

Enhancing Capacity for Methane Emission Reduction and MRV in FSM

- Review on Methane Reduction Roadmap, Pohnpei, FSM June 2025 -

Introduction

Methane is a potent greenhouse gas and short-lived climate pollutant (SLCP) primarily released through human activities. Although its atmospheric lifetime is only about 12 years—much shorter than that of carbon dioxide (CO₂)—methane has a global warming potential 86 times greater than CO₂ over a 20-year period. Because of its short lifespan and high potency, reducing methane emissions can yield rapid climate benefits and offer significant environmental and societal gains within a few decades.

To support global climate action, the Federated States of Micronesia (FSM) ratified the Paris Agreement in September 2016 and joined the Global Methane Pledge during the COP26 Climate Summit in Glasgow in November 2021. The pledge aims to reduce global methane emissions by at least 30% from 2020 levels by 2030. Despite contributing minimally to global emissions, FSM has shown strong leadership and dedication to climate mitigation.

Acknowledging the urgent need to reduce methane emissions, the Department of Environment, Climate Change and Emergency Management (DECCEM) secured financial and technical assistance from the Climate and Clean Air Coalition (CCAC) and Institute for Global Environmental Strategies (IGES) to develop a comprehensive methane reduction roadmap and an effective Monitoring, Reporting, and Verification (MRV) system aligned with FSM's Nationally Determined Contributions (NDCs).

Objectives

This two-day capacity-building workshop, organized by IGES in collaboration with DECCEM and CCAC, is designed to:

1. Enhance the understanding of methane emissions among national and state-level government officials, focusing on the sources, impacts, and current emission status in the key sectors of waste, agriculture, and energy. It will also highlight the significance of ground data collection and management in line with IPCC estimation methods.
2. Facilitate in-depth discussions on proposed methane reduction targets and sector-specific mitigation measures at the state level.
3. Introduce participants to digital tools and methodologies for building a robust MRV system tailored to FSM's context.
4. Suggest the feasible and effective MRV system for FSM

The workshop will combine expert-led lectures with interactive group discussions to ensure an engaging and effective learning experience.

Expected Outcomes

- Enhanced understanding of methane emission sources and impacts in FSM
- Improved technical capacity on IPCC estimation and data systems
- Clearer methane reduction targets and feasible MRV frameworks
- Strengthened cooperation between national and state-level actors

Training Workshop Agenda

Venue: DECEM, Dates: 5-6 June 2025

<https://us02web.zoom.us/j/82202556881?pwd=6jU6uSN1Flr26rFoeodxEcljbSj0iU.1>

Day 1 (June 5): Understanding Methane Emissions and Sectoral Analysis

Time	Session	Speaker/Facilitator
08:45 – 09:00	Registration and welcome coffee	Patrick / DECEM
09:00-09:10	Opening Ceremony & Welcome Remarks	Director, DECEM Online: Mr. Nathan Borgford-parnell (Scientific Affairs Lead, CCAC)
09:10-09:25	Self-introduction and expectation	DECEM
09:25-09:40	Overview Presentation: Methane as a Short-Lived Climate Pollutant Methane's impact, urgency for action, and FSM's commitments	Online: Mr. Nathan Borgford-parnell (CCAC)
09:40-10:10	Session 1: Current Methane Emissions and Proposed Reduction Targets and Measures by Sector and State <ul style="list-style-type: none"> - Sectoral emissions overview: waste, agriculture, and energy - Suggested targets and measures par state 	Ms. Miho Hayashi (IGES) Facilitators (DECEM)
10:10-10:30	Group photo and Coffee break	
10:30-11:30	Session 1 (cont.) <ul style="list-style-type: none"> - Group discussion and feedback per state - Discussion among state-level officials on current practices and challenges followed by presentation - Consensus building on targets and measurements in the roadmap 	Ms. Miho Hayashi (IGES) Facilitators (DECEM)
11:30-12:30	Session 2: IPCC Guidelines and Importance of Ground Data Collection for adequate estimation of methane emission <ul style="list-style-type: none"> - Lecture: IPCC estimation methods and tiers - Why local data matters for national inventories 	Mr. Kiyoto TANABE (IPCC expert, IGES)

Time	Session	Speaker/Facilitator
12:30-13:30	Lunch	
13:30-14:15	Session 2 (cont.) <ul style="list-style-type: none"> - Suggested Monitoring Data - Discussion: Identifying data and needs per sector (GHG and non-GHG) 	Mr. Kiyoto TANABE (IPCC expert, IGES) Facilitator (IGES)
14:15-15:45	Session 3: Useful Digital Tools for data management and emission calculation <ul style="list-style-type: none"> - Introduction of Kobotool + Q&A (45 min) - Introduction of Emission Quantification Tool (EQT) + Q&A (45 min) 	Online: Mr. Faafetai Ms. Nirmala MENIKPURA (IGES)
15:45-16:00	Coffee break	
16:00-16:30	Session 3 (cont.) <ul style="list-style-type: none"> - Discussion: Feasibility and usefulness of application of the tools and next step 	Facilitator (DECCEM, IGES)
16:30 – 16:45	Wrap-Up of Day 1 and Group Reflections <ul style="list-style-type: none"> - Summary of insights and key takeaways - Preview of Day 2 activities 	Ms. Miho Hayashi (IGES)

Day 2 (June 6) : Designing MRV Systems

Time	Session	Speaker/Facilitator
08:45 – 09:00	Registration	DECCEM / Patrick
09:00-09:15	Summary of Day 1	Ms. Miho Hayashi (IGES)
09:15 – 10:30	Session 4: Introduction of MRV Systems <ul style="list-style-type: none"> - Overview of MRV frameworks for NDC - Q&A - Group discussion: reporting and verification structure per state 	Mr. Kiyoto TANABE (IPCC expert, IGES) (MRV) Facilitator (Miho Hayashi, IGES)
10:30-10:45	Coffee break	
10:45-11:15	<ul style="list-style-type: none"> - Presentation per state with interaction from federal agencies 	Facilitator (DECCEM)
11:15-11:45	Wrap-Up, Feedback, and Next Steps <ul style="list-style-type: none"> - Wrap-up and consensus building - Feedback from participants - Identification of follow-up actions and support needs 	DECCEM and IGES (Miho, Kumara)
11:45 – 12:00	Closing Remarks	DECCEM
12:00-	lunch	