

Session IV:

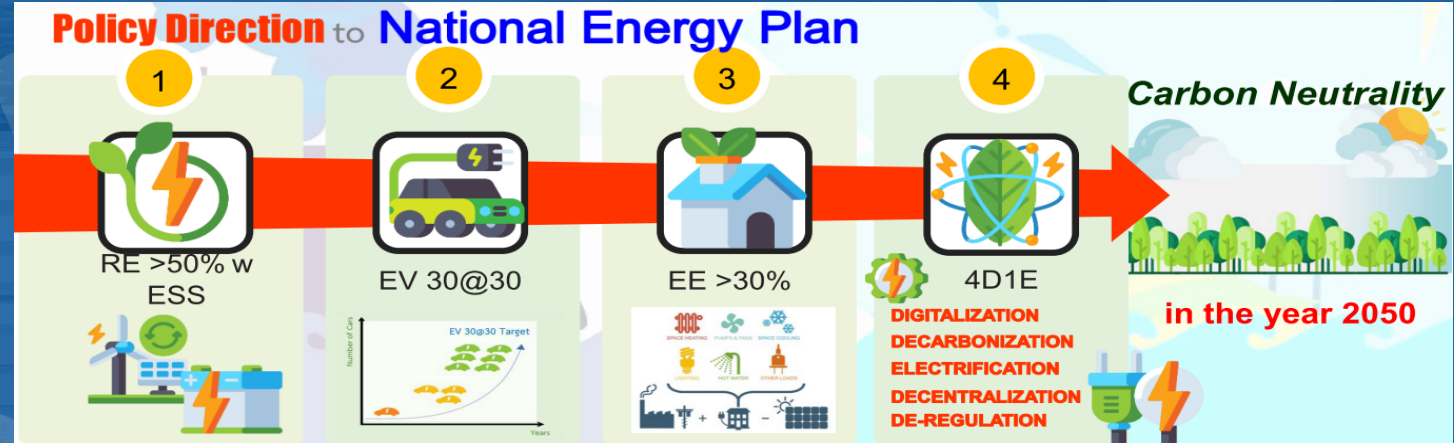
FACILITATING INNOVATIVE TECHNOLOGIES FOR ENERGY TRANSITION

## ERC Sandbox

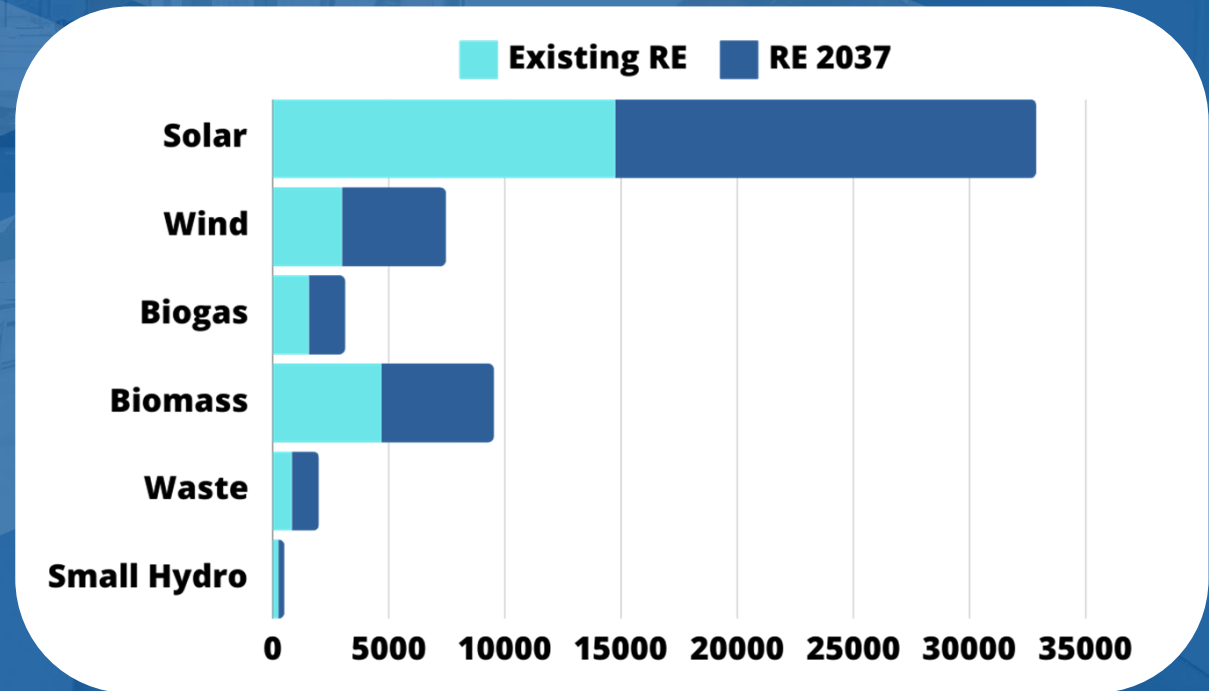
