

# Innovation Works 4 U: Powering Inclusive Energy Through Innovation

Asia Clean Energy Forum 2026  
10 June 2026 | ADB Headquarters in Manila

**Engr. NIÑALIZA H. ESCORIAL**  
Deputy Executive Director and OIC, DOST-PCIEERD



Global annual electricity consumption growth accelerated to 4.3% in 2024, up from 2.5% in 2023, the International Energy Agency said March 24.

The International Energy Agency (IEA) expects average electricity demand worldwide to grow by more than 3.5% a year through this decade, driven by industry, AI data centers, air conditioning, and electric vehicles.

Source:

(1) <https://www.spglobal.com/energy/en/news-research/latest-news/energy-transition/032425-global-power-demand-growth-accelerates-to-43-in-2024-renewables-gas-lead-supply-gains-iaa>

(2) <https://www.instituteforenergyresearch.org/the-grid/global-electricity-demand-is-projected-to-grow-over-3-5-annually-through-this-decade/>



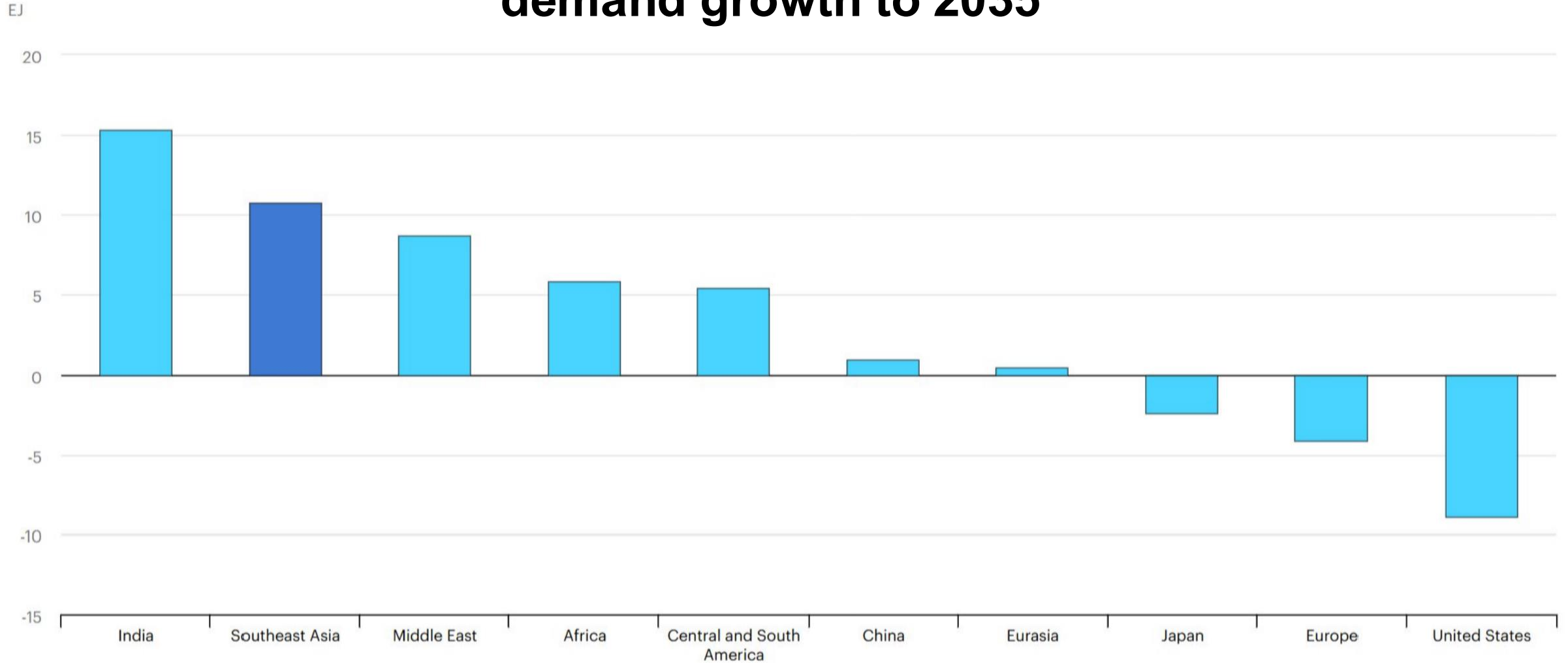
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# SEA will account for over 25% of global energy demand growth to 2035



