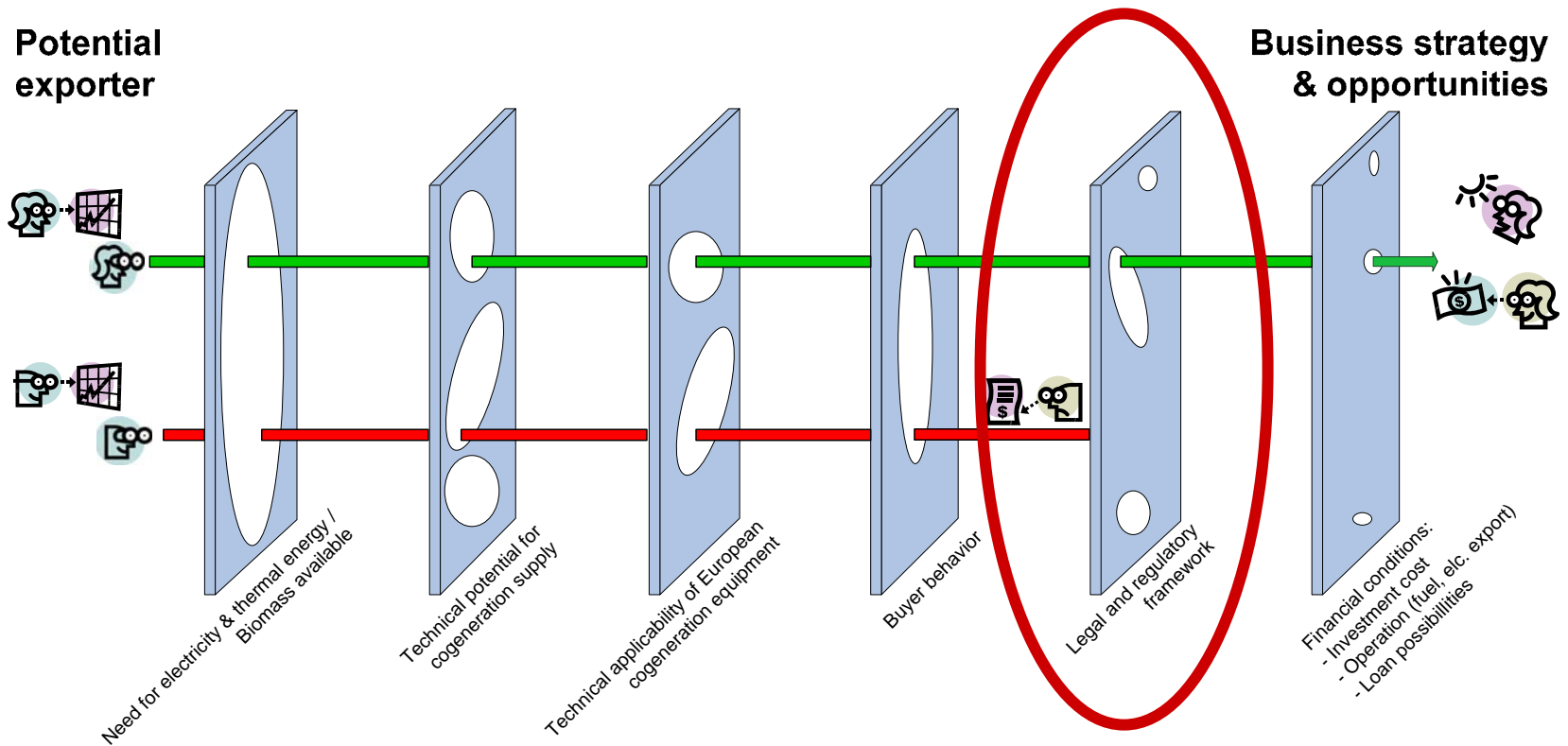




“Legal and Regulatory Issues”

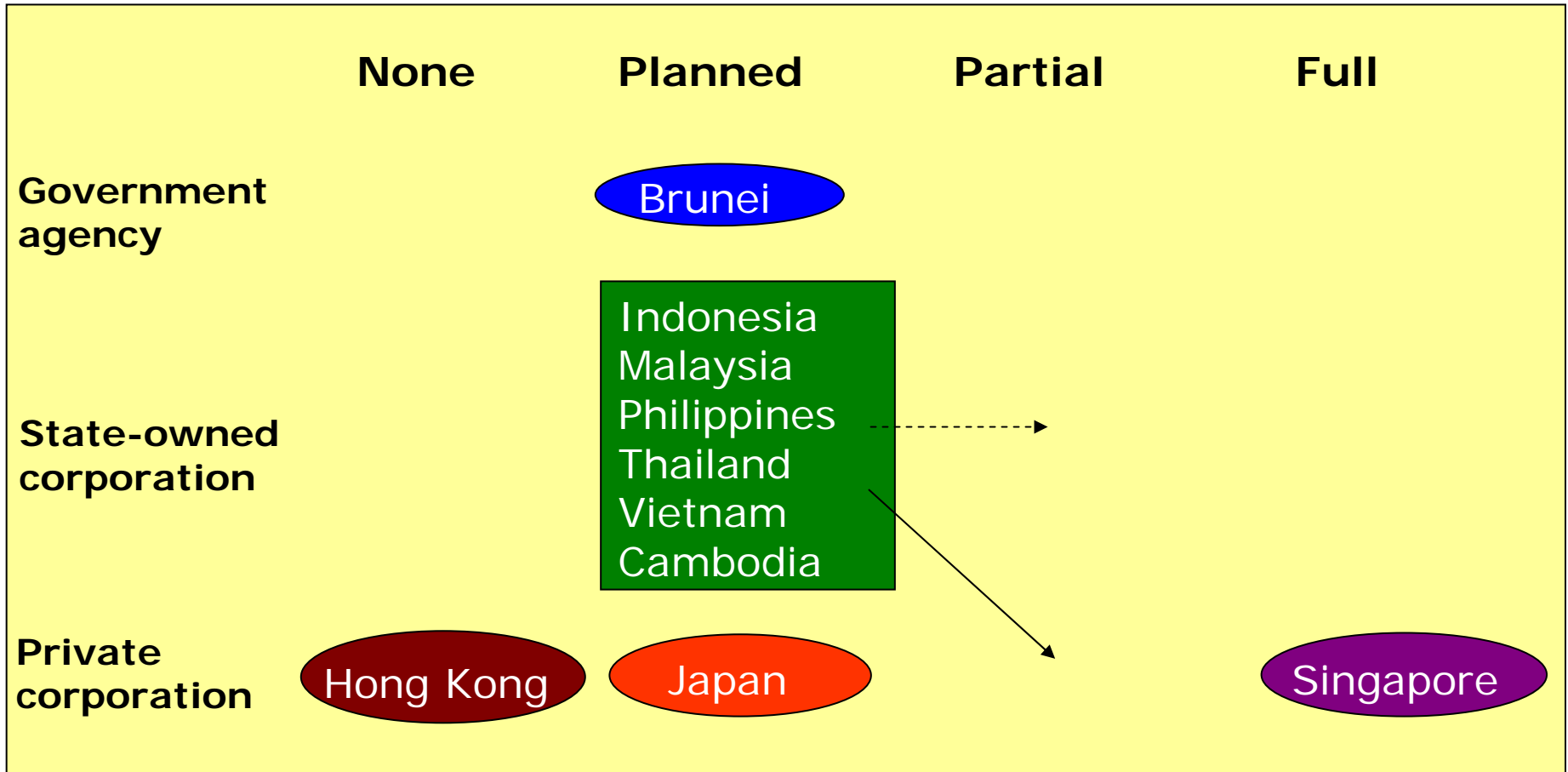


Business potential related to regulatory framework?





ASEAN - Electricity Sector Reform





ASEAN – Policy Overview

	Cogeneration Policy	Biomass policy	Fossil Fuel Policy	Small Producer Policy
Vietnam	No	No	Yes	No
Singapore	No	No	Yes	No
Cambodia	No	No	No	No
Philippines	No	Yes	Yes	Yes
Thailand	No	Yes	Yes	Yes
Malaysia	No	Yes	Yes	Yes
Laos	No	No	No	No
Indonesia	No	Yes	Yes	Yes



Cogeneration Policy in ASEAN

- ◆ Huge difference between development state of the Electricity Supply Industry in ASEAN Countries – fossil fuels predominant
- ◆ "Cogeneration Policies" differ from Country to Country
- ◆ "Cogeneration Policy" is part of National Energy Policy, which is often scattered between different agencies
- ◆ Only Thailand has directly supported cogeneration in the 1990-ties SPP program – other countries only indirectly support



Thailand – SPP Program in 1990ies

Regulation on Power Purchase

- Cogeneration & Renewable
 - Cogen: efficiency >45% and steam >10%
 - Renewable: may use up to 25% commercial energy
- Direct sale to industrial estates near the power plants
- Sale to the transmission system at maximum 60 MW (90 MW on case by case)
- Minimum energy purchase guarantee by EGAT not less than 80% per year





Cogeneration plants in Thailand – January 2004

Type of SPPs	Exported to the grid	
	No.	MW
1. Cogeneration SPPs		
Natural Gas	19	1,413
Fuel Oil	1	9
Coal	4	196
Non-Conventional Fuels + Coal	3	190
Waste Gas	1	45
2. Renewable SPPs		
Non-Conventional Fuels (bagasse, rice husk, wood waste)	33	276
Total	61	2,129



For more information

- mail to: par.jonsson@carlbro.se
 - or visit COGEN 3 website at
<http://www.cogen3.net>

Thank You !

