ISSUE	CATEGORIES		INDICATORS	Yes or No	RESPONSE	NOTES		METRICS	NOTES	Helpful References
GHG	Measurement, Reporting and Verification	1-01	Do you measure your overall CO_2 emissions?				M1	Scope 1 CO_2 emissions (MT)	Scope 1 and Scope 2 emissions include all fuel combustion and purchased electricity used within the physical boundaries of the terminal. Emissions should be calculated based on the WRI-WBCSD GHG Protocol. A terminal-specific CO_2 standard is not publicly available at this time.	GHG Protocol Corporate Standard

World Ports Climate Initiative Carbon Footprinting Guidance |
| | | 1-02 | Do you monitor and reduce your non-CO_2 GHG emissions?
- Methane (CH_4)
- Nitrous Oxide (N_2O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur Hexafluoride (SF_6) | | | | M2 | Scope 2 CO_2 emissions (MT) | | |
		1-03	Do you disclose your CO_2 emissions and/or communicate your CO_2 emission reduction initiatives? Please describe.			For example, through The Climate Registry, Carbon Disclosure Project, corporate website, annual report, etc.	M3	Other GHG emissions in CO_2e (MT)		
		1-04	Do you obtain 3rd party verification of CO_2 emissions? If yes, please provide the name of the 3rd party verification firm.				M4	Scope 1 + Scope 2 GHG emissions per container throughput (MT/TEU)		
	Management System	1-05	Do you have CO_2 emissions reduction targets? If so, what are they?				M5	Target of % reduction in CO_2 (by what year, compared to what baseline)		
		1-06	Is there a designated individual or committee responsible for CO_2 emission reduction?							
		1-07	Do you have an action plan for carbon/energy management?							
		1-08	Does the committee/person responsible for meeting this goal have a clear incentive to do so (e.g. KPI)?							
	Energy Efficiency	1-09	Have you adopted any energy-efficient design features for your buildings? Please describe.							
		1-10	Have you adopted any technology or measures to improve the energy efficiency of your refrigerated containers?							
		1-11	Have you adopted any technology to improve the energy efficiency/operational efficiency of trucks and cargo-handling equipment (CHE)? Examples include:
- Rubber Tired Gantry Cranes
- Container handlers
- Forklifts
- Loaders
- Excavators			E.g. vehicle circulation optimization	M6	% of TEU moved using hybrid or electric RTG		
	Renewable Energy	1-12	Do you use renewable energy sources?				M7	Percentage of electricity sourced from renewable energy sources		
	Collaborative Supply Chain CO_2 Reduction	1-13	Do you have shore-side power available for ships?				M8	Amt of shore-side power used by ships (kWh)		
		1-14	Do you have measures in place to minimize waiting times (e.g. for ships, trucks, barges) and therefore fuel usage? Examples include:
- Requirements for minimum cargo loads
- Optimization of scheduling and communication							
		1-15	Do you have any policies or incentives for carriers to reduce CO_2 emissions? If so, what are they? (e.g. speed limits, Environmental Ship Index)							
		1-16	What is the modal split for onward transfer of freight?				M9	% of containers which leave the terminal via rail / barge / road		
SOx	Sulfur Content of Fuel	2-01	Do you use low-sulfur fuel for equipment at the terminal (e.g. cargo-handling equipment, trucks)?				M10	Average sulfur content of fuel		
NOx	Emission Control Technology	3-01	Have you adopted any emission control technologies or measures to reduce NOx emissions? If so, what?				M11	% of vehicles in compliance with Euro III or lower emission standards; % of vehicles in compliance with Euro IV or better		
	Engine Replacement	3-02	Do you have a policy or plan for replacement or rebuild of engines to improve efficiency? If so, what is it?							