Source: Southeast Asia Energy Outlook 2024



# PH Emissions Reality



**239.02** metric tons

**0.50%** of the world's  
total emissions

Source: Climate Watch (2023)



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# Philippine Energy Mix (2024)

42%  
coal



15%  
natural gas



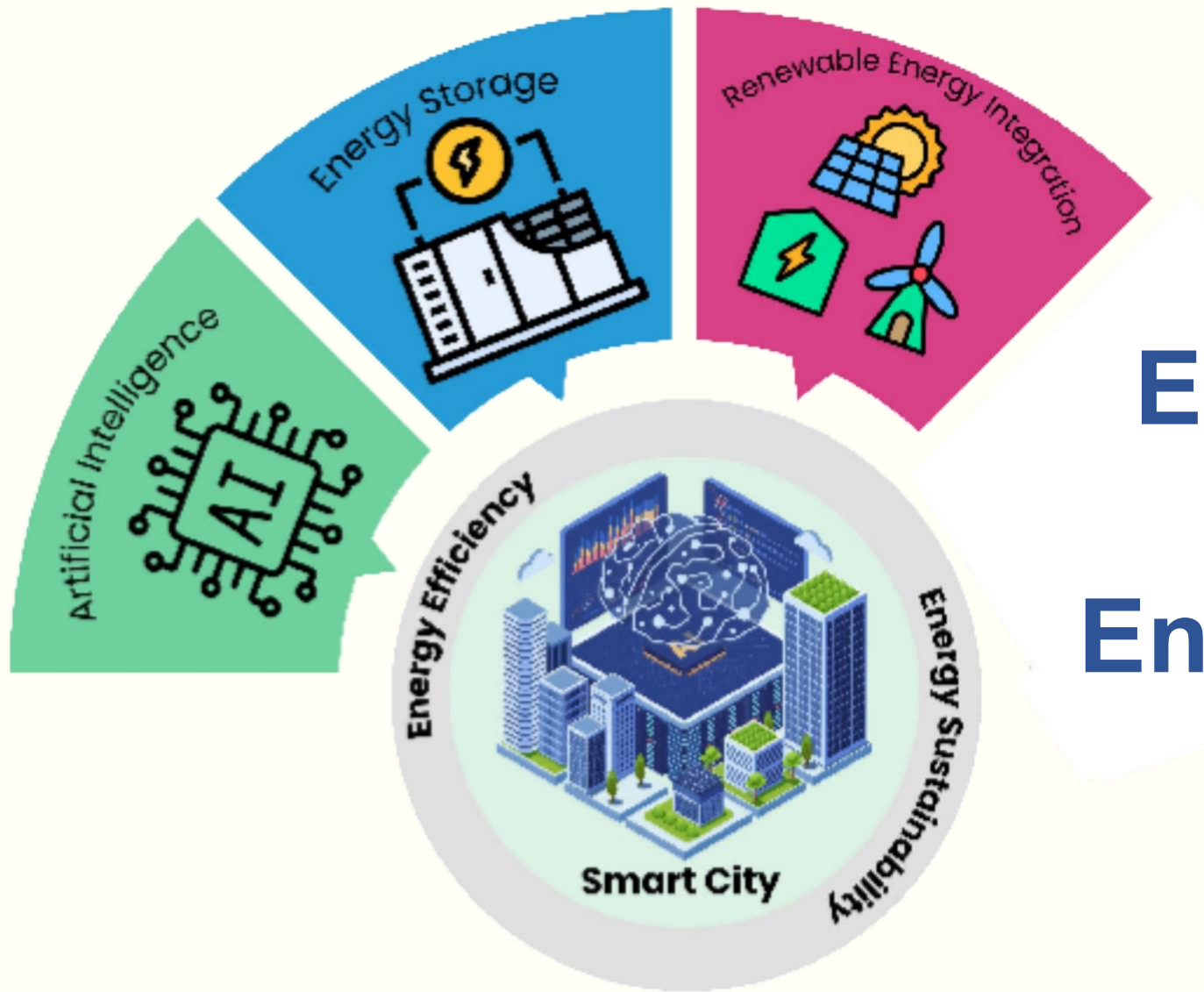
11%  
oil-based



32%  
renewable



Source:  
DOE Power Statistics as of 2024 - Posted  
DOE List of Existing Plants as of June 2025 (preliminary data)  
NGCP Daily Operations Report



**Energy-Smart  
=  
Energy Efficient**



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# Who is DOST-PCIEERD?



