

ECAP 34

ASEAN-JAPAN Energy Efficiency Partnership (AJEEP)

SOME-METI Work Programme 2024 – 2025



ECAP items of Industry Sector for FY2024 & FY2025 according to the Questionnaire result

12 November 2024 Tokyo, JAPAN

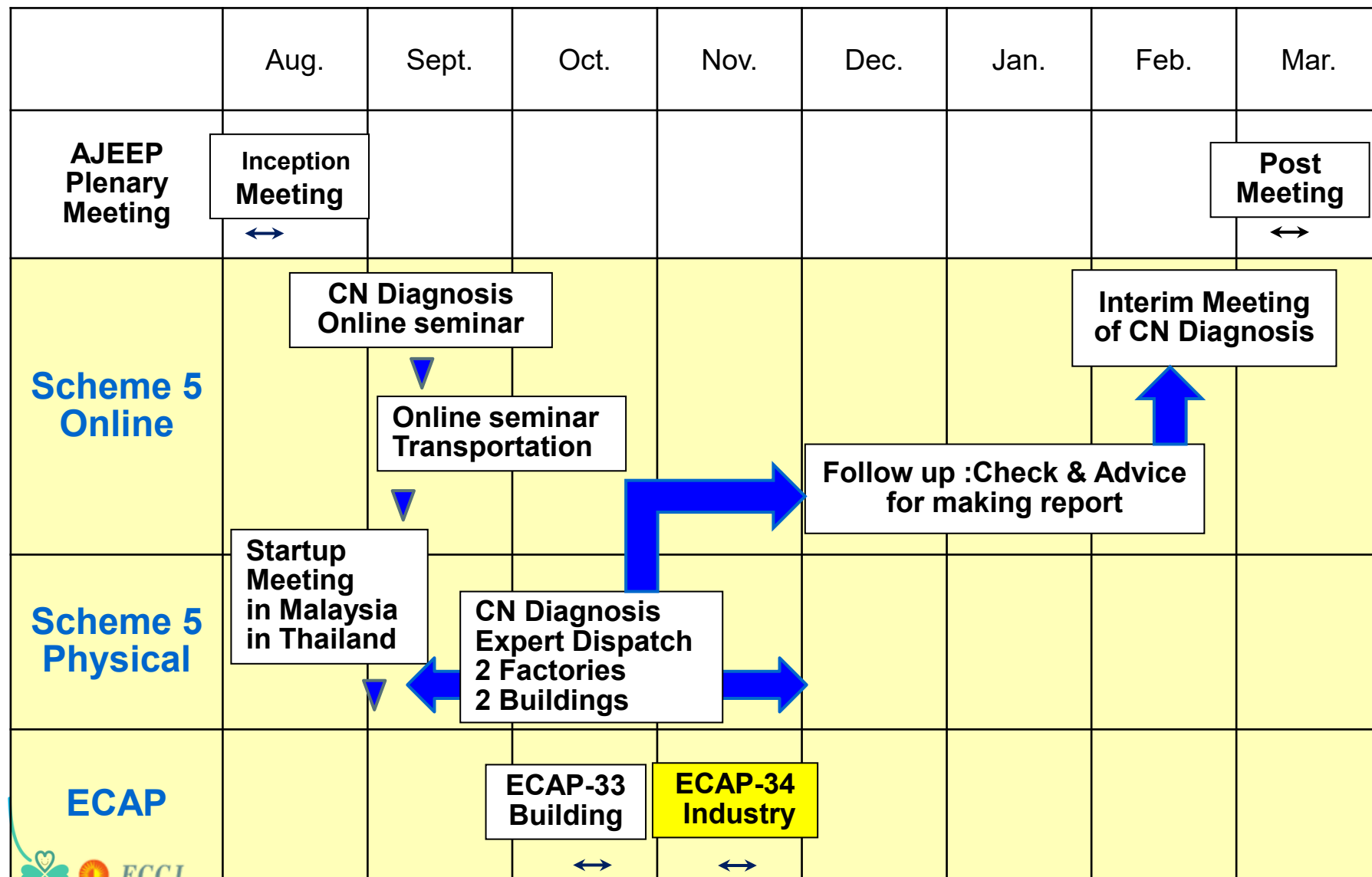
TAKASHI KANAZAWA

**International Planning Department,
International Planning Department, ECCJ**

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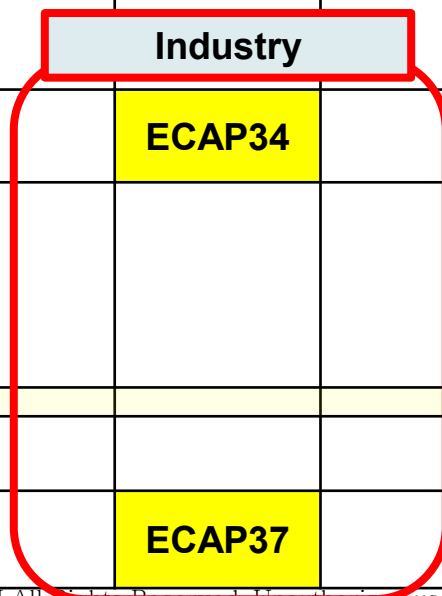
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1. Schedule of AJEEP Scheme 5 for FY 2024



