

## PORT OF PRINCE RUPERT GREEN WAVE PROGRAM

The Green Wave program, introduced in 2013, offers reduced harbour dues to vessels that have implemented emission reduction measures and/or other environmental practices to improve their environmental performance. The program focuses on environmental certification, technological implementation and management practices. The aim of Green Wave is to incentivize shipping companies to increase their environmental awareness and continue to improve the performance of their vessels.

Vessels can qualify for one of three tiers; each offering a different level of discount from the base harbour dues rate. These tiers are based on the level of commitment toward aspects of environmental performance, including reduced air emissions and pollutants, reduced underwater noise, adoption of energy efficient technology, and participation in the marine sustainability organizations and initiatives that are being rapidly adopted worldwide.

In 2019, the mechanisms to qualify for discounted harbour dues through the Green Wave program include:

### ENVIRONMENTAL PROGRAMS

- **Green Marine**  
([www.green-marine.org](http://www.green-marine.org))
- **RightShip**  
([www.rightship.com](http://www.rightship.com))
- **Environmental Ship Index**  
([www.environmentalshipindex.org](http://www.environmentalshipindex.org))
- **Clean Cargo Working Group**  
([www.clean-cargo.org](http://www.clean-cargo.org))
- **Energy Efficiency Design Index**  
([www.imo.org](http://www.imo.org))
- **Clean Shipping Index**  
([www.cleanshippingindex.com](http://www.cleanshippingindex.com))
- **Green Award**  
([www.greenaward.org](http://www.greenaward.org))

### UNDERWATER NOISE – CLASSIFICATION SOCIETIES

- **Bureau Veritas (BV) URN notation**  
([group.bureauveritas.com](http://group.bureauveritas.com))
- **Det Norske Veritas – Germanischer Lloyd (DNV-GL) SILENT (E) notation**  
([www.dnvgl.com](http://www.dnvgl.com))
- **Lloyd's Register UWN-L notation**  
([www.lr.org](http://www.lr.org))
- **Registro Italiano Navale (RINA) DOLPHIN notation**  
([www.rina.org](http://www.rina.org))

### UNDERWATER NOISE – TECHNOLOGY

- **Becker Mewis Duct**  
([www.becker-marine-systems.com](http://www.becker-marine-systems.com))
- **ECO-Cap (Nakashima)**  
([www.nakashima.co.jp](http://www.nakashima.co.jp))
- **EnergoproFin (Wartsila)**  
([www.wartsila.com](http://www.wartsila.com))
- **Propeller Boss Cap Fins (Mitsui OSK)**  
([www.pbcf.jp](http://www.pbcf.jp))
- **Schneekluth Wake Equalizing Duct**  
([www.schneekluth.com](http://www.schneekluth.com))

		TIER 1 (-10%)	TIER 2 (-20%)	TIER 3 (-50%)
<b>ENVIRONMENTAL PROGRAMS</b>	Green Marine	Level 3 GHG and minimum Level 2 in all other indicators	Level 4 GHG and minimum Level 2 in all other indicators OR Level 5 Underwater Noise and minimum Level 2 in all other indicators	Level 5 GHG and minimum Level 2 in all other indicators
	RightShip	Verified GHG B	Verified GHG B+	Verified GHG A
	Environmental Ship Index	Score 20 - 30	Score >30 - 50	Score >50
	Clean Cargo Working Group	CO <sub>2</sub> dry score <46 - 36	CO <sub>2</sub> dry score <36	
	Clean Shipping Index	CSI 3	CSI 4	CSI 5
	Energy Efficiency Design Index	Attained EEDI 15% better than required	Attained EEDI 25% better than required	
	Green Award	Award certificate		
<b>UNDERWATER NOISE - CLASSIFICATION SOCIETIES</b>	Bureau Veritas (BV)			URN notation
	Det Norske Veritas – Germanischer Lloyd (DNV-GL)			SILENT (E) notation or Certificate of Compliance
	Lloyd's Register (LR)			UWN-L notation
	Registro Italiano Navale (RINA)			DOLPHIN notation
<b>UNDERWATER NOISE - TECHNOLOGY</b>	Becker Mewis Duct	Technology installed		
	ECO-Cap (Nakashima)	Technology installed		
	EnergoproFin (Wartsila)	Technology installed		
	Propeller Boss Cap Fins (Mitsui OSK)	Technology installed		
	Schneecluth Wake Equalizing Duct	Technology installed		

Necessary criteria to achieve one of the three discounted harbour dues rates. Vessels need only satisfy one criterion to achieve the corresponding tier discount.

FOR MORE INFORMATION EMAIL

[greenwave@rupertport.com](mailto:greenwave@rupertport.com)

OR CONTACT

Jason Scherr  
Manager, Environmental Sustainability  
250-627-2528

Adam Simons  
Environmental Coordinator  
250-627-2564