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KEMENTERIAN ENERGI  
& SUMBER DAYA MINERAL

# CLEAN ENERGY CENTER OF EXCELLENCE

William Sabandar

Chief of National Task Force on Accelerated Development of Renewable Energy

Jakarta, 8 October 2015



## OBJECTIVE

- Ensure universal **access** to modern energy services.
- Double the global rate of improvement in **energy efficiency**.
- Double the **share** of **renewable energy** in the global energy mix.

## HOW WE CAN ACHIVE IT

**Cooperation** with **all** international **energy institution**

Promoting a **transparent** and **competitive** energy **investment market**

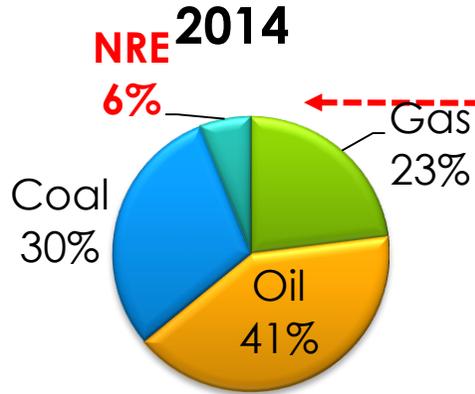
Framework and mechanisms for **energy technology transfer energy** from developed countries to developing countries



This mechanism will help to accelerate the realization of justice the world's energy

17% increase of new & renewable energy (NRE) in 11 years

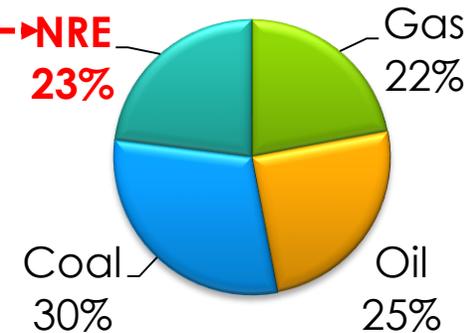
### National Energy Mix



Indonesia NRE potential could reach more than 200.000 MW.

Today, Indonesia has just use 6.8% of the total NRE Potential.

### National Energy Mix Target 2025



| NO | NEW & RENEWABLE ENERGY | RESOURCES                    | INSTALLED CAPACITY (IC)  | RATIO OF IC/RESOURCES (%) |
|----|------------------------|------------------------------|--------------------------|---------------------------|
| 1  | 2                      | 3                            | 4                        | 5 = 4/3                   |
| 1  | Hydro                  | 75,000 MW                    | 7,572 MW                 | 10.1 %                    |
| 2  | Geothermal             | 28,910 MW                    | 1,403.5 MW               | 4.9 %                     |
| 3  | Biomass                | 32,654 MW                    | 1,717.9 MW               | 5.4 %                     |
| 4  | Solar                  | 4.80 kWh/m <sup>2</sup> /day | 48.05 MW                 | -                         |
| 5  | Wind                   | 3 – 6 m/s                    | 1.87 MW                  | -                         |
| 6  | Ocean                  | 49 GW <sup>***)</sup>        | 0.01 MW <sup>****)</sup> | -                         |
| 7  | Uranium                | 3,000 MW <sup>*)</sup>       | 30 MW <sup>**)</sup>     | -                         |