Category	Sub-category	#	Question			Notes	Metric	Metric Description	
Waste (Solid and Liquid)	Management System	4-01	Do you have waste reduction targets? If so, what are they? (% by when, baseline)				M12	% reduction of general waste from previous year	
		4-02	Do you have a stated approach/policy for managing general and hazardous waste?				M13	% reduction of hazardous waste from previous year	
		4-03	Do you consistently (e.g. annual, quarterly, monthly, etc.) measure waste reduction performance against targets?						
		4-04	Do you publicly disclose/report your waste management performance?						
	Waste Disposal Facilities for Ships	4-05	Do you have facilities that enable ships to properly dispose of waste (e.g. waste sorting)? Please describe.						
Water	Wastewater Management	5-01	Do you have policies or measures in place to reduce the quantity or improve the quality of wastewater discharge?			Includes cleaning water and domestic wastewater. Limited to water used by terminals, does not include water supplied to tenants or ships.			
		5-02	Do you have a stated approach/policy for managing stormwater runoff?						
		5-03	Do you have a stated approach/policy for managing toxic spills?						
	Freshwater Conservation	5-04	Do you have water consumption reduction targets? If so, what are they? (% by when, baseline)				M14	% reduction in water consumption from previous year	
		5-05	Have you adopted any water conservation technologies or measures? If so, what?						
	Monitoring and Reporting	5-06	Do you consistently (e.g. annual, quarterly, monthly, etc.) monitor your performance on wastewater management and freshwater conservation?						
		5-07	Do you publicly disclose/report your performance on wastewater management and freshwater conservation?						
Chemicals	Management System	6-01	Do you have management procedures in place to track, safely manage, and reduce chemicals used at your terminal?						
		6-02	Do you have chemical use reduction targets? If so, what are they? (year, baseline)						
		6-03	Are employees trained on procedures related to chemical handling, disposal and emergency response?						
Environmental Management System	Management System	7-01	Do you have environmental policies?						
		7-02	Do you have a process for identifying significant environmental issues associated with your terminal operations? If so, what are the five most important environmental issues?						
		7-03	Do you have targets, at relevant functions and levels within the organization, for minimizing your environmental impacts? If so, what are they (if not already covered in above sections)?						
		7-04	Is there a designated individual or committee responsible for environmental management?						
		7-05	Are there internal training and awareness raising programs? Please describe, e.g. training topics and how many staff trained.						
		7-06	Do you have ISO 14001 or equivalent certification?						
		7-07	Do you have 3rd party assessment or verification of any environmental impacts? Please describe.						
	Green Procurement	7-08	Do you have a green procurement policy and procedures in place for products and suppliers/contractors?						
Biodiversity	Management System	8-01	Do you have management procedures in place to track and manage any biodiversity impacts?						

		8-02	Have you adopted any policies or measures to minimize your impact on biodiversity?			For example: treatment of ballast water to reduce invasive species, appropriate spatial planning for new construction, design of dredging to minimize biodiversity impacts, adoption of Integrated Coastal Zone Management, minimization of impact on coastal and estuarine ecosystems
Community	**Noise**	9-01	Do you have management procedures in place to track and manage noise produced by your terminal?			
		9-02	Have you adopted any technologies or measures to reduce noise pollution?			
	Light	9-03	Do you have management procedures in place to track and manage light pollution produced by your terminal?			
		9-04	Have you adopted any technologies or measures to reduce light pollution?			
	Communication and Engagement	9-05	Do you proactively communicate and engage in dialogue with local residents on environmental issues? What are the top three environmental issues raised by stakeholders?			

Yes
No

议题	类别		绩效指标	是/否	补充	备注		量化指标	备注	参考资料
温室气体（GHG）	计量、报告及验证	1-01	是否测量总二氧化碳排放量？				M1	范围1（Scope1）碳排放（百万吨）	范围1 及 范围2碳排放数据应包括码头物理边界范围内的所有排放，包括码头自身燃料消耗导致的排放及外购电力所带来的排放。碳排放计算应参照WRI-WBCSD《温室气体协议》(GHG Protocol)所规定的报告原则。目前针对某些特定码头的碳排放计算标准尚未对外公开。	温室气体协议 企业标准 (GHG Protocol Corporate Standard)
		1-02	是否监测并消减非二氧化碳温室气体排放？ - 甲烷 (CH₄) - 一氧化二氮 (N₂O) - 氢氟碳化物 (HFCs) - 全氟碳化物 (PFCs) - 六氟化硫 (SF₆)				M2	范围2（Scope1）碳排放（百万吨）		世界港口气候倡议 碳足迹指导纲要 (World Ports Climate Initiative Carbon Footprinting Guidance)
		1-03	是否对外披露二氧化碳排放量/或者通过其他方式公开碳减排项目情况？请描述			例如：通过气候变化注册组织（The Climate Registry），碳披露项目（Carbon Disclosure Project），公司网站，年报，等等。	M3	其他温室气体排放（百万吨二氧化碳当量）		
		1-04	碳排放数据是否通过第三方审计？如是，请提供第三方审核机构名。				M4	每单位集装箱吞吐所排放的范围1+范围2温室气体（百万吨/标准集装箱单位）		
	管理体系	1-05	是否有二氧化碳减排目标？如有，请列举。				M5	在基准年份的基础上，于某目标年份的减排量%		
		1-06	是否有专门的机构或个人负责二氧化碳减排项目？							
		1-07	是否制定了碳排放/能源管理动计划？							
		1-08	是否有明确的激励机制给予专门负责二氧化碳减排项目的机构或个人（例如绩效指标）？							
	能源效率	1-09	是否采用任何建筑节能设计？如是，请描述。							
		1-10	是否采用任何技术或手段以提升冷藏集装箱的能效？							
		1-11	是否采用任何技术以提升货物装卸设备的能效或使用效率？ - 轮胎式龙门起重机（Rubber Tired Gantry Cranes） - 集装箱装卸机（Container handlers） - 叉车（Forklifts） - 装载机（Loaders） - 挖掘机（Excavators）			例如：车辆循环优化	M6	通过混合动力或者电动轮胎式龙门起重机搬运的20英尺标准集装箱占总集装箱处理量的百分比		
	可再生能源	1-12	是否使用可再生能源？				M7	购入的由可再生能源所发电力占总购买电力的百分比		
	供应链合作实现碳减排	1-13	是否为停泊船只提供岸电？				M8	停泊船只所使用的岸电总量（千瓦时）		
		1-14	是否采取任何措施减少等候时间（例如：船舶，卡车，驳船等）进而减少燃料使用？ - 最低装载量要求 - 优化调度及沟通							
		1-15	是否提供任何政策或激励机制鼓励船公司减少二氧化碳排放？如有，请列举（例如：近港航速限制，环保船舶指数Environmental Ship Index）							
		1-16	集装箱通过何种运输方式离开码头？				M9	通过铁路/驳船/公路运输离开码头的集装箱所占百分比		
二氧化硫（SOx）	燃料含硫量	2-01	码头设备是否使用低硫燃料（例如：集装箱装卸设备，卡车等）？				M10	燃料评价含硫量		
氮氧化物（NOx）	排放控制技术	3-01	是否采用任何排放控制技术或手段以减少氮氧化物排放？如是，请列举。				M11	符合欧3或更早排放标准的车辆占总车辆的百分比；符合欧4或更严格排放标准的车辆占总车辆的百分比		
	更换引擎	3-02	是否有任何替换或改造旧引擎的计划或政策？如有，请列举。							
废弃物（液体和固体）	管理体系	4-01	是否有废弃物削减目标？如有，请列举（基准年，目标年及消减百分比）。				M12	与前一年相比，常规废弃物消减百分比		
		4-02	是否有管理常规和危险废弃物的成文规定？				M13	以前一年相比，威胁废弃物消减百分比		

