

Maritime Technology Cooperation Centre - Pacific
Pacific Community, Suva Regional Office
Private Mail Bag, Suva, Fiji
Tel: (679) 337 0733 | Fax: (679) 337 01 46
Email: mtcc-pacific@spc.int | Web: www.spc.int

**MTCC-PACIFIC – Tuvalu National Workshop on Ship Energy Efficient Operations
(SEEO)
Funafuti, Tuvalu, 8~18th May, 2018**

PROGRAMME

Time	Agenda item	Agenda issues	Presenters
Day 1 – 8th May, 2018 – Technical Workshop (Ship Energy Efficient Operations)			
0800		Registration	
0830		Welcome Addresses: Ministry of Foreign Affairs, Trades, Tourism, Environment & Labour (TBD) MTCC-Pacific Transport Greenhouse Gas Adviser	
0900 – 1030	1	Ship Energy Efficiency Operation (SEEO) Challenges- Ship Owners Issues- Discussion of N-B-R-A Matrix: 'Outcome'	MTCC-Pacific
	2	Ship Energy Efficiency Regulations and Related Guidelines - Introduction to ship roles and responsibilities	MTCC-Pacific
1030-1100		Tea Break	
1100 – 1230	3	Ship Management to Operation - Origins of air pollution (airpol) and climate change (CC) - CC and GHG emissions (GHGE) - International global response - International shipping response - Main IMO instruments and historical developments	MTCC-Pacific
	4	Ship-Board Energy Management - IMO regulatory framework (FW)- ship energy efficiency (SEE) - MARPOL Annex VI Chapter 4 - Brief introduction to SEEMP GL - Brief introduction to SEE Operations Index (EEOI) GL	MTCC-Pacific
1230 – 1330		Lunch	

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1330- 1500	5	Ship-Port Interface and Energy Efficiency <ul style="list-style-type: none">- Introduction to ports and port-area emissions- Ship time in port and just-in-time (JIT) operations- Technologies for port air quality (AQ)/GHGE reductions- Ship in-port operational energy efficiency measures (OEEM)- Onshore power supply (OPS)	MTCC-Pacific
	6	Energy Management Plan (EnMP) and System (EnMS) <ul style="list-style-type: none">- Brief overview of various ship-board management systems- Company level energy management- Energy audits and reviews, types and processes- Ship performance, monitoring and voyage performance analysis	MTCC-Pacific
	7	Pacific Island Domestic Ship Safety (PIDSS) <ul style="list-style-type: none">- Goals, Objectives & Outcomes- PIDSS SMS- Components- Status- Issues and Lessons Learnt	MTCC-Pacific
1500- 1530	8	Open Discussions	
1530- 1600	Tea Break		
End Day 1			

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Time	Agenda item	Agenda issues	Presenters
Day 2 – 9th May , 2018 – Technical Workshop (Ship Energy Efficient Operation)			
0845	Participants arrive		
0900 – 1030	1	Guidelines for EEDI <ul style="list-style-type: none"> - Overview of EEDI formula - EEDI calculation parameters - EEDI factors and correction factors - Example of a sample EEDI calculation 	MTCC-Pacific
	2	Guidelines for SEEMP <ul style="list-style-type: none"> - Main elements of SEEMP - Implementation aspects - EEOI calculation process - Video - Best Practice For Fuel-Efficient Operation 	MTCC-Pacific
1030-1100	Tea Break		
1100 – 1230	3	Operational energy efficiency measures <ul style="list-style-type: none"> - Operation management - Maintenance and condition monitoring - Auxiliary load management - Trim/ballast optimization - Hull and engine conditions - System planning and reduced demand 	MTCC-Pacific
	4	Technical energy efficiency measures <ul style="list-style-type: none"> - EEDI reduction method - Ship hydrodynamics - Propeller and propulsion system - Engines and power systems - Auxiliary machinery 	MTCC-Pacific
1230 – 1330	Lunch		



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1330 – 1545	5	Further measures to enhance the energy efficiency of ships <ul style="list-style-type: none">- Development of a data collection system (DCS) for fuel consumption<ul style="list-style-type: none">o data collection;o data analysis; ando followed by decision-making on what further measures, if any, are required	MTCC-Pacific
	6	Potential to reduce emissions and fuel consumption <ul style="list-style-type: none">- Introduction and forecasting scenarios- Simulation model- Fuel consumption and fuel cost forecast	MTCC-Pacific
	7	LED <ul style="list-style-type: none">- What is LED?- Efficacy of led- Cost evaluation for LED application	MTCC-Pacific
	8	Shaft Generators <ul style="list-style-type: none">- What is shaft generator system?- Vessels using shaft generator- Energy saving- Cost effect- Risk	MTCC-Pacific
	9	Waste Heat Recovery System (WHRS) <ul style="list-style-type: none">- Heat Balance for Engine without & with WHRS- PTG(Power Turbine & Generator) WHRS- STG(Steam Turbine & Generator) WHRS- PT-ST Combined Waste Heat Recovery System	MTCC-Pacific
1545- 1600	10	Open Discussions	
1600- 1630	Closing Remarks		
End Day 2			

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Day 3 – 10th May, 2018 – Technical Workshop (Ship Energy Efficient Operations)			
0845		Participants arrive	
0900 – 1030	1	Overview of the Vanuatu Islands National Workshop	MTCC-Pacific
	2	Update by the Marine Department	MoCT
1030 – 1000		Tea Break	
1100 – 1230	3	Discussion of the workshop Outcome document	MTCC-Pacific
	4	Certificate of Attendance Awarded	Permanent Secretary
	5	Closing remarks	PS/MTCC-Pacific
Lunch & End Day 3			
11th – 16th May, 2018 – Onboard Ship visits			
0800 – 1600		Introduction of onboard data collection template and development of ship energy efficiency management plan (SEEMP)	MTCC-Pacific / MoCT