\*) Only in Kalan – West Borneo

\*\*\*) As a center of research, non-energy

\*\*\*) Source: National Energy Council

\*\*\*\*) BPPT's Prototype





# BALI AS A NATIONAL AREA FOR CLEAN ENERGY

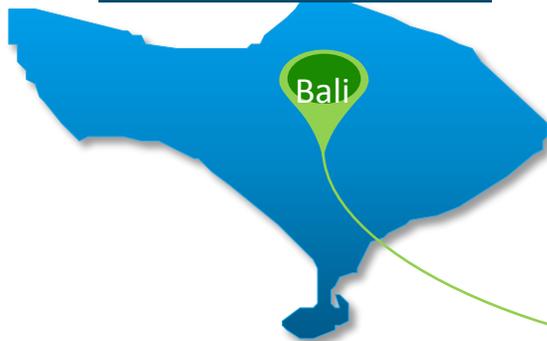
Some clean energy initiatives in place



Tourist destination



Sizeable island



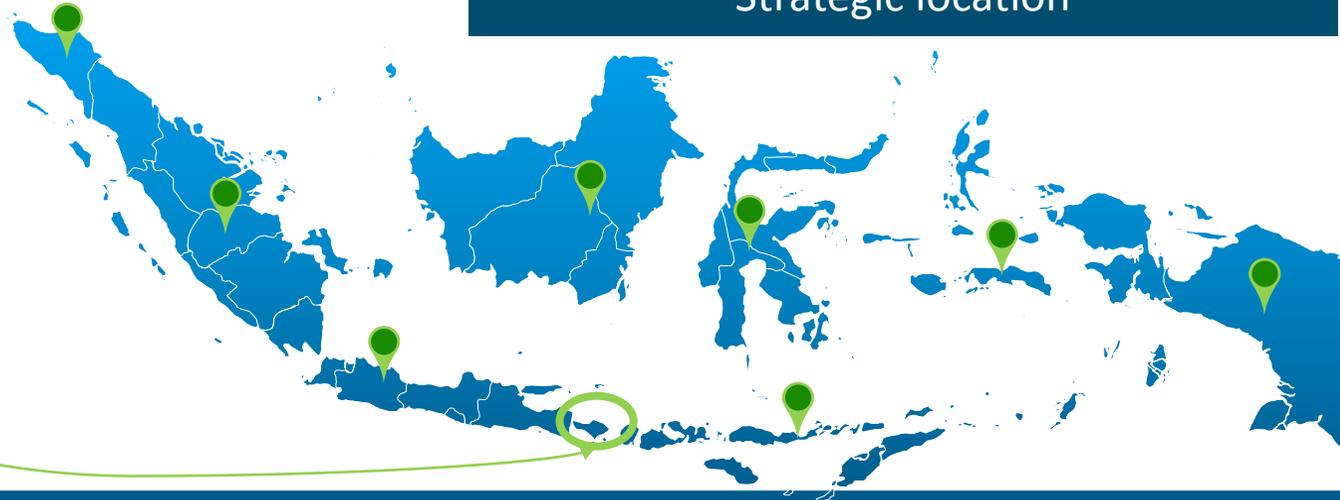
Why BALI?

Strong commitment from local government and community

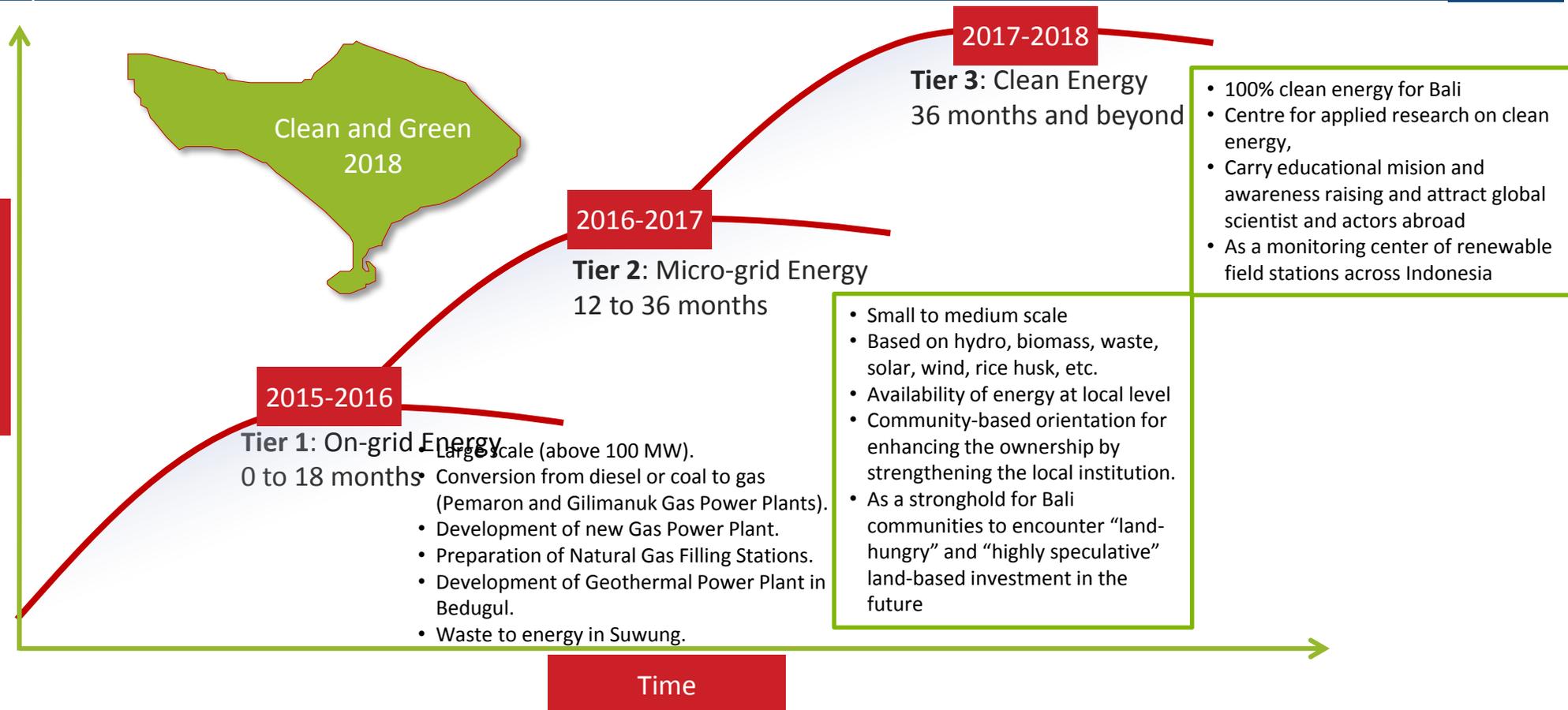
2013-2018 Governor and Vice Governor Vision and Mission - ***Bali Clean and Green***



