

# Smart Island Pilot Project (SIPP) in South Sulawesi, Indonesia

Oriental Consultants Global  
29<sup>th</sup> Oct.2024



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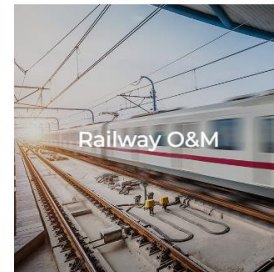
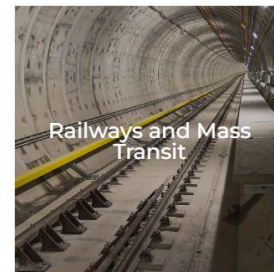
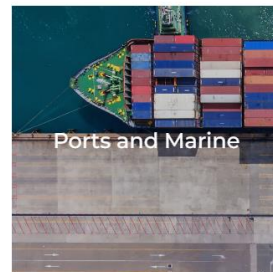
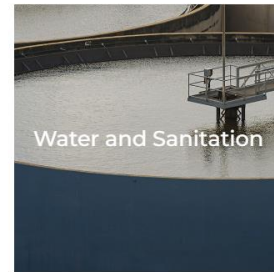
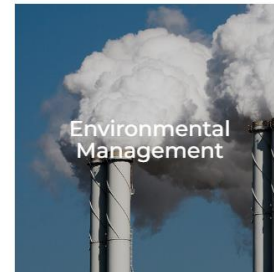
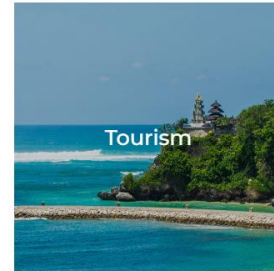
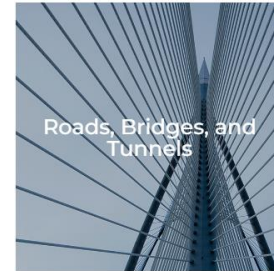
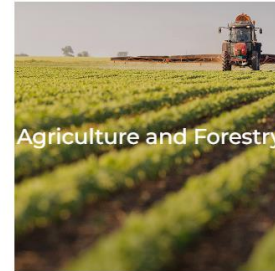
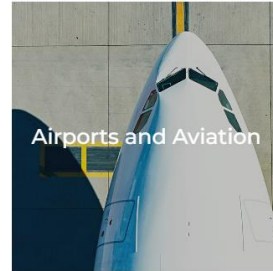
			
Years of the Establishment	Number of employees	Annual sales	Countries worked
<b>1957</b>	<b>1,155</b> <small>as of 1st of August 2022 (including Overseas Subsidiaries)</small>	<b>US\$205 mil</b> <small>(2020-21)</small>	<b>150+</b>

## Sectors

- Agriculture and Forestry
- Airports and Aviation
- Architecture
- Disaster Recovery and Resilience
- Energy and Power
- Environmental Management
- Ports and Marine
- Post-conflict Reconstruction and Peacebuilding
- Railways and Mass Transit
- Roads, Bridges and Tunnels
- Smart Cities
- Tourism
- Transportation and Logistics
- Urban and Regional Development
- Water and Sanitation
- Water Resource Management
- Railway O&M
- Renewable Energy

## Services

- Asset Management
- Capacity Building and Training
- Construction Supervision
- Design
- Design Review
- Environmental and Social Safeguards
- Feasibility Studies
- Operation and Maintenance
- Planning
- Project Formulation and Financing
- Project Management
- Studies and Investigations
- Tender Assistance





