

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 - Fiji National Workshop on Ship Energy Efficient Operations (SEEO)
Suva, Fiji, 24~25 October, 2017**

PROGRAMME

Time	Agenda item	Agenda issues	Presenters
Day 1 – 24th October, 2017 – High-level Workshop			
0830		Registration	
0900 – 0910		Welcome address	MTCC-Pacific/ SPC
0910 – 0920		Opening address	MTCC-Pacific
0920 – 0930		Keynote address	Fiji MoIT
0930 – 1000	1	Presentation of the GMN project – IMO approach	IMO
1000 – 1030		Open Discussion	All
1030 – 1100		Tea Break – Group Photo	
1100 – 1130	2	Presentation of the MTCC-Pacific project	MTCC-Pacific
1130 – 1230	3	The approach of the Maritime Authority	MSAF
1230 – 1330		Lunch	
1330 – 1400	4	Collecting data for informed decision-making	MTCC-Pacific
1400 – 1500	5	Group Discussion - issues, challenges and opportunities in the Fiji Maritime Industry	All
1500 – 1530	6	Group feedback – issues, challenges and opportunities in the Fiji Maritime Industry	Groups
1530 – 1600		Tea Break	
1600 – 1700		Wrap-up – meeting outcome	MTCC-Pacific
End Day 1			
Cocktail Party Hosted by SPC			

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Time	Agenda item	Agenda issues	Presenters
Day 2 – 25th October, 2017 – Technical Workshop (Energy Efficient Ship Operation)			
0845	Participants arrive		
0900 – 1030	1	Climate Change and Shipping Response <ul style="list-style-type: none"> - Overview of shipping operations, including operation segments, ship and cargo types, and the ports role - Shipping contracts, contract of carriage, bill of lading - Ship loading, cargo management and load lines 	MTCC-Pacific
	2	Ship Energy Efficiency Regulations and Related Guidelines <ul style="list-style-type: none"> - Introduction to ship roles and responsibilities - Importance of good communication between engine and deck department - SEE measures - Ship maintenance 	MTCC-Pacific
1030-1100	Tea Break		
1100 – 1230	3	Ship Management to Operation <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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	<p>Ship-Port Interface and Energy Efficiency</p> <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	<p>Fiji Port approach on Energy Efficiency</p> <ul style="list-style-type: none"> - Energy Savings since 2016 Audit - Energy Policy - Energy Management action Plan - Energy Data/ Energy Documentation - Fuel meter trial 	Fiji Ports Cooperation Limited
	7	<p>Energy Management Plan (EnMP) and System (EnMS)</p> <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
	8	<p>Pacific Island Domestic Ship Safety (PIDSS)</p> <ul style="list-style-type: none"> - Goals, Objectives & Outcomes - PIDSS SMS - Components - Status - Issues and Lessons Learnt 	MTCC-Pacific
1500- 1530	9	Open Discussions	
1530- 1600	Tea Break		
End Day 2			

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Time	Agenda item	Agenda issues	Presenters
Day 3 – 26th October, 2017 – Technical Workshop (Energy Efficient Ship 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 - Development of a data collection system (DCS) for fuel consumption o data collection; o data analysis; and o followed by decision-making on what further measures, if any, are required	MTCC-Pacific
	6	Potential to reduce emissions and fuel consumption - Introduction and forecasting scenarios - Simulation model - Fuel consumption and fuel cost forecast	MTCC-Pacific
	7	LED - What is LED? - Efficacy of led - Cost evaluation for LED application	MTCC-Pacific
	8	Shaft Generators - What is shaft generator system? - Vessels using shaft generator - Energy saving - Cost effect - Risk	MTCC-Pacific
	9	Waste Heat Recovery System (WHRS) - 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	Tea Break		
End Day 3			



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Day 4 – 27th October, 2017 – Technical Workshop (Energy Efficient Ship Technologies)			
0845	Participants arrive		
0900 – 1030	1	Overview of the Fiji national workshop	MTCC-Pacific
	2	Presentation by Ship Owner - Patterson Brothers Shipping - Solander Shipping - All barge Engineering Limited	Ship-owners
	3	Regulatory Compliance	MSAF
1030 – 1100	Tea Break		
1100 – 1230	4	Fiji Local Ship Owners	Billett Wrights & Associates
	5	Remarks from SPC partner	PIDF
	6	Certificate of Attendance Awarded	Permanent Secretary (PS)
	7	Closing remarks	PS/ MTCC-Pacific
Lunch & End Day 4			