

Maritime Technology Cooperation Centre - Pacific
Pacific Community, Suva Regional Office
Private Mail Bag, Suva, Fiji
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MTCC-PACIFIC – Samoa National Workshop on Ship Energy Efficient Operations (SEEO)
Apia, Samoa, 12th- 14th June, 2018

PROGRAMME

Time	Agenda item	Agenda issues	Presenters
Day 1 – 12th June, 2018 – Technical Workshop (Ship Energy Efficient Operations)			
0800		Registration	
0830		Welcome Address: Ministry of Works, Transport & Infrastructure (Mr Su'a Afamasaga Pou Onesemo) MTCC-Pacific Transport Greenhouse Gas Adviser	
0900 – 1030	1	Ship Energy Efficiency Operation (SEEO) Challenges- Ship Owners Issues- Discussion of N-D-B-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 - ship energy efficiency (SEE) - MARPOL Annex VI Chapter 4 - Brief introduction to SEEMP Guideline - Brief introduction to SEE Operations Index (EEOI) Technical Advisory	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) energy efficiency operational measures (SEEOM)- 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 - 13th June , 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 – 14th June, 2018 – Technical Workshop (Ship Energy Efficient Operations)			
0845		Participants arrive	
0900 – 1030	1	Overview of the Samoa National Workshop	MTCC-Pacific
	2	Update by the <i>Marine Department</i>	MWTI
1030 – 1000		Tea Break	
1100 – 1230	3	Discussion of the workshop Outcome document	MTCC-Pacific
	4	Certificate of Attendance Awarded	CEO
	5	Closing remarks	CEO/MTCC-Pacific
Lunch & End Day 3			