## Outline of the Study under Smart JAMP 2021



**Duration:** Aug. 2021 - Feb. 2022

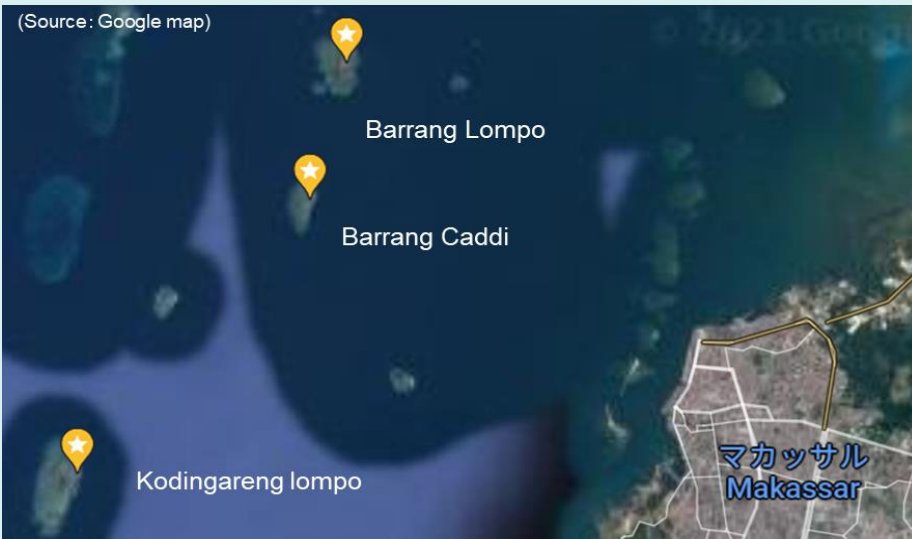
**Joint Study team:**

Hokuriku Electric Power Transmission & Distribution Company

Oriental Consultants Global (OCG)

PT. Oriental Consultants Indonesia (PT OCI)

**Target Area :** 3 islands in Makassar City

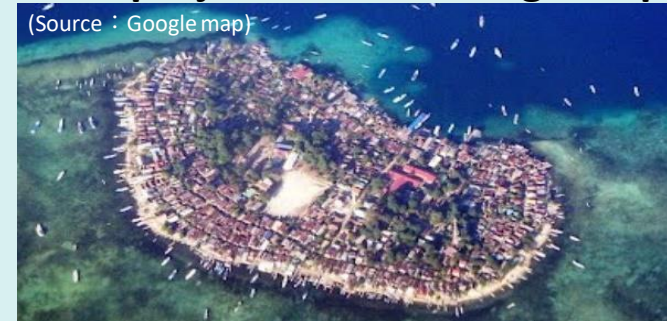


## Findings

Category	Issues / Needs	Advanced Technologies & Solutions
Electricity	<ul style="list-style-type: none"> <li>No power supply during daytime</li> </ul>	Installation of <b>photovoltaic power generation system (PV)</b>
Industry	<ul style="list-style-type: none"> <li>Development of fishing industry</li> <li>No ice making equipment</li> </ul>	Power supply for <b>cooling system Ice maker &amp; ice storage</b>