Strategic location



# BALI CLEAN ENERGY DEVELOPMENT FRAMEWORK: THREE-TIER APPROACH



## Enabling Conditions:

- Management of data and information.
- Regulatory framework at national level: incentives; subsidies; gas supply; PPP regulations; financing; etc.
- Regulatory framework at local level, Bali Spatial Plan, infrastructure planning, and licensing (LULUCF).
- Communication strategi and campaign at local level.

## SOLAR



## MICROHYDRO



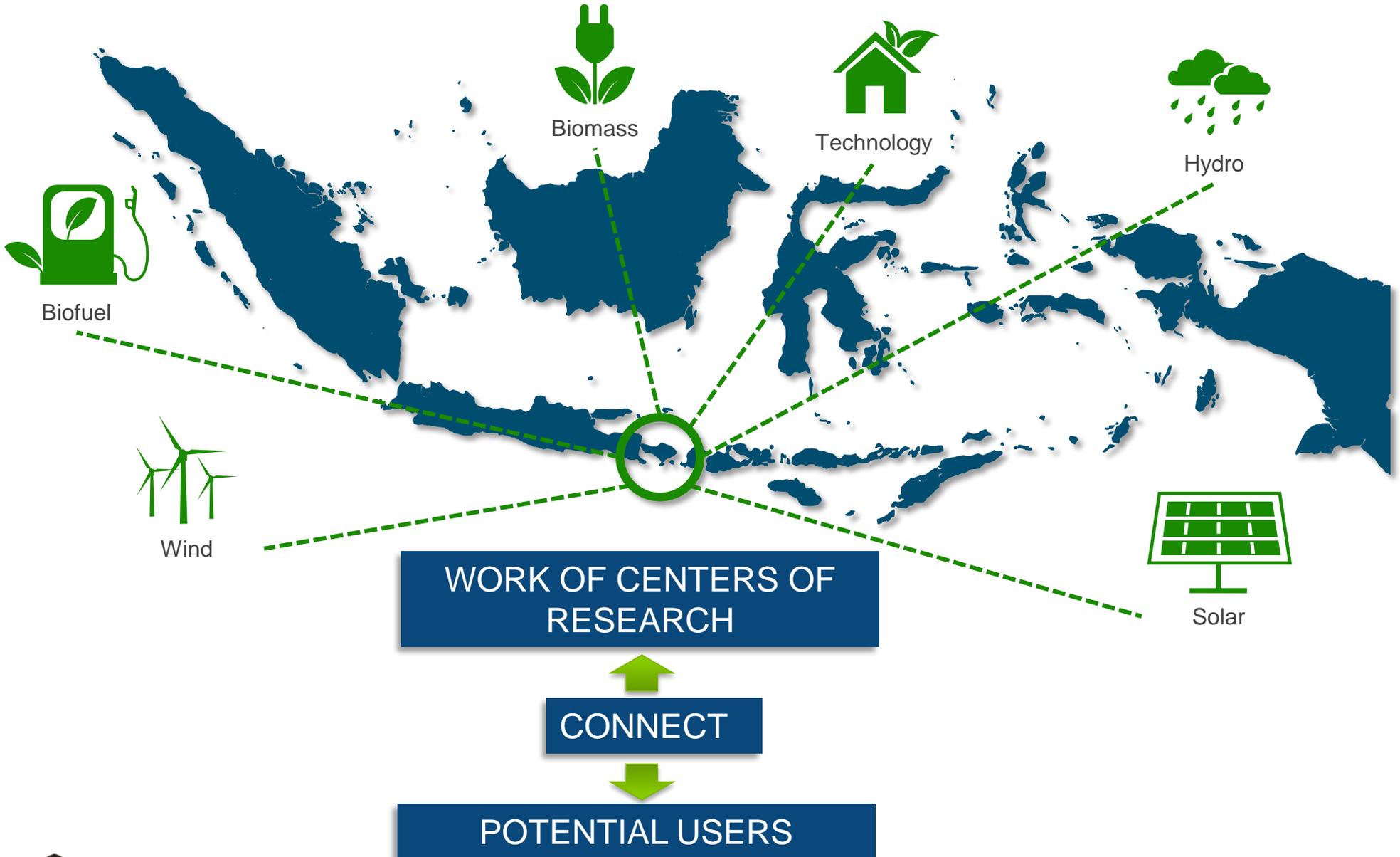