The **Philippine Council for Industry, Energy, and Emerging Technology Research and Development (PCIEERD)** is one of the three sectoral planning councils of the Department of Science and Technology (DOST).

## Our Mandate



Support for Research  
and Development



Human Resource and  
Institution Development



S&T Information  
Dissemination and  
Promotion



Support for Technology  
Transfer and  
Commercialization



Policy Development  
and Advocacy



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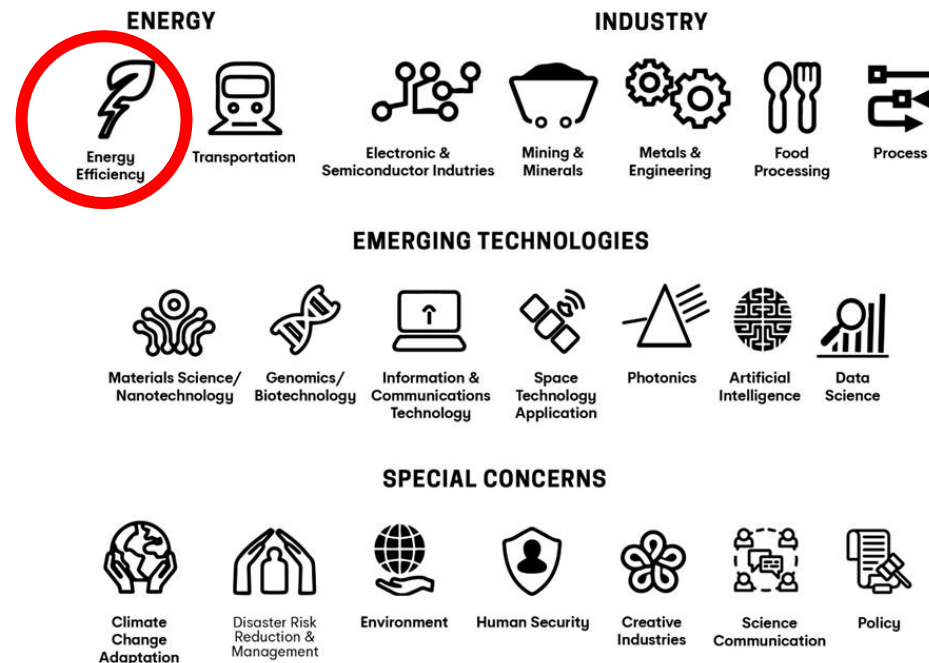
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## R&D Priorities



