



Philippine Green Energy Auction Program (GEAP) Primer

Oct 2024

INDEX PARTNERS

GEAP Background and Introduction

PRINCIPLES AND OBJECTIVES

GEAP as the base for RE development

- ✓ The Green Energy Auction Program (**GEAP**) is designed to accelerate the country's shift toward renewable energy.
- ✓ The Department of Energy (**DOE**) uses these auctions to secure capacities and competitive tariffs.

GEA1

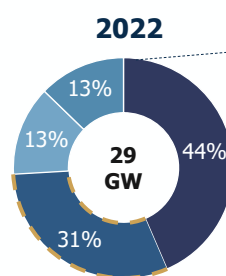
1,967 MW of New RE capacities

GEA2

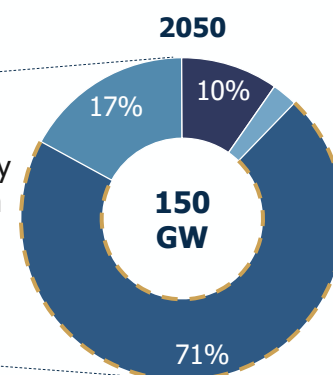
3,441 MW of New RE capacities

Philippine renewable energy targets

Power capacity of energy by source (in Percent)

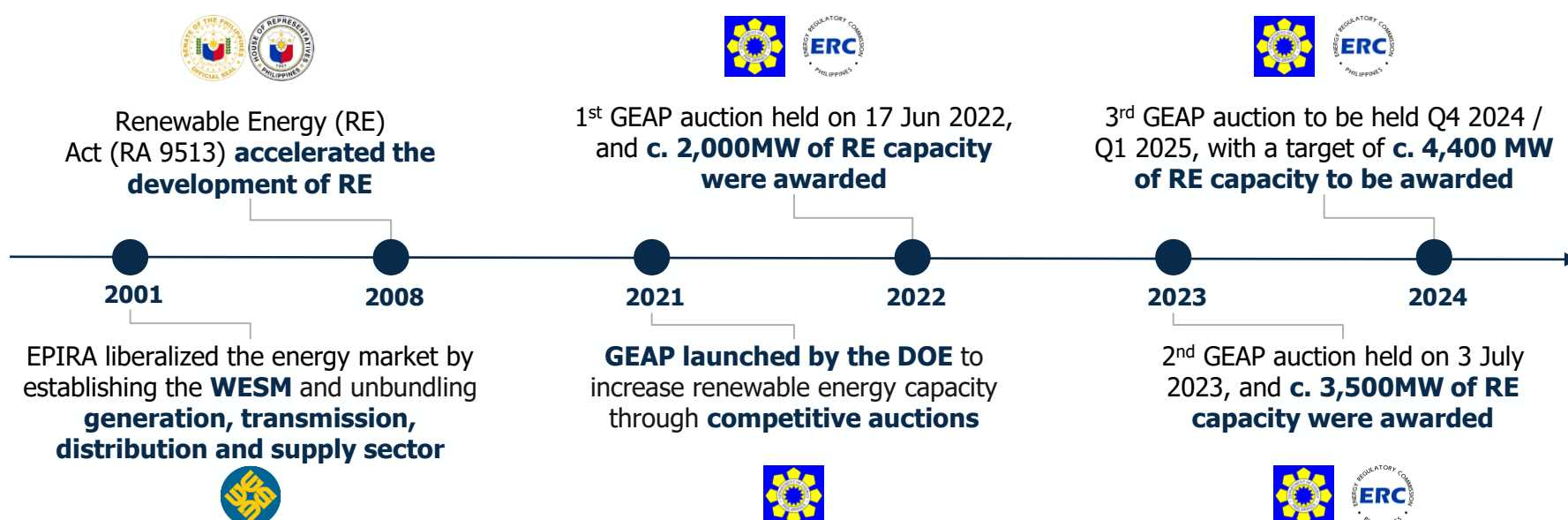


Installed generating capacity expected to **grow 5x**, with **renewables** comprising **71% of the total**



