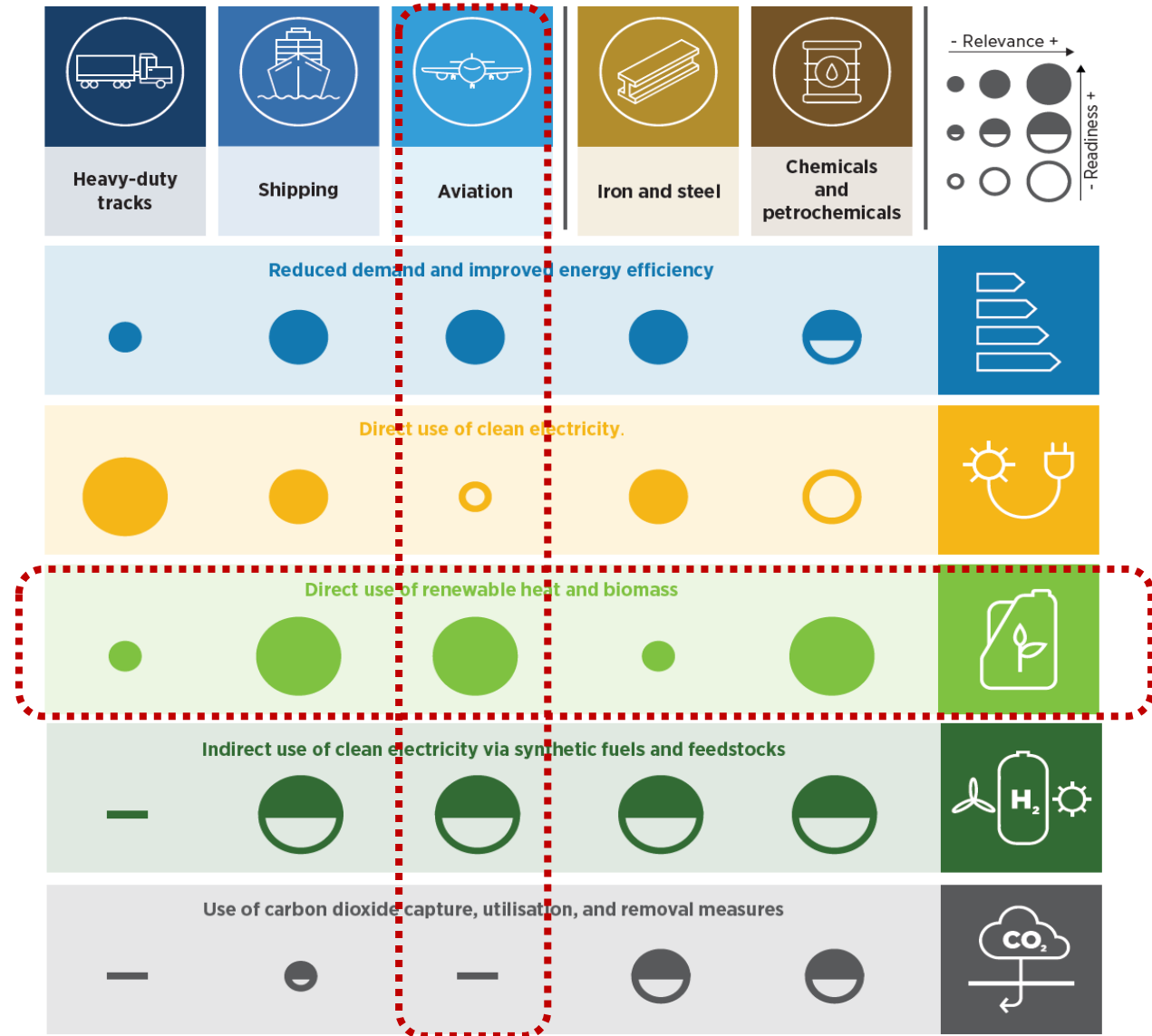
A regional perspective on bio-based
solutions

