

Feb 13th 2025 The 7th Government Private Forum on the Cleaner Energy **Future Initiative for ASEAN (CEFIA)**

CEFIA RENKEI Control Flagship Project

RENKEI Control

RENKEI Control Working Group

Azbil Corp.

Lee Peoy Ying



Japan Electronics and Information Technology **Industries Association**

RENKEI Control

Content



What is RENKEI Control?

- 4 Years Collaboration and Activities Summary FY2020-FY2023
- **FY2024 Progress**





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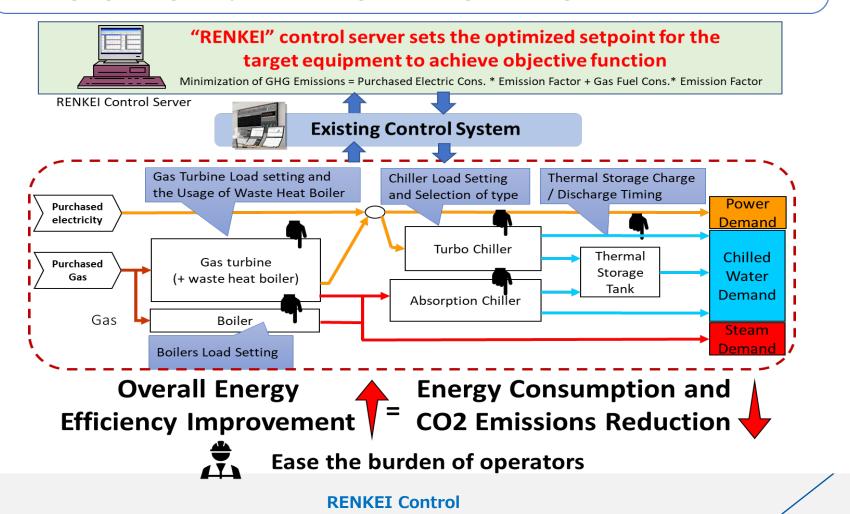
What is **RENKEI control**?



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The Purpose of **RENKEI** Control...

- to solve customer management issues (environmental problems) as well as energy saving (cost saving)
- to provides energy users with opportunities to achieve energy performance improvement without having to go through a major renewal or significant changes in existing facilities





	Category	Applicable Optimization by RENKEI Control
1	Utility Plant	 Boiler Plant Optimization Turbine Plant Optimization Boiler Turbine Plant Optimization Co-Generation Plant Optimization Chilled Water Plant Optimization Air Compressor Plant Optimization
2	Utility Plant and Demand Side	 HVAC system in building side District Cooling Plant Optimization with Demand Prediction for Building Side Utility Plant and Manufacturing Plant Total Optimization Smart City (Power and Heat) Total Optimization



Utility Plants in many kind of industry. (Steam, Hot Water, Chilled Water, Electricity, Cogeneration)

District Cooling Plant for Buildings



Content

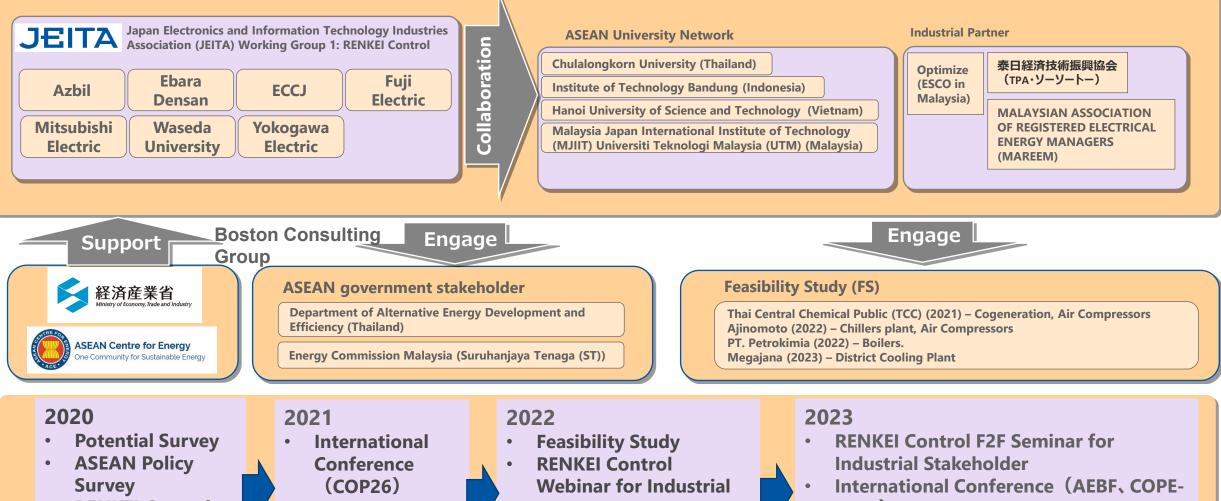


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4 Years Collaboration and Activities Summary FY2020-FY2023



RENKEI Control Webinar for University **Students**

- **RENKEI Control** Webinar for
- Industrial **Stakeholder**
- **Feasibility Study**

- **Stakeholder**
 - Self E-Learning (Chulalongkorn **University**)
 - **ASEAN TRIP**

BEST)

JEITA

- **ASEAN TRIP** •
- **Extend RENKEI Control dissemination to** Malaysia
- **Develop Training Content for Energy** Manager

Content



What is RENKEI Control?