■ Coal ■ Renewable Energy ■ Oil ■ Natural gas

TIMELINES

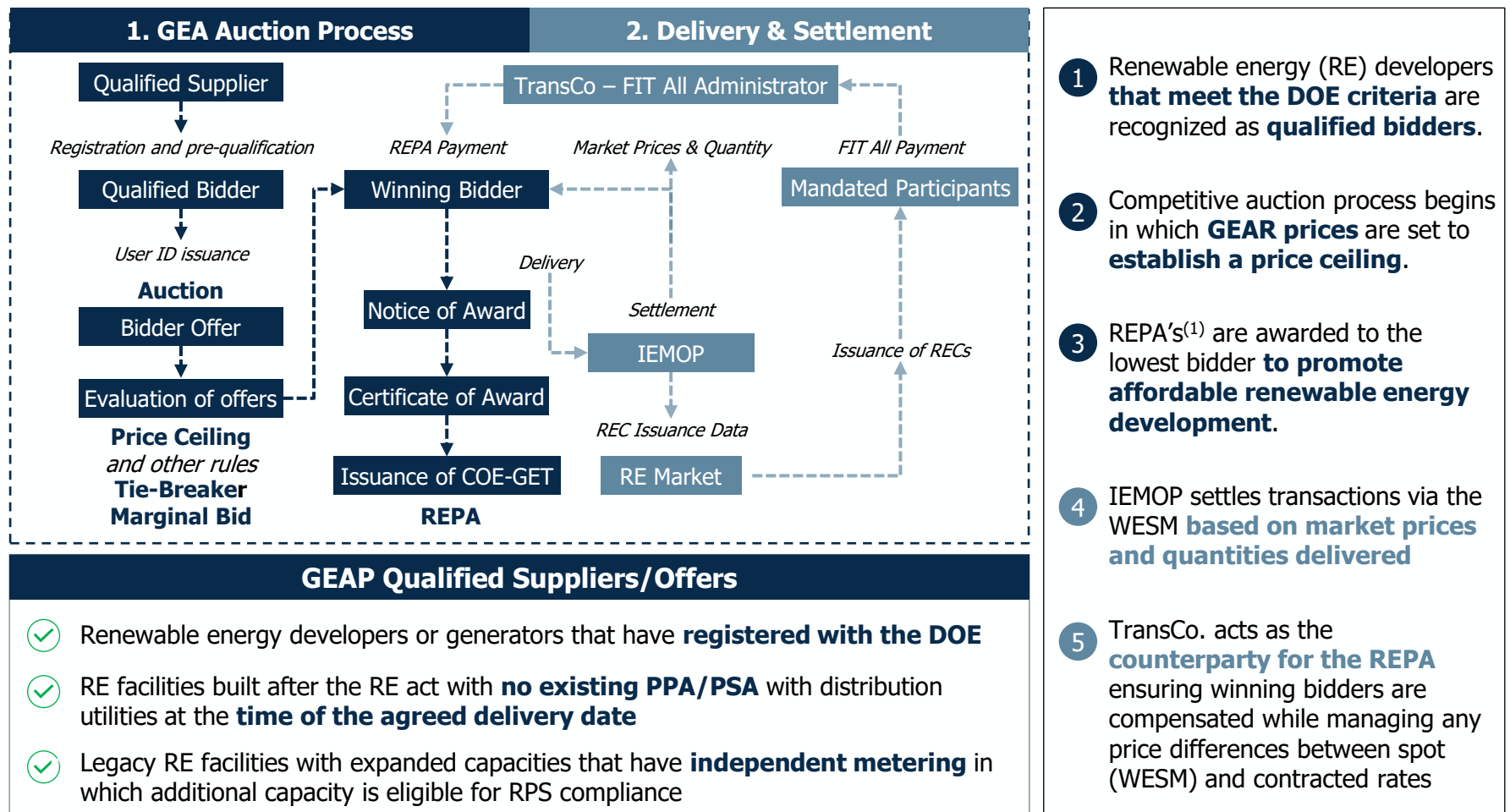


COMPARISON OF OFFTAKE OPTIONS

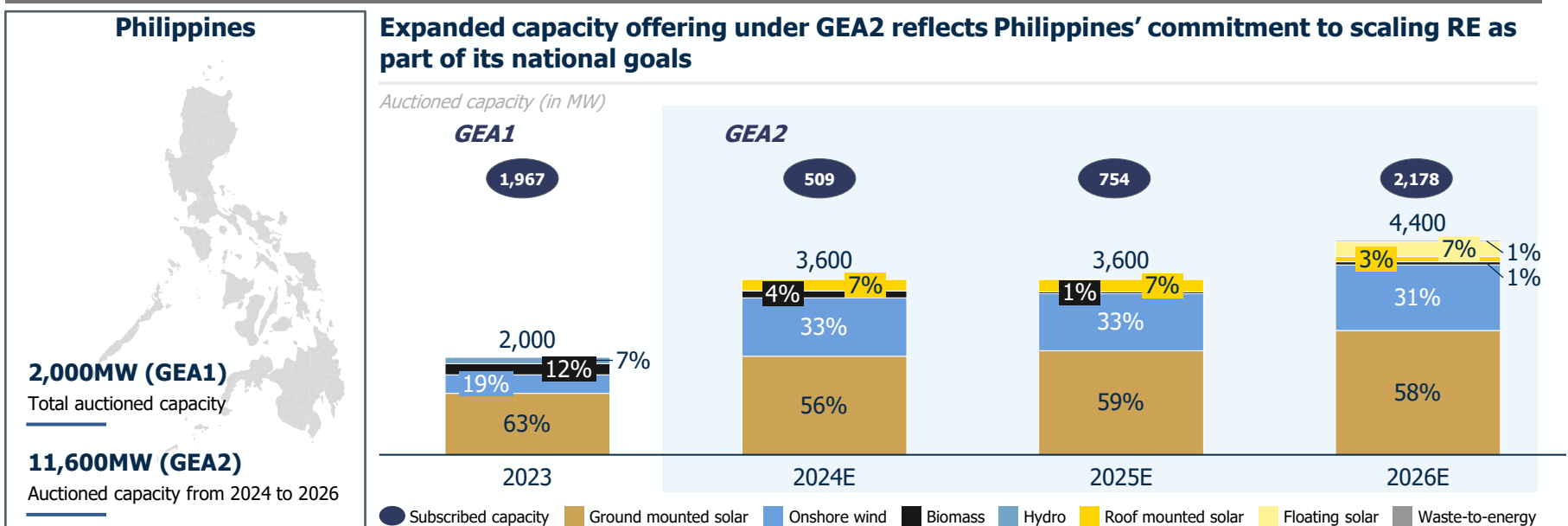
	Green Energy Auction Program	Contract with DU or EC	Contract with Retail Electric Supplier (RES)	Wholesale Electricity Spot Market (WESM)
Description	Offtake contracts secured through government auctions	Bilateral contracts with a Distribution Utility (DU) or Electric Cooperative (EC)	Offtake agreements under the Retail Competition and Open Access regime	Selling uncontracted energy in the spot market
Market Players	  	   	    	 
Pros	✓ Transparent and competitive process ✓ Long-term contracts provide revenue stability	✓ Direct contracts can simplify energy distribution ✓ Long-term contracts provide revenue stability	✓ Flexibility in pricing and contract terms. ✓ Multiple customers reduces dependency on single buyer	✓ Opportunity to capitalize on favorable spot market prices ✓ Immediate access to market without contract delays
Cons	× Competitive bidding may lower prices × Limited flexibility	× Dependence on a single buyer increases risk × Competitive selection process may cause delays	× Uncertain demand from customers may lead to inconsistent earnings	× Price fluctuations increase revenue instability (option to hedge pricing through Green Tiger Markets (GTM) forward market)