→ **Basic idea for pilot project**

**Pilot project site : Barrang Lompo Island, Indonesia**



- Population 5,000
- 15 km from Makassar
- 30 minutes by boat

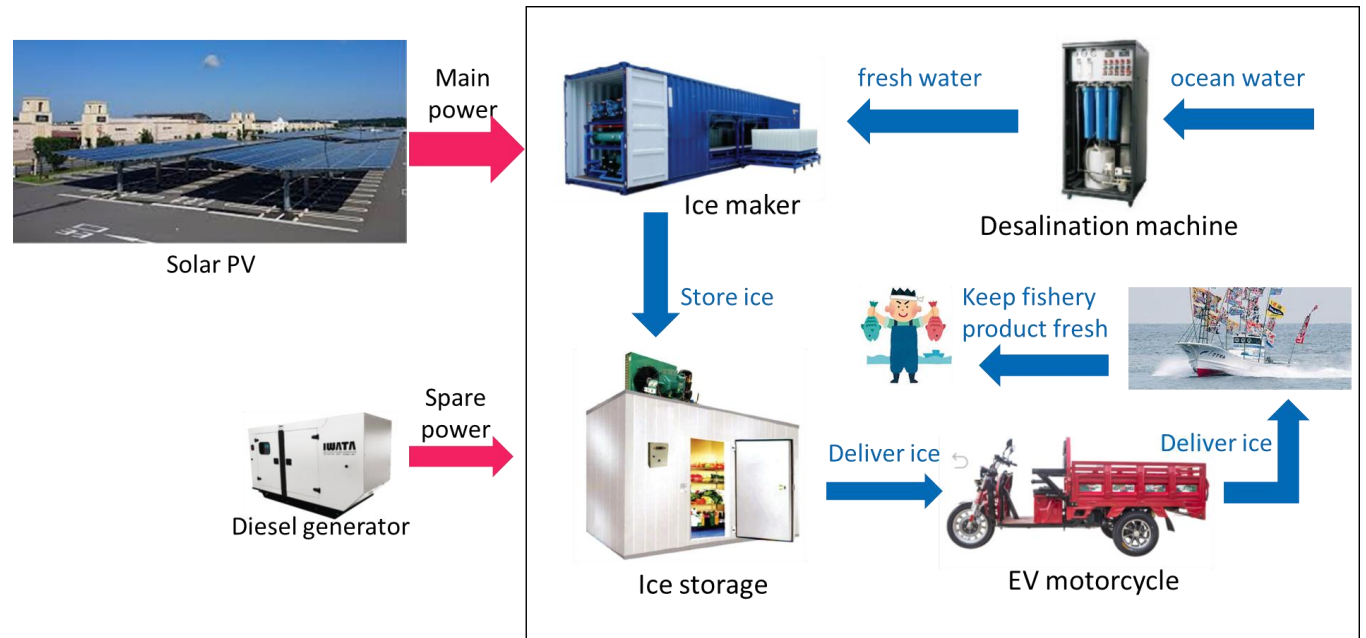
## Business Objectives

- To build a **cold chain system using solar PV** in remote islands with no daytime electricity.
- The system will improve the fish quality and will **upgrade the fishery industry on the remote islands.**