4 Years Collaboration and Activities Summary FY2020-FY2023

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RENKEI Control Training Program Course for Energy Auditor and Energy Manager

Lectures :

- Malaysia Energy Efficiency Direction
- Introduction to RENKEI Control
- RENKEI Control for Air Compressors
- RENKEI Control for BTG
- Feasibility Study Concept for Air Compressors through Software Demonstration

Hands-On:

Feasibility Study Workshop for BTG by using Excel

RENKEI Control Fundamentals Structure:

- Measurements and Control
- Mechanism of Equipment
- Efficiency Calculation
- RENKEI Control Strategies

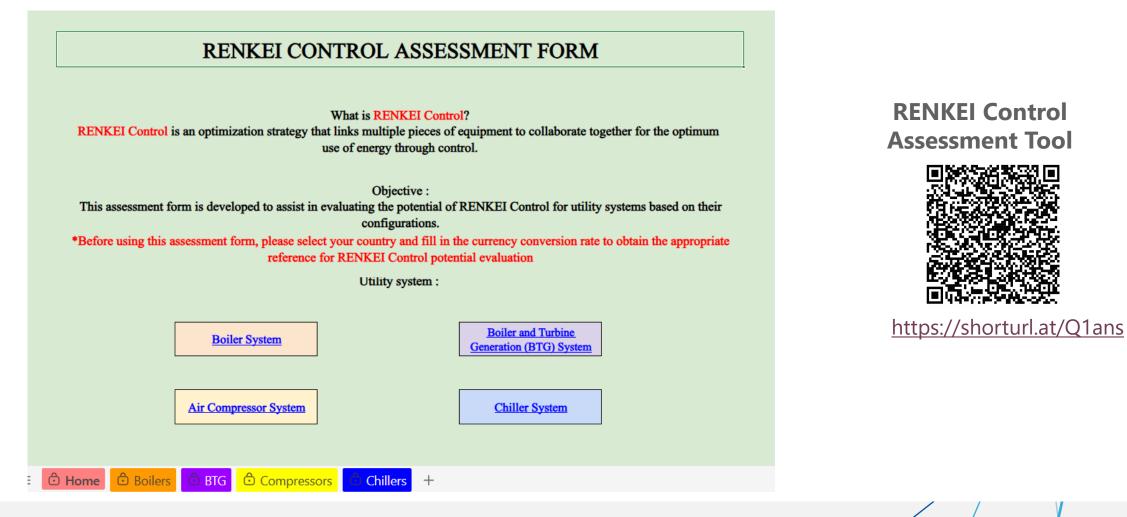


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RENKEI Control Training Program Course for Energy Auditor and Energy Manager



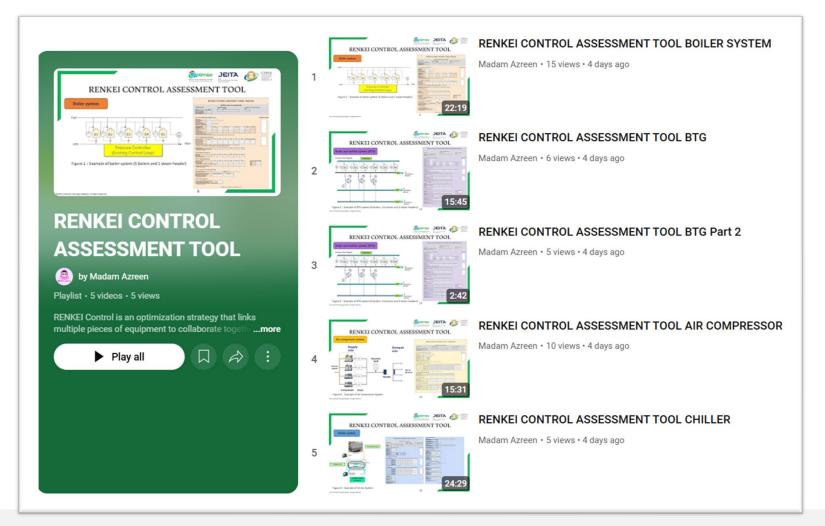
RENKEI Control Assessment Tool



RENKEI Control Training Program Course for Energy Auditor and Energy Manager



RENKEI Control Assessment Tool Tutorial



YouTube Playlist



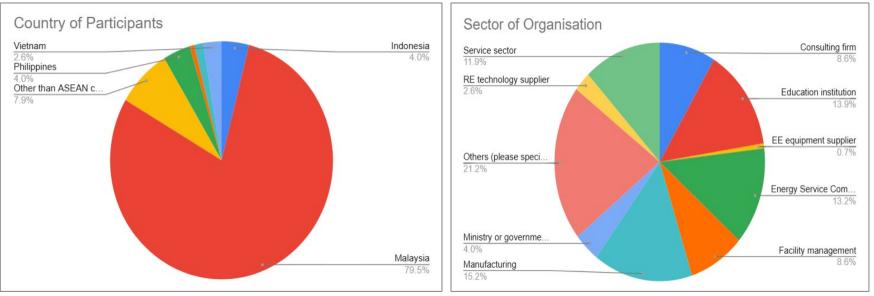
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November 18th 2024 Webinar