**Assoc. Prof. Sudharma Yoonaidharma**

Commissioner, Energy Regulatory Commission (ERC)

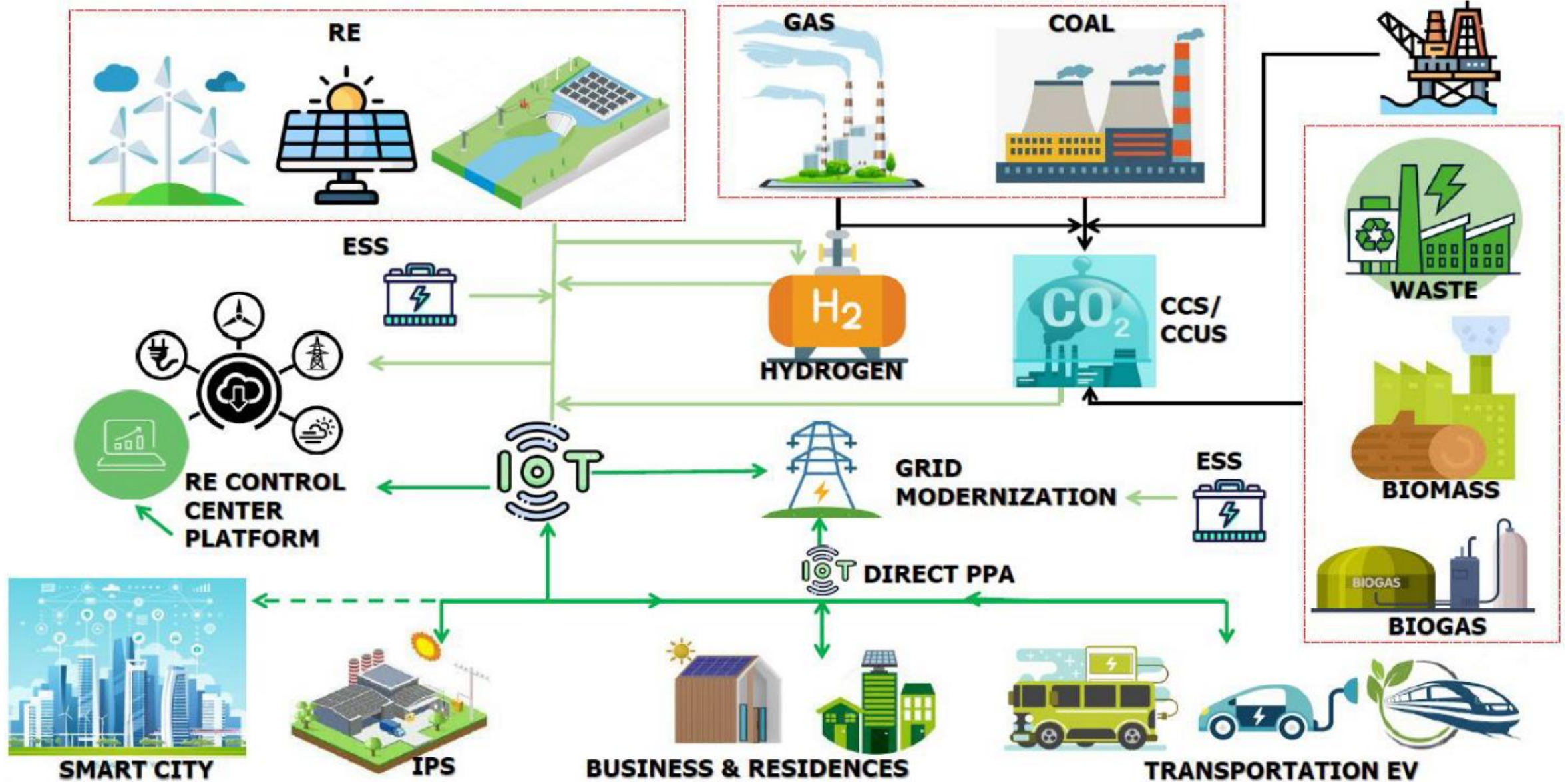
# National Energy Plan (NEP)