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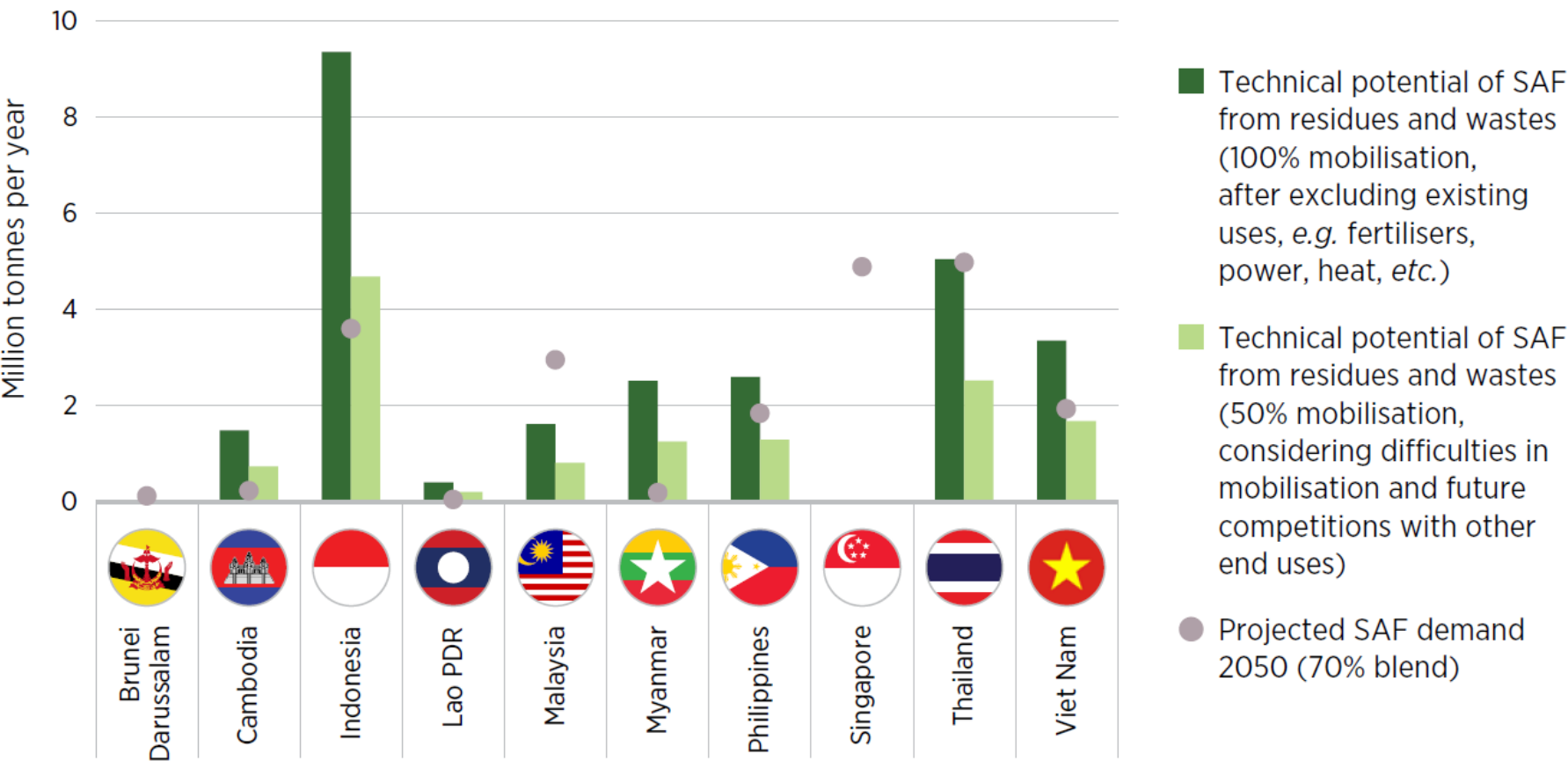
Hard-to-abate sectors

Bioenergy is deemed the **most technologically ready & relevant** option for **aviation**, shipping, and chemicals.