# Developing Capabilities for R&D

## Building R&D Capability

## Actual R&D Activities

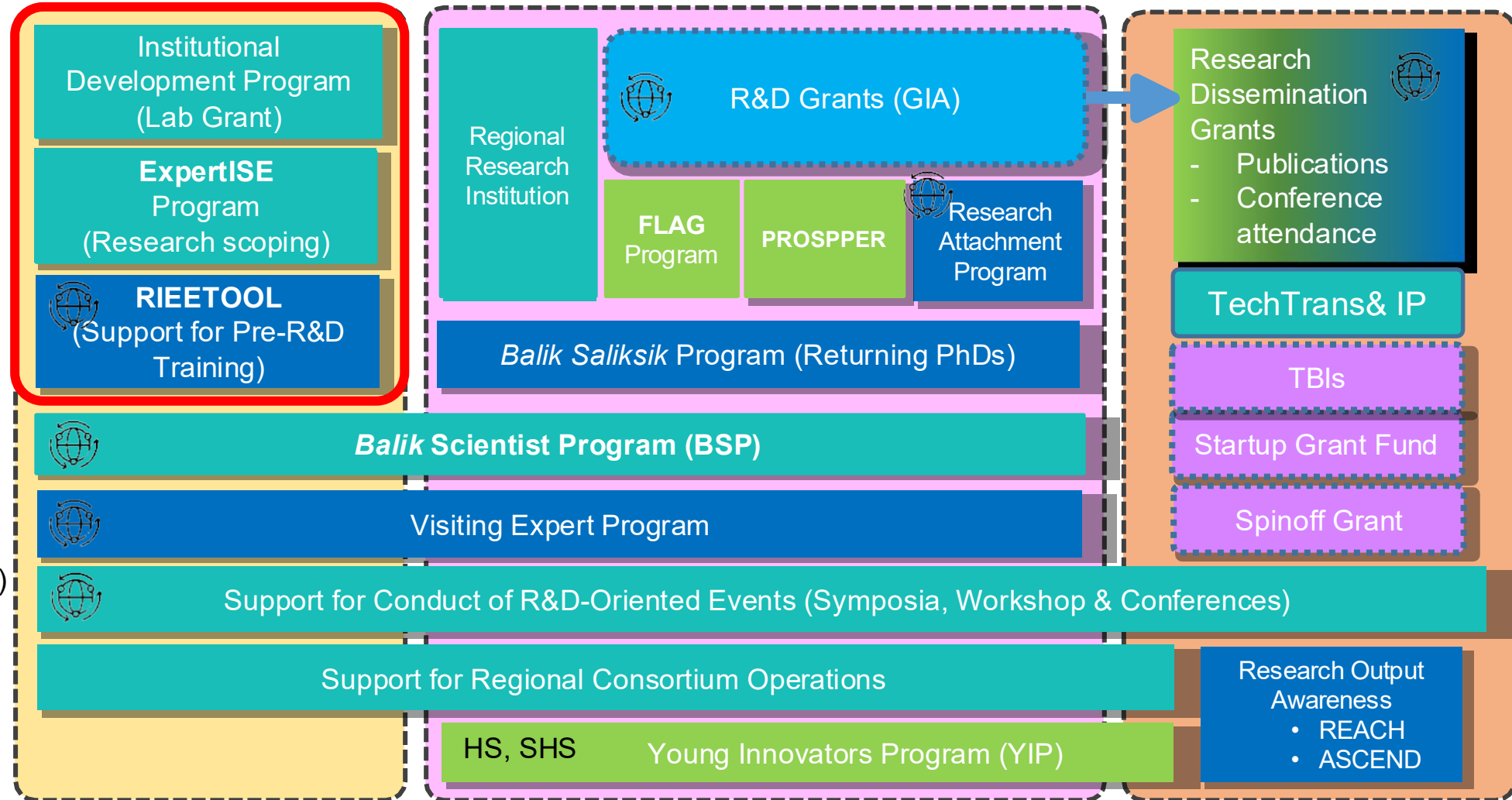
## Post-R&D Support

Open to:

- Undergraduate
- Graduate
- Postgraduate
- University & RDI-based Researches

Key actors:

-  Students
-  Researchers/Academics
-  Institutions (HEIs and RDIs)
-  Startups/Spinoffs
-  with international partnerships



\*\*Balik" means 'Returning'