## Existing RE Installed Capacity and Planned capacity in MW on 2037



# Where are we heading to?





## Innovation

The regulatory exemption allows the privates and investors who are interested in the new business to have an opportunity to try their new methodologies and innovations.



## Adaptation

The ERC sandbox raises utilities' and the private sector's awareness of the need to adapt to the current trend of energy market structure to avoid disruption.



## Collaboration

The energy regulators, utilities, and privates have an opportunity to share our knowledge as well as collaborative activities such as the integration of the P2P platform.

# Sandbox: challenges

In 2019, the ERC took a significant step by launching the Energy Regulatory Commission Sandbox (ERC Sandbox). This platform is instrumental in testing and studying innovative projects, thereby playing a crucial role in promoting the use of renewable energy within its campaign.

To achieve Carbon neutrality and a Net Zero goal, the energy market structure has to be improved or reformed to encourage the use of renewable energy and keep the change in just.

## Challenge 01

Energy Trilemma:  
Security,  
Sustainability, and  
Affordability

## Challenge 02

Collaboration,  
Integration,  
Motivation,  
Incentive and  
Shared Value

## Challenge 03

Avoiding  
commercial  
benefit from the  
exemption of  
regulations and  
rules.



# What do we learn from Sandbox?



## Data

management, utilization, sharing and integration are the keys.



## Collaboration

is the key to creating innovation and change.



# THANK YOU!



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# ERRA

21<sup>st</sup> Annual Conference  
ENERGY REGULATORS FORUM

CO-LOCATED WITH FGA

## Adaptive Regulation in Energy Transition

15 - 17 MAY 2024 | Bangkok, Thailand

# Thank You

Organised By



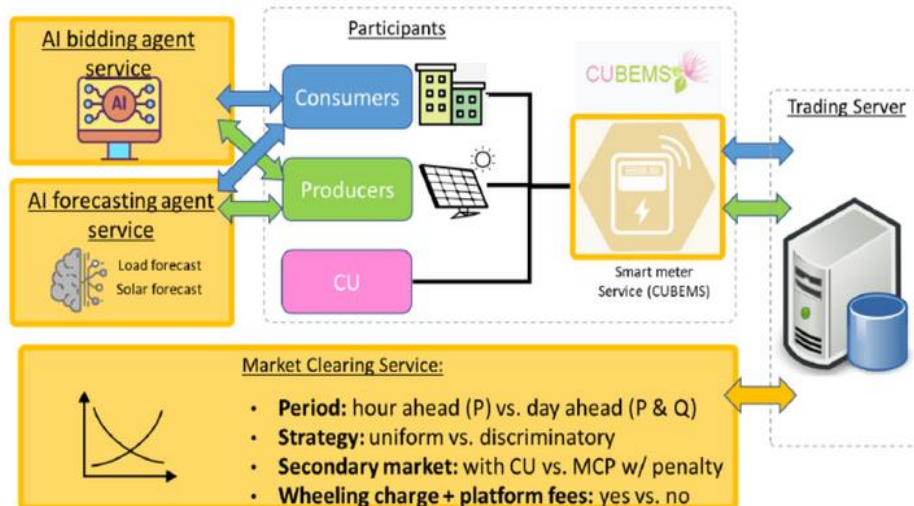
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Energy Regulatory Commission  
Office of the Energy Regulatory Commission



- To develop smart contracts and smart buildings
- To study the impact of different bidding agent strategies on market clearing price and participants' satisfaction
- To study trading behavior
- To test the trading platform with actual transactions



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