## WASTE TO ELECTRICITY



## BIOGAS

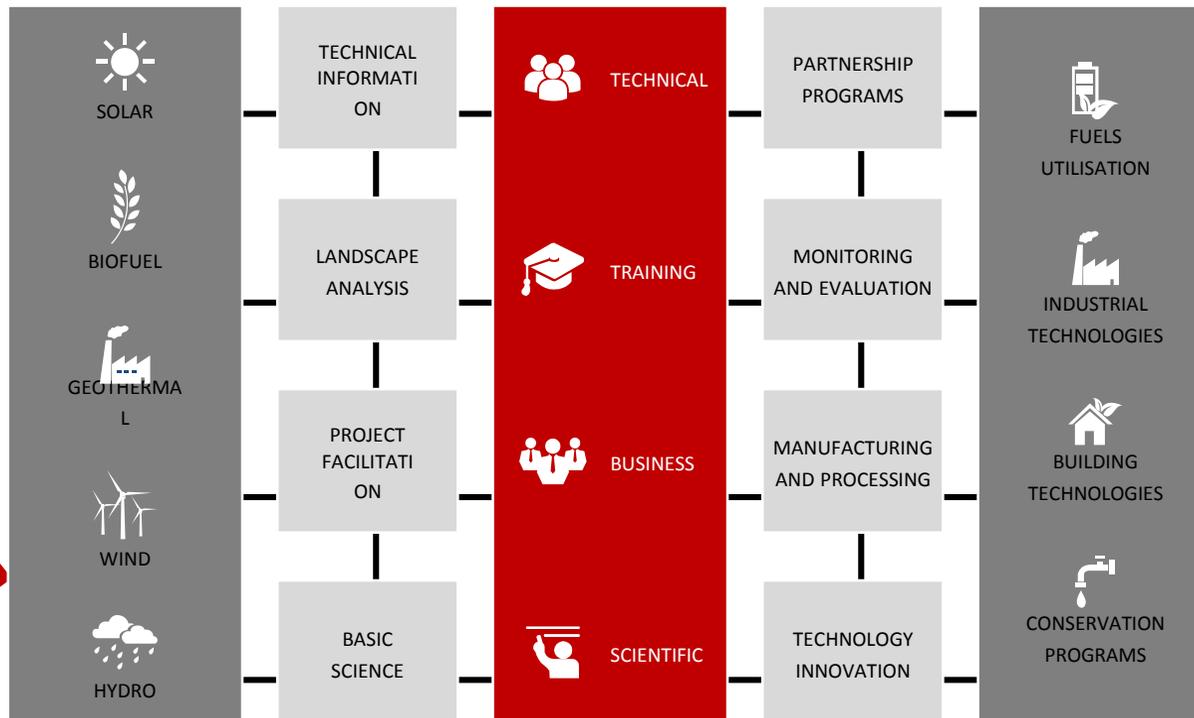


# FROM BALI TO ALL REGIONS: SPREADING CLEAN ENERGY KNOW HOW



The Centre's **mission** will be to jointly **lead** the **nation** toward a **resilient energy** future by **assisting** in the **application** of **renewable energy technologies**, **facilitating** their **deployment** nation-wide, and advancing related **scientific research** and **knowledge development**.