GEAP Overview, Mechanics, and Auction Design

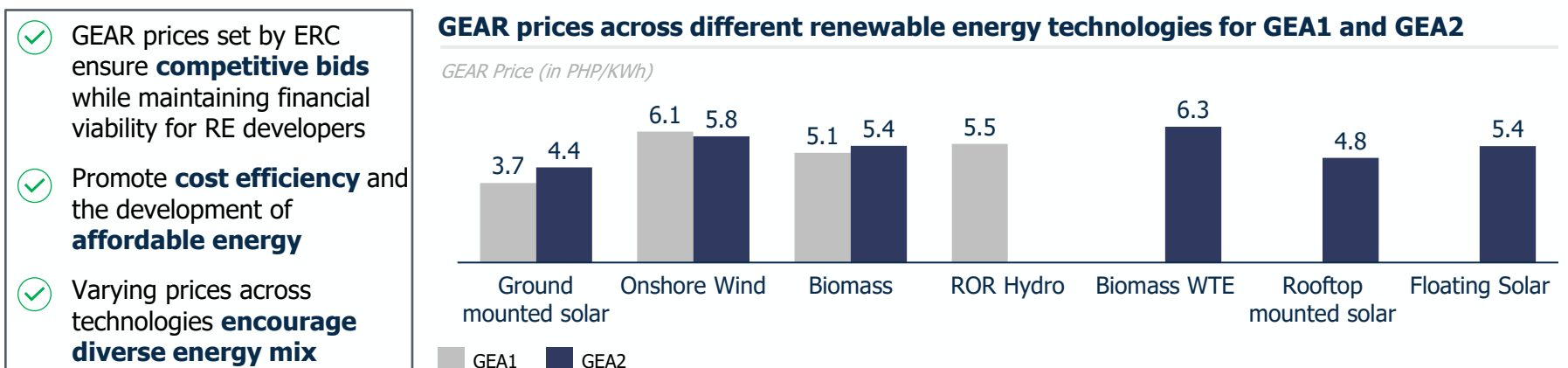
STRUCTURE OF GEAP



AUCTIONED CAPACITY

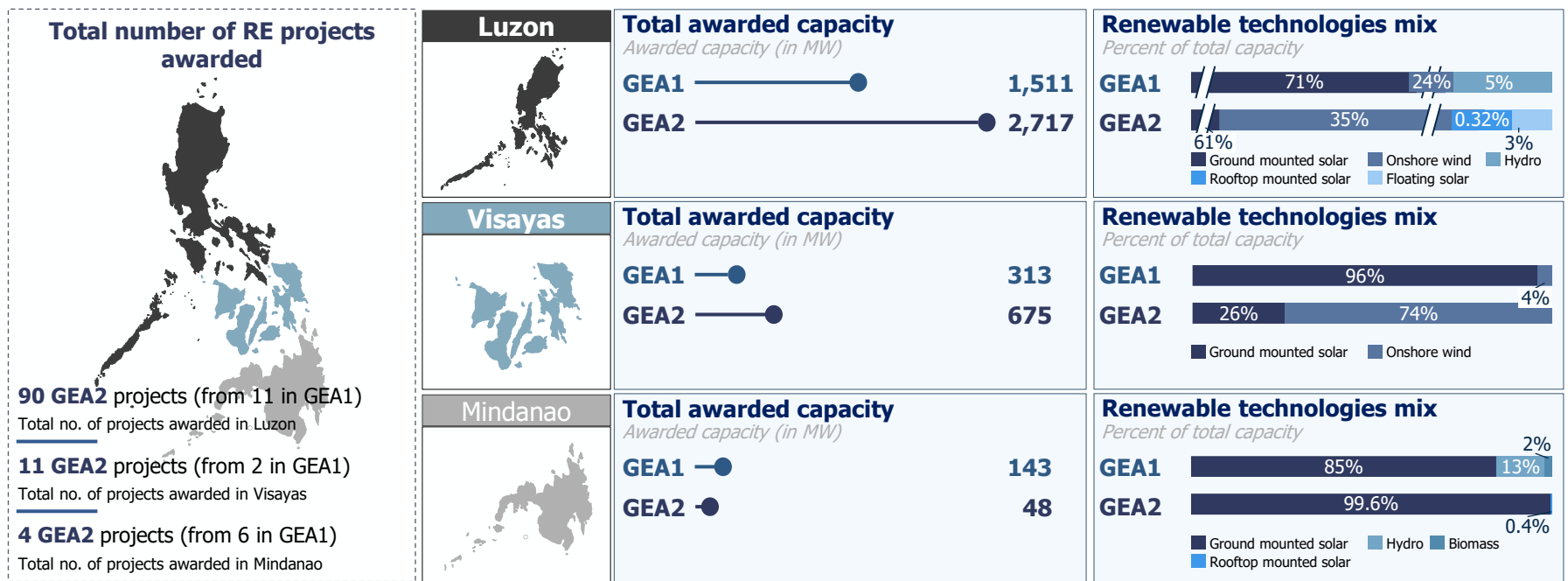


GREEN ENERGY AUCTION RESERVE (GEAR) PRICING

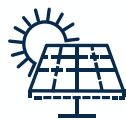


Key Results and Future Outlook of Auctions

KEY RESULTS OF COMPLETED AUCTIONS



Total awarded capacity in GEA2 increased to 3,440 from c. 1,967 in GEA1 presenting RE developers with a **promising landscape for large-scale projects**



Diversification of technologies to expand on floating solar and onshore wind **create new investment avenues that meet different geographical and operational needs**



Regional growth opportunities drive RE expansion in the Philippines, with other regions emerging as a promising market for additional investments

FORTHCOMING AUCTIONS

	GEA1	GEA2	GEA3	GEA4	GEA5
Auction Date	Jun 2022	Jul 2023	Q4 2024 to Q1 2025	[2025]	[2025]
Auctioned Capacity (MW)	2,000	11,600	4,475	8,400	[3,000-6,000]
Awarded (MW)	1,967	3,441			
Technology	- Ground-mounted solar - Onshore wind - Hydropower - Biomass	- Ground-mounted solar - Rooftop solar - Floating solar - Onshore wind	- Impounding hydro (a) - Pumped-storage hydro (b) - ROR hydro (c) - Geothermal (d)	- Unsubscribed capacities of GEA2 - IRESS (renewable + storage) - LNG	Offshore wind
Key Requirements	i) Proof of financial capability ii) Service contract	i) Letter of Interest through EVOSS	Developer's performance or non-performance vis a vis service contract commitments/timelines to be considered for qualification ¹		
Delivery Periods	2024	2024-2026	2028-2030 for a & b 2026-2028 for c 2024-2030 for d	[TBD]	[TBD]
Bid Bond	PHP 1m/MW (USD 18k/MW)				
Performance Bond²	20% of total project cost (TPC)	20%-30% of TPC, if cash/MC or surety bond/SBLC	[Lower performance bond requirements are currently being lobbied and discussed]		
