

Maritime Technology Cooperation Centre - Pacific  
Pacific Community, Suva Regional Office  
Private Mail Bag, Suva, Fiji  
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**MTCC-PACIFIC – Marshall Islands National Workshop on Ship Energy Efficient Operations (SEEO)  
Majuro, 20-22 August, 2018**

**PROGRAMME**

Time	Agenda item	Agenda	Presenters
<b>Day 1 – 20<sup>th</sup> August, 2018 – Technical Workshop (Ship Energy Efficient Operations)</b>			
0800		<b>Registration</b>	
0830		<b>Welcome Address: Secretary of Ministry of Transportation, Communications and Information Technology</b> <b>Opening Speech : SPC DDG – Dr. Audrey Aumua</b>	
0900 – 1030	1	Ship Energy Efficiency Operation (SEEO) Challenges- Ship Owner Issues- Discussion of D-N-B -A Matrix: 'Outcome'	MTCC-Pacific
	2	Low Carbon Futures in Shipping	USP/ MCST
	3	Transitioning to Low Carbon Sea Transport	GIZ
1030-1100		<b>Tea Break</b>	
1100 – 1230	4	Ship Management to Operation - Origins of air pollution and climate change - Climate change and GHG emissions - International global response - International shipping response - Main IMO instruments and historical developments	MTCC-Pacific
	5	Ship-Board Energy Management - IMO regulatory framework - ship energy efficiency - MARPOL Annex VI Chapter 4 - Brief introduction to SEEMP GL - Brief introduction to SEE Operations Index	MTCC-Pacific
1230 – 1330		<b>Lunch</b>	

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1330- 1500	6	<p>Ship-Port Interface and Energy Efficiency</p> <ul style="list-style-type: none"> <li>- Introduction to ports and port-area emissions</li> <li>- Ship time in port and just-in-time operations</li> <li>- Technologies for port air quality / GHGE reductions</li> <li>- Ship in-port operational energy efficiency measures</li> <li>- Onshore power supply</li> </ul>	MTCC-Pacific
	7	<p>Energy Management Plan and System</p> <ul style="list-style-type: none"> <li>- Brief overview of various ship-board management systems</li> <li>- Company level energy management</li> <li>- Energy audits and reviews, types and processes</li> <li>- Ship performance, monitoring and voyage performance analysis</li> </ul>	MTCC-Pacific
	8	<p>Pacific Island Domestic Ship Safety (PIDSS)</p> <ul style="list-style-type: none"> <li>- Goals, Objectives &amp; Outcomes</li> <li>- PIDSS SMS: SOP</li> <li>- Components</li> <li>- Status</li> <li>- Issues and Lessons Learnt</li> </ul>	MTCC-Pacific
1500- 1530	9	Open Discussions	
1530- 1600	<b>Tea Break</b>		
<b>End Day 1</b>			

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Time	Agenda item	Agenda issues	Presenters
<b>Day 21<sup>st</sup> August, 2018 – Technical Workshop (Ship Energy Efficient Operation)</b>			
<b>0845</b>	<b>Participants arrive</b>		
<b>0900 – 1030</b>	<b>1</b>	Guidelines for EEDI <ul style="list-style-type: none"> <li>- Overview of EEDI formula</li> <li>- EEDI calculation parameters</li> <li>- EEDI factors and correction factors</li> <li>- Example of a sample EEDI calculation</li> </ul>	MTCC-Pacific
	<b>2</b>	Guidelines for SEEMP <ul style="list-style-type: none"> <li>- Main elements of SEEMP</li> <li>- Implementation aspects</li> <li>- EEOI calculation process</li> <li>- Best Practice For Fuel-Efficient Operation</li> </ul>	MTCC-Pacific
<b>1030-1100</b>	<b>Tea Break</b>		
<b>1100 – 1230</b>	<b>3</b>	Operational energy efficiency measures <ul style="list-style-type: none"> <li>- Operation management</li> <li>- Maintenance and condition monitoring</li> <li>- Auxiliary load management</li> <li>- Trim/ballast optimization</li> <li>- Hull and engine condition</li> <li>- System planning and reduced demand</li> </ul>	MTCC-Pacific
	<b>4</b>	Technical energy efficiency measures <ul style="list-style-type: none"> <li>- EEDI reduction method</li> <li>- Ship hydrodynamics</li> <li>- Propeller and propulsion system</li> <li>- Engines and power systems</li> <li>- Auxiliary machinery</li> </ul>	MTCC-Pacific
<b>1230 – 1330</b>	<b>Lunch</b>		



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1330 – 1545	5	Further measures to enhance the energy efficiency of ships - Development of a data collection system for fuel consumption - data collection; - data analysis; and - 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 models - 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	<b>Closing Remarks</b>		
<b>End Day 2</b>			

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Time	Agenda item	Agenda issues	Presenters
<b>Day 3 – 22<sup>nd</sup> August, 2018 – Technical Workshop (Ship Energy Efficient Operations)</b>			
<b>0845</b>	<b>Participants arrive</b>		
<b>0900 – 1030</b>	<b>1</b>	Overview of the Marshall Islands National Workshop	MTCC-Pacific
	<b>2</b>	Update by the Marine Department	MTCIT
<b>1030 – 1000</b>	<b>Tea Break</b>		
<b>1100 – 1230</b>	<b>3</b>	Discussion of the workshop Outcome document	MTCC-Pacific
	<b>4</b>	Certificate of Attendance awarded	MTCIT
	<b>5</b>	Closing remarks	MTCIT / MTCC-Pacific
<b>Lunch &amp; End Day 3</b>			