		4-03	是否**持**续参照既定目标测量评估废弃物**削减**绩效（例如：年度、季度、月度等）？				
		4-04	是否向社会公布废弃物管理绩效？				
	为船舶提供废弃物处理设施	4-05	是否为船舶提供必要设施以帮助他们妥**善**处理废弃物（例如：废弃物分类服务）？请描述。				
水	污水管理	5-01	是否有相关政策或手段减少污水排放量，或改善排出污水的质量？		**包括清水及生活**污水。仅限于码头自身所消耗的水资源，**并不包括**为租客及船舶提供的水资源。		
		5-02	是否有管理雨水径流的成文规定？				
		5-03	是否有管理有害物质泄露的成文规定？				
	节水	5-04	是否有节水目标？如有，请列举（基准年，目标年及节水百分比）。			M14	与前一年相比，节水百分比	
		5-05	是否采取任何节水技术或手段？如有，请列举。				
	监测及报告	5-06	是否持续测量评估污水管理及节水绩效（例如：年度、季度、月度等）？				
		5-07	是否向外公布污水管理及节水绩效？				
化学品	**管理体系**	6-01	是否有跟踪化学品使用、安全管理及削减化学品用量的管理制度？				
		6-02	是否有化学品用量削减目**标**？如有，请列举（年份，基准）。				
		6-03	员工是否接受过与化学品使用、废弃化**学品**处理及应急响应相关的操作培训？				
环境管理体系	**管理体系**	7-01	是否有环境政策？				
		7-02	是否有评估/**确**认与码头运营相关的重大环境影响的机制/**方法**？如有，请列举五项最重大的环境影响。				
		7-03	是否有细化至码头各个职能部门的环境影响削减目标？如有（且未在上述其他环境指标中涵盖），请列举。				
		7-04	是否有专门负责环境管理的机构或个人？				
		7-05	是否有内部的培训及意识提升项目？请描述，**例如**：培训议题、参与人数等				
		7-06	是否具有ISO14001或同等环境管理体系认证？				
		7-07	是否接受过第三方环境影响评估或认证？请描述。				
	绿色采购	7-08	是否有绿色采购政策用以指导产品采购**或供**应商筛选？				
生物多样性	**管理体系**	8-01	是否有跟踪并管理码头对于生物多样性影响的管理制度？				
		8-02	是否采取任何技术手段或管理手段以减少码头对于生物多样性的影响？		例如：处理压载水以减少物种入侵的风险。对于新的施**工**项目有合理的空间规划，**清淤**设计有利于减少对生物**多**样性的影响，采用海岸带综合管理手段，海岸及河口**生**态系统影响最小化		
社区	**噪声**	9-01	是否有跟踪并管理贯码头所产生的噪声污**染**的管理制度？				
		9-02	是否采用任何技**术**或手段减少噪声污染？				
	光	9-03	是否有跟踪并管理贯码头所产生的光污染的管理制度？				
		9-04	是否采用任何技**术**或手段减少光污染？				
	沟通和参与	9-05	是否积极的与当地居民就环境问题展开对话？请列举贯码头利益相关方所提出的**三大环境问题**。				

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