GEAR Price (PHP/kWh)	3.7 (solar) to 6.1 (wind)	4.4 (solar) to 6.3 (biomass)	[TBD]	[TBD]	10 (fixed) ³ to 15 (floating)

Index Partners helps maximize value for clients in the Green Energy Auction Program

Our services

How Index Partners can help



Offtake Advisory

- **Tender Assistance:** Provide full support in preparing and submitting bids for upcoming GEAP rounds, increasing chances of securing long-term PPAs.
- **Case Study Insights:** Provide detailed analysis of past GEAP rounds, including capacity, winners, and pricing per technology to inform decision-making.
- **Securing PPAs:** Guide developers through the process of securing Power Purchase Agreements (PPAs) with various off-takers, ensuring stable, long-term revenues.



Strategic Partnerships

- **Partner Screening:** Identify and connect developers with strategic partners to create synergies and enhance the value of renewable energy ventures.
- **Joint Venture Structuring:** Index Partners facilitates joint ventures with local and international players, optimizing risk-sharing and operational success for GEAP projects.
- **Strategic Advisory:** Additional value-added guidance to ensure success of the JV going forward.



Capital Raising

- **Debt and Equity Capital Raising:** Connect developers with global and local investors to raise capital for GEAP projects, ensuring tailored financing solutions.
- **Project Structuring:** Design optimal financial structures to make projects bankable, reducing risks for both lenders and investors.

CONTACT US

General enquiries: contact@index-partners.com

Vietnam

15 Le Thanh Ton, Ben Nghe,
District 1, Ho Chi Minh City

Philippines

21F 8Rockwell Bldg,
Rockwell Center, Makati City,

Hong Kong

18B, 235 Wing Lok Street Trade Centre,
Sheung Wan, Hong Kong

United Kingdom

Paddington Central,
2 Kingdom St, 6F, London

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