# Developing Capabilities for R&D

## Building R&D Capability

## Actual R&D Activities

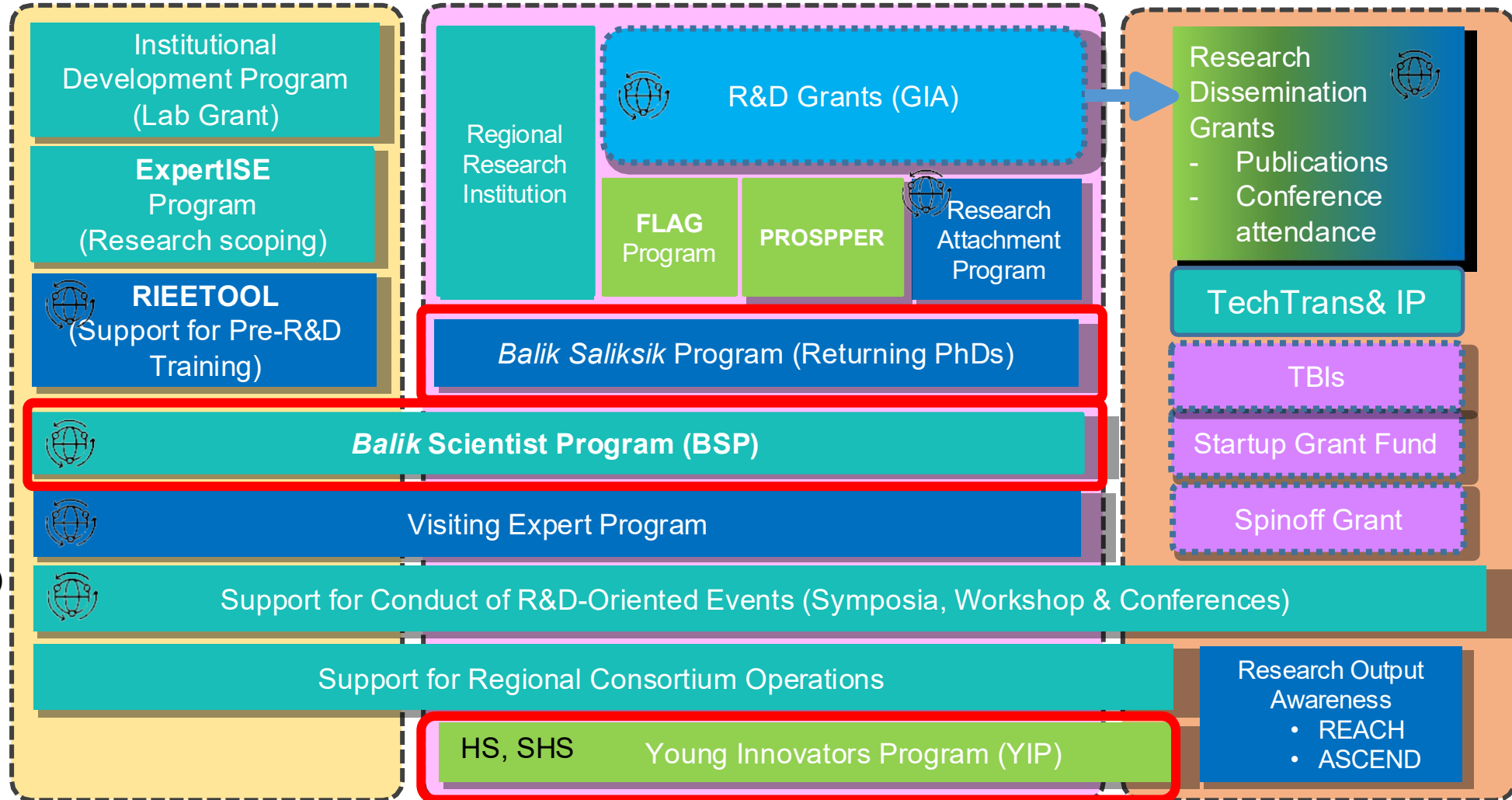
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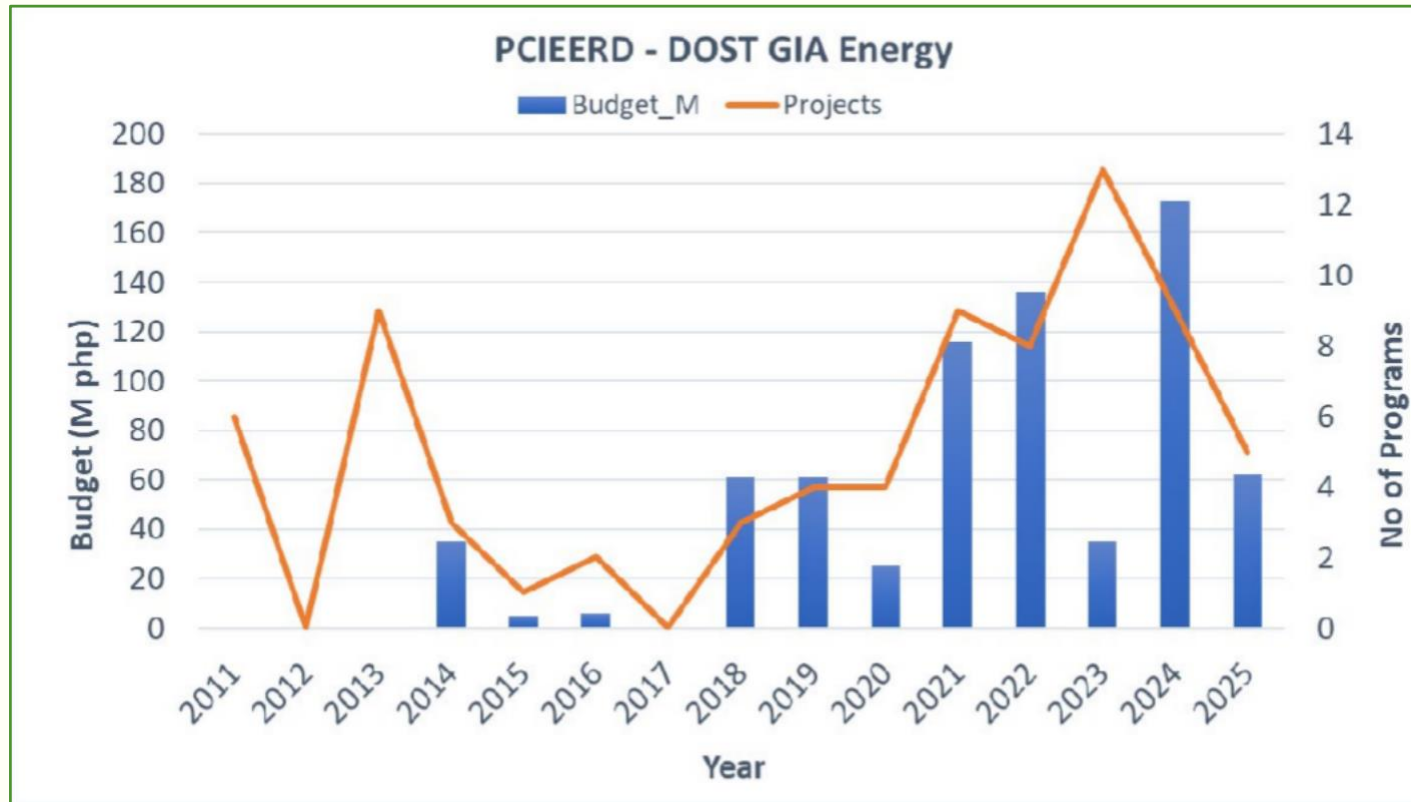
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# DOST and PCIEERD Energy R&D Investments