Date
Time
Form
Purpo

- : 2024 November 18th (Monday)
- : 2:30 ~ 4:30 PM
- : Online Webinar
- Purpose
- : Brief Introduction of RENKEL Control and promoting our upcoming seminar for Energy Auditors.
- Registered Participants : 131 persons
- Attended Participants
- : 107persons

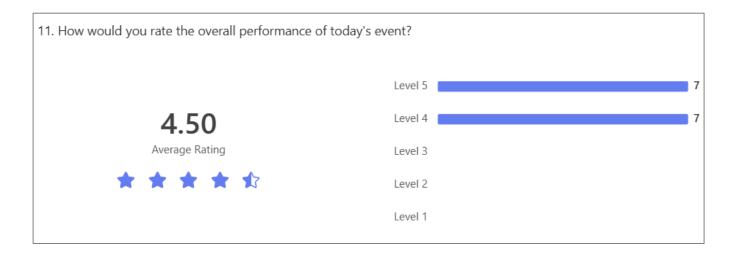






Overall Rating of Webinar

Feedback from 14 participants



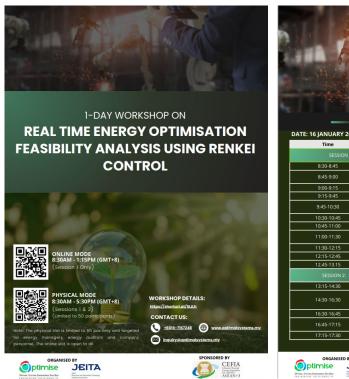


Jan 15th 2025 Physical and Online Workshop

- Date : 2025 January 16th (Thursday)
- Time : 8:30 to 17:30



- Form : Session 1: RENKEI Control Fundamentals and Concept (Online and Physical)
 - Session 2: Hands-On Session on RENKEI Control Feasibility Study Analysis (Physical Only)
- Purpose : Seminar targeting energy managers and energy auditors to gain knowledge about RENKEI Control for their own application.

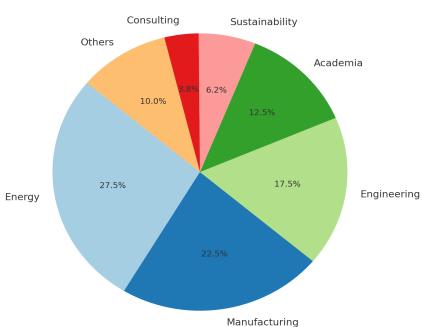




Jan 15th 2025 Physical and Online Workshop

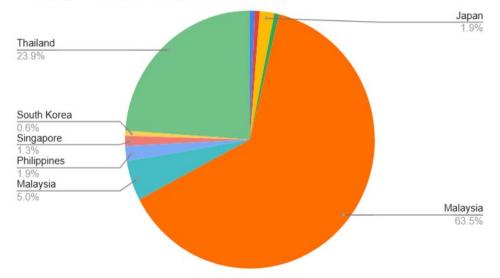
Registered Online Participants: 238 persons Attended Online Participants : 184 Persons





Category Distribution



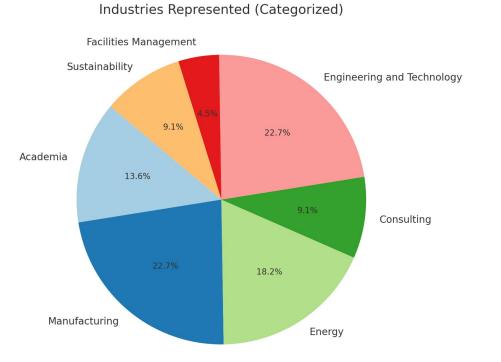


RENKEI Control

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Jan 15th 2025 Physical and Online Workshop

Registered Physical Participants : 52 Persons Attended Physical Participants : 22 Persons





Overall Rating of Workshop

17 Feedbacks from Physical Participants

* 17

19. How would you rate the overall performance of the training?

4.41

Average Rating



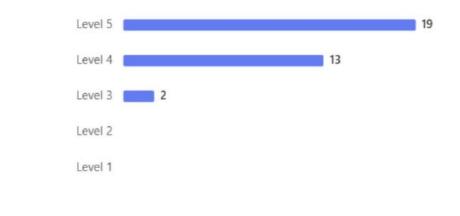
34 Feedbacks from Online Participants

13. How would you rate the overall performance of the training?

4.50

Average Rating

17





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Photo Session (Physical)



RENKEI Control

Ongoing Capacity Building through E-Learning



- Chulalongkorn University (CU)
- Malaysia Japan International Institute of Technology (MJIIT), Universiti Teknologi Malaysia (UTM)



Thank you for listening