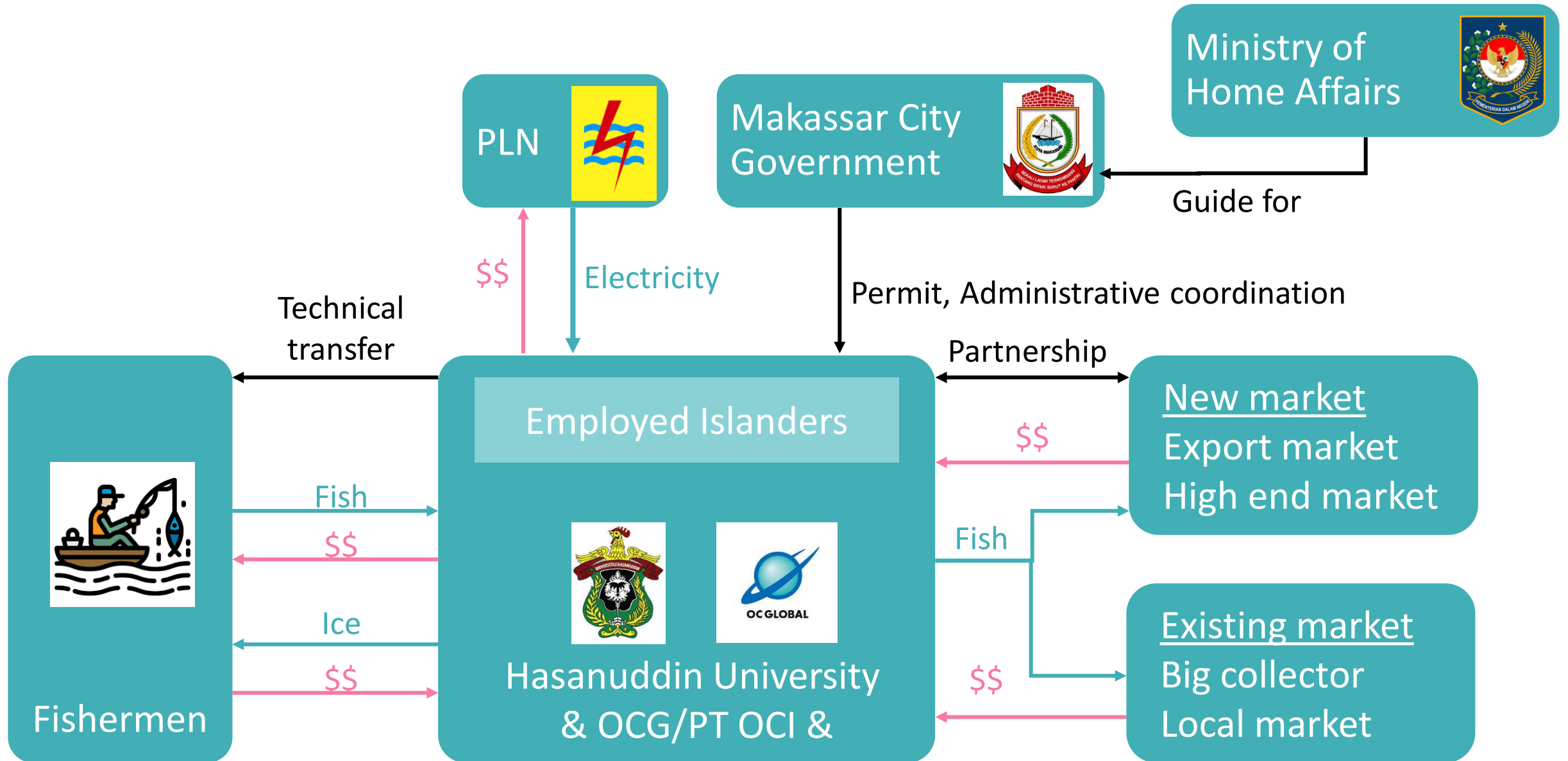
## Business

- 1. Power generation**  
PV + DG during the day, PLN power at night  
For the time being, for private consumption
- 2. Ice making**  
Selling ice to fishermen
- 3. Fisheries**  
Target: Export fish  
(grouper, sea bream, mackerel, octopus, squid)  
For the time being, the company will sell to the existing market and gradually build a sales channel to the high-end market.

## Cold Chain System using Solar PV



# Pilot Project Scheme





Sales Trial



Distribution Trial



	<ul style="list-style-type: none"> <li>•Launch pilot project in a <b>part of an island</b></li> </ul>	<ul style="list-style-type: none"> <li>•Expand project scope to <b>whole an island</b></li> </ul>	<ul style="list-style-type: none"> <li>•Expand region to <b>South Sulawesi Province</b></li> </ul>	<ul style="list-style-type: none"> <li>•Expand region to <b>Eastern Indonesia</b></li> <li>•Expansion of business scale</li> </ul>	<ul style="list-style-type: none"> <li>•Go for IPO</li> </ul>
	<b>Phase 1</b>	<b>Phase 2</b>	<b>Phase 3</b>	<b>Phase 4</b>	<b>Phase 5</b>
	2024-	2026-	2028-	2029 -	2035-
# of Locations	1 (Part of Island)	1 (Whole Island)	5-10	15-20	50-60
Business entity	PT OCI	SPC			IPO
Fund	OCG+1	JICA/JOIN/ESG Fund			

**To decide whether to go on to Phase 2.**

## Indonesia's Goal

## Contribution from this project

### Decarbonization

#### Carbon neutral in 2060

Cf. Long-Term Strategy for Low Carbon and Climate Resilience 2050 (Indonesia LTS-LCCR 2050)(Republic of Indonesia, Jul.2021)



**GHG emission reduction** by  
Installation of Renewable Energy &  
Disuse of Diesel boat for Ice  
transportation

### Energy mix

#### Renewable energy rate rise from **3% in 2022** to **44% in 2030**

Cf. Comprehensive Investment and Policy Plan(Just Energy Transition Partnership (JETP), Nov.2023)



**Adopting Solar PV**  
**24 hrs Electrification** (future plan)

### Economic Development

#### Rising the income until the level of developed countries by **2045** as **100<sup>th</sup>** anniversary of founding of the nation

Cf. National Long-Term Development Plan (RPJPN 2025-2045)(Menara Bappenas, Jun. 2023)



Improving the income of fisherman  
Encouraging the fishery business



# Thank you

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