**Php715M**

*R&D Investments*

**76**

*Projects*



# DOST and PCIEERD Energy R&D Investments



Energy Storage



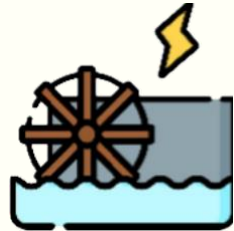
Solar R&D



Wind R&D



Ocean R&D



Micro-hydro R&D



Energy Efficiency  
and Conservation

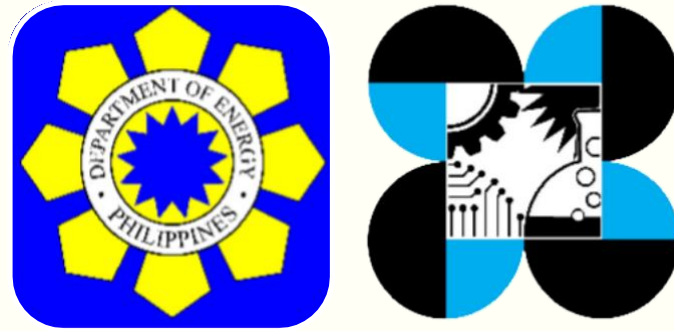


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# RESTI: DOE + DOST

The **RESTI Program** is a joint initiative of the **DOE** and **DOST-PCIEERD**, formalized in 2024 through a Memorandum of Agreement (MOA).