Potential volume of SAF from residues and wastes

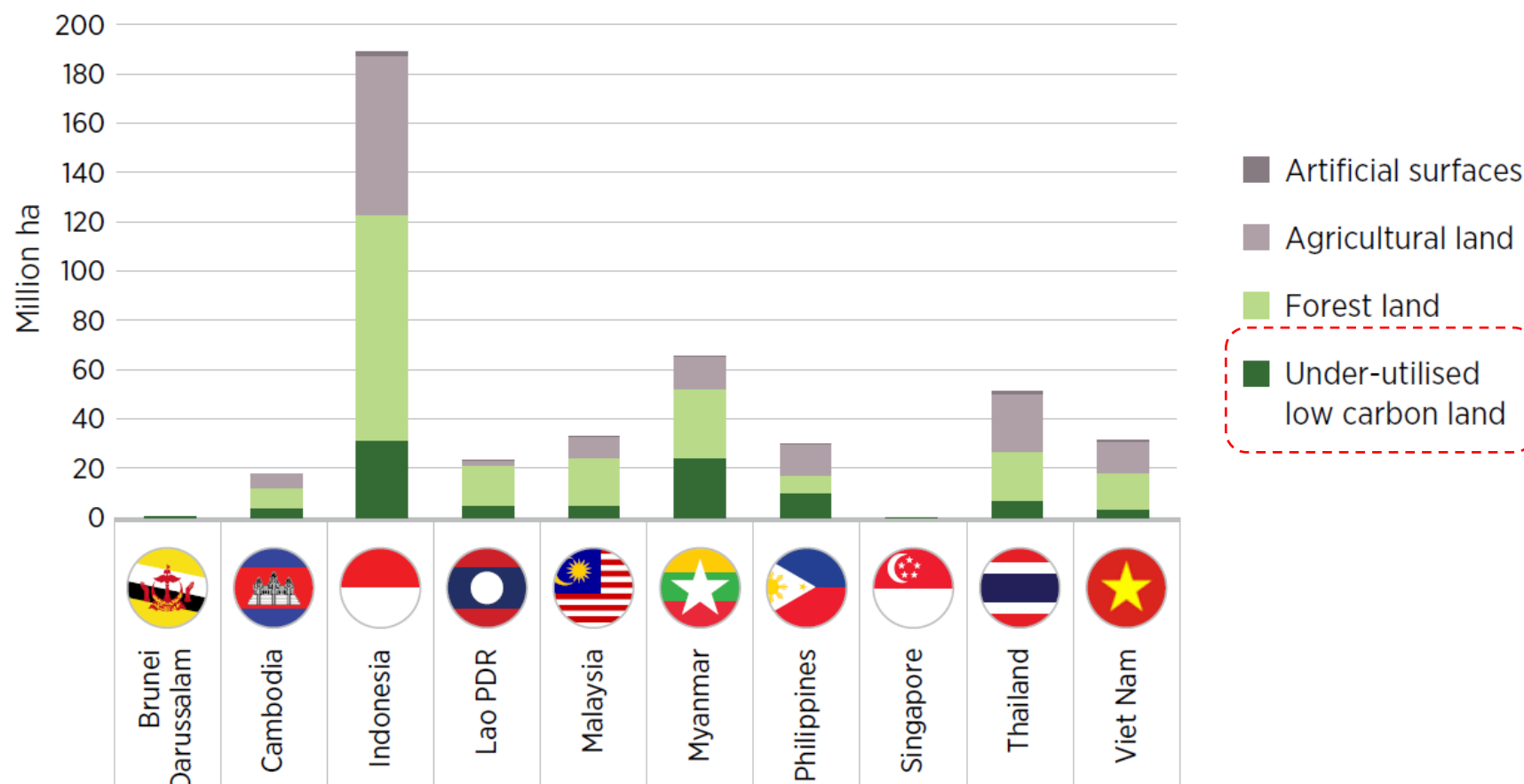
Figure 1 Potential volume of SAF from residues and wastes compared to projected demand in 2050



Notes: Technical potential = The technical volume of biomass feedstock is calculated by subtracting the theoretical volume with the recovery rate and the utilisation rate of the feedstock in existing competing uses, but does not consider future competition from, e.g. shipping or biochar applications. Lao PDR = Lao People's Democratic Republic.

Potential under-utilised low carbon land?

Figure 2 Rough estimates of under-utilised low-carbon land area* in Southeast Asia



Note: *i.e. land remaining after excluding forest land, agricultural land and artificial surfaces.

Based on: FAOSTAT (FAO, 2023b)

Three aspects to consider

- International trade and investment - resources are not evenly distributed among countries
- Feedstock allocation between sectors - a longer-term strategy for hard-to-abate sectors (aviation, shipping), incentivise alternatives in other sectors
- Local conditions and labour availability for energy crops production - farmers, landowners, and local communities