- **Coordination** center for the development of NRE technology;
- **Facilitation** of technology **implementation** at local and industrial level;
- **Enhancing** energy efficiency and conservation; and
- **Boost knowledge** on NRE research and development



#### Knowledge Support

- Technical Information
- Landscape Analysis
- Project Facilitation
- Basic Knowledge

#### Support Team

- Technical
- Training
- Business
- Knowledge

#### Implementation Support

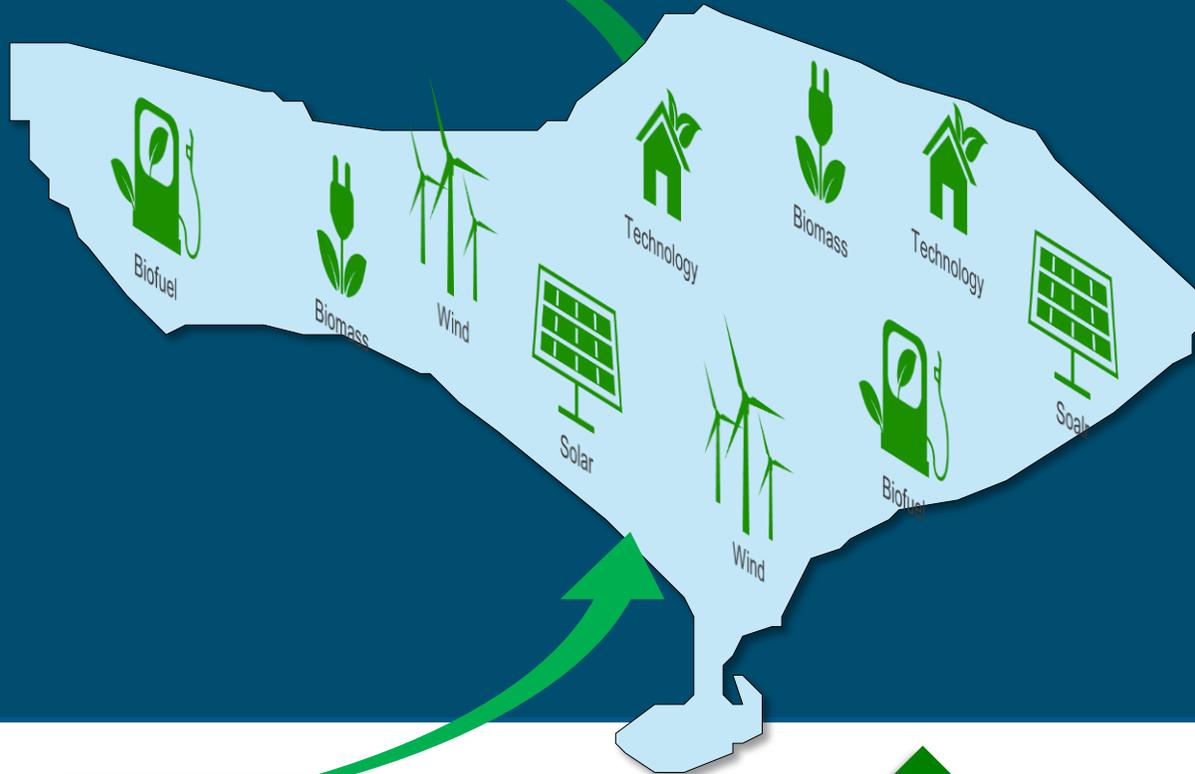
- Partnership Program
- Monitoring and Evaluation
- Manufacture and Processing
- Technology Innovation

# BALI CENTRE OF EXCELLENCE – SUPPORTS YOUR NEED

- Center of Excellence (CoE) for Indonesia’s clean and renewable energy;
- PPP approach
- Located in **East Bali** in a 30 ha areal land;
- Bali will become a global attraction as an example of clean energy island; and
- **Welcome partnership** with the international community, private sector and global citizens



Centre of Excellence



**NATIONAL**

**INTERNATIONAL PARTNERS AND INSTITUTIONS**

**PUBLIC AND PRIVATE ENTITIES**





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# THANK YOU

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