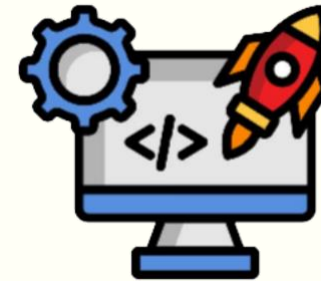


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**Research** → **Demo** → **Deployment**



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# RESTI

Academe



R&D  
Institution



Industry



Startups



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## Used Cooking Oil



## Aviation Fuel



**Advancing Sustainable Aviation Fuel in the Philippines through the Establishment of a Demo-Scale Sustainable Aviation Fuel Production Facility Utilizing Used Cooking Oil as Feedstock**

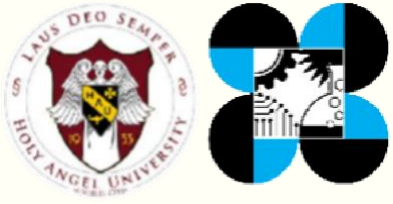


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## Home Energy Storage System (HESS)



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# RESTI Call Priorities

## Where innovation is needed

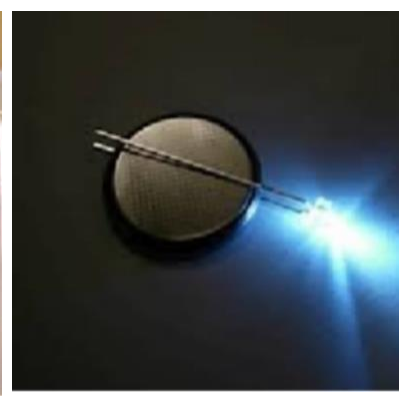
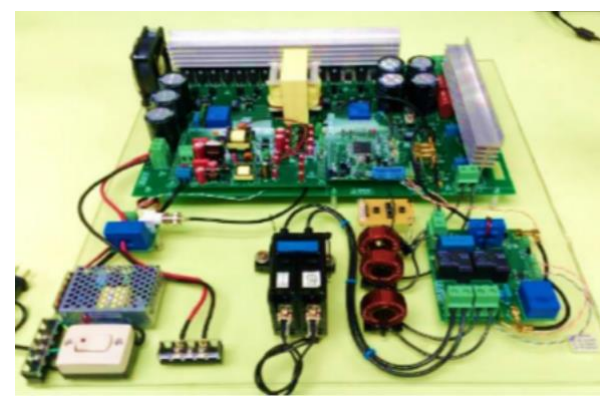
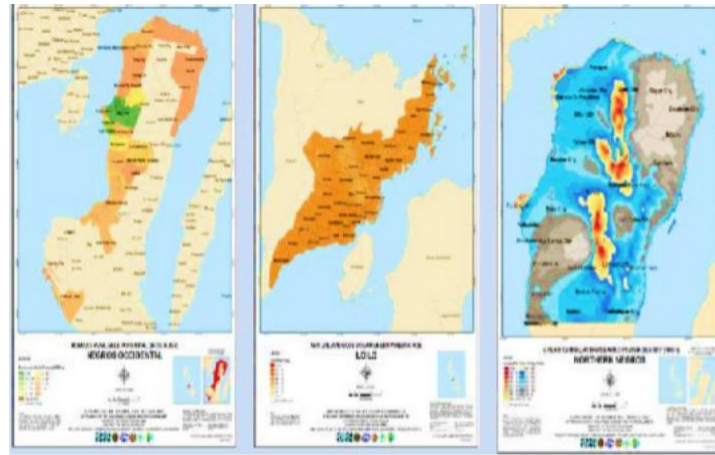
- ⚡ **Microgrids**
- 🔋 **Energy Storage**
- ♻️ **Circular energy (waste heat/materials)**
- 🚀 **Emerging technology**

Based on the FGD held on September 23, 2025, at PCIEERD



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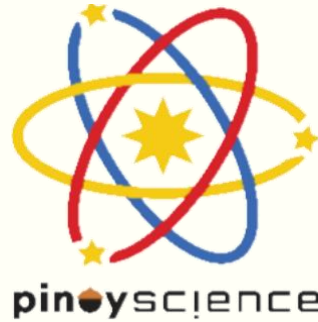


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@pinoyscience



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