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Research Article

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Economic Analysis of Vessel SOx Emission Reduction Measures in the Context of China

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Abstract With the rapid development of the world trade, the shipping industry is experiencing a rapid increase. Yet, there is an urgent issue deserving much attention. Ships produce substances that cause air pollution. For example, the flue produces NOx, COx, especially SOx. The impact of the massive emissions of these substances to the atmosphere is increasing.

In the context of IMO, the MARPOL Convention was implemented in January 2020. As I know, MARPOL Annex VI lowered the global sