

# State of the Art GPC in Indonesia

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Net Energy

# What is the GPC?

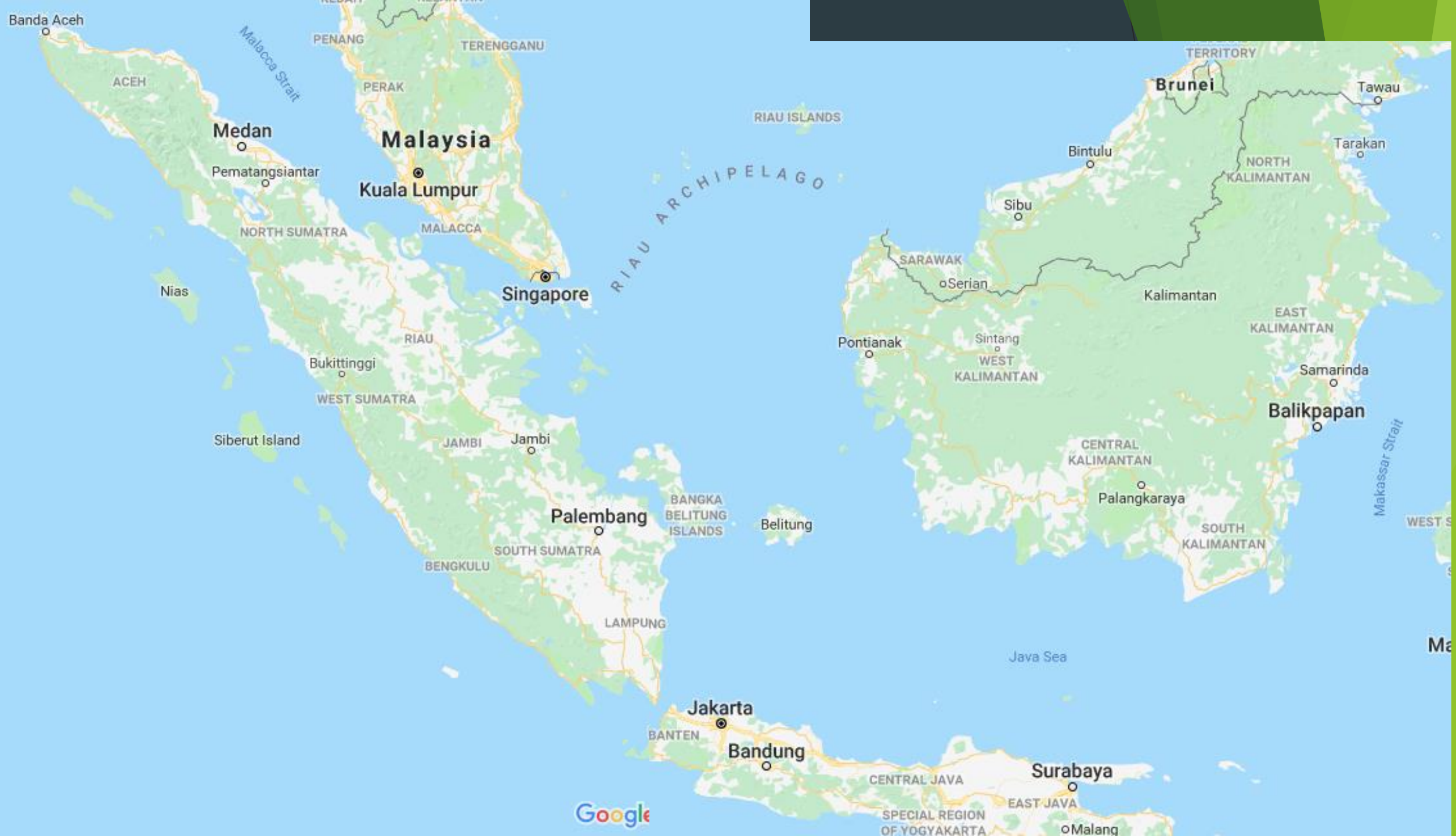
- ▶ Global Protocol for Community-Scale Greenhouse Gas Emission Inventories
- ▶ Developed by World Resources Institute, C40 and ICLEI - Local Governments for Sustainability
- ▶ Piloted in 34 cities, including Georgetown and Iskandar
- ▶ Released in 2014

# How do the GPC and GCoM align?

Sector	GPC	GCoM
Stationary energy	BASIC	Required
Transportation	BASIC	Required
Waste	BASIC	Required
IPPU	BASIC+	If significant
AFOLU	BASIC+	If significant

# Previous emissions analyses in Indonesia

- ▶ GIZ Policy Advice on Environment and Climate Change (PAKLIM)
- ▶ EU Urban Low Emissions Development Strategies (LEDS)
- ▶ AFD/DFID Energy and Climate Action Plan (ECAP)
- ▶ WWF One Planet Climate Challenge (OPCC)
- ▶ Independent work using IPCC guidelines



# Learnings from earlier work in Indonesia

## Stationary energy - electricity and other fuels

- ▶ Required:
  - ▶ Institutional buildings and facilities
  - ▶ Residential buildings
  - ▶ Commercial buildings and facilities
  - ▶ Industry
- ▶ Best practice:
  - ▶ Municipal buildings
  - ▶ Public lighting
- ▶ Energy generation also required but not part of inventory





# Learnings from earlier work in Indonesia

## Transportation

- ▶ Required:
  - ▶ On-road
  - ▶ Rail
  - ▶ Waterborne navigation
  - ▶ Aviation
  - ▶ Off-road
- ▶ Best practice:
  - ▶ Municipal fleet
  - ▶ Public transport
  - ▶ Private vehicles
  - ▶ Commercial vehicles



# Learnings from earlier work in Indonesia

## Waste and wastewater

- ▶ Required:
  - ▶ Generated within boundary and disposed within boundary
  - ▶ Generated within boundary and disposed outside boundary





# State of the art in Indonesia

- ▶ Data needs to be as local as possible. Cooperation from PLN, PERTAMINA and BPH Migas very important. Make friends!
- ▶ Minimal modelling. Input data generally not available.
- ▶ Maximum disaggregation. Internal data management will assist with monitoring and reporting.
- ▶ Able to support SECAP and preparation of project proposals

Terima kasih!