2. Schedule of ECAP in Industry Sector

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March
2023 - 2024	Inception Mtg.	Diagnosis of Factory A in Malaysia Hospital B in Thailand					Interim Mtg. of A&B by online	Post Mtg.
			ECAP31					
2024 - 2025	Inception Mtg.	CN Diagnosis •Uni-charm Indonesia •Lao Coca-Cola •Ayalaland Philippines •Office in Brunei					Interim Mtg. of 4 sites by online	Post Mtg.
	Start up Mtg. of A&B by online							
2025 - 2026	Inception Mtg.	Diagnosis of 4 sites with Japanese expert					Interim & Start up Mtg. of 4 sites by online	Post Mtg.
	Start up Mtg. of 4 sites by online							



3. Questionnaire result list obtained at ECAP 28 in FY2022

Category	Subcategory	New technology	Responses	Year
Technologies to reduce CO2 generation	Energy Efficiency and Conservation Technologies (Enhancement of conventional EE&C)	Electric Demand Leveling, Turn up DR and turn down DR	12	2023
	Energy transition from Heat to Electricity	Heat pump, Electric heating Thermal engine → Electric engine	7	
	Production Process Transition	Advanced Steel Making, Direct Reduction Advanced Thermal Power, Clean Coal Technology	10	
	Transition from Fossil Fuel to Non-fossil Fuel	Fuel Cell, Hydrogen reduction, Ammonia, Biomass	9	2024
	Renewable Energy	Hydro, Solar, Wind, Geothermal, Wave, Tide	7	
	Utilization of Unused Energy, Energy Storage	Temperature difference energy, Waste heat recovery, Lithium-ion battery, Redox flow battery	7	
Technologies to manage generated CO2	CO2 Separation, Capture and Storage(CCS)	COURSE50, Recover from cement process	11	2023
	CO2 Utilization (Methanation, Chemical Recycle, Material Recycle, Industrial Gas)	Carbon recycle cement, Methanation Cellulose nanofiber, Artificial photosynthesis	10	
Green Society Building	Recycle technology, Sustainable Recycle Society	Waste, Plastic, Concrete, Scrap Steel, Noble metal Rare Metals	11	

(Number of response persons : 15)

4. Questionnaire result list obtained at ECAP 31 in FY2023

Technology	Number of Respondents
Hydrogen	5
EV/ Charging system	3
Ammonia	2
CCUS	2
Buttery /Buttery storage	2
Data-driven assessment/Big data	2
Bioenergy/ environment-friedly fuel	2
Transform fosil fuels to green enegy / Electrification in industries	1
Data analytic tools/ Common tools(Modelling, Visualising)	1
Fuel cell vehicle	1
EC for Commercial Building	1

5. Finished item of ECAP 31 for FY2023

ECAP 31	
EC Act EC policy	Japanese policy & International strategy by METI
	CN activity of Japanese company in ASEAN by JETRO
	Green Transformation (GX)
	Green Innovation Fund by NEDO
CN technology	CO2 separation, Capture and Storage by RITE
	Smart society technology by Waseda University

6. Content of ECAP 34 for FY2024

ECAP 34	
EC Act EC policy	Japanese policy & International strategy related Hydrogen by METI
	CN activity of Japanese company in ASEAN by JETRO
	Green Innovation Fund by NEDO
	Municipal initiatives to expand Hydrogen Energy by Tokyo Metropolitan Government
CN technology	Hydrogen Technologies and Status/Challenges toward Industrialization by HESS
	Large scale strategy and Transportation technology of Hydrogen by Chiyoda Co.
	Site tour of Power to Gas Project in Yamanashi Hydrogen Company

7. Tentative Item of ECAP 37 for FY2025

ECAP 37

Reduction of CO2 generation	Production process transition	Advanced Steel making Direct reduction Advanced thermal Power generation
	Transition from Fossil to Non-fossil Fuel	Hydrogen reduction steel making Power generation by Ammonia Biomass
Management of generated CO2	CO2 separation CO2 utilization	COURSE 50 Recover from Cement process
	Reuse of CO2	Carbon recycle cement Methanation, Cellulose nanofiber
Green Society	Recycle technology	Waste, Plastic composite Concrete, Scrap steel
	Sustainable Recycle Society	Noble metal & rare metal recycle

8. Conclusion

1. Proposed items of ECAP 31 was selected according to the questionnaire result obtained at ECAP 28.
2. Item of ECAP 34 will be implemented by the questionnaire result list.
3. Item of ECAP 37 will be prepared by the questionnaire result list
4. If AMS wants to pick up the other items, request it to ECCJ at the Post Meeting.
5. ECCJ will meet AMS's demand when planning to the next ECAP 37 item.

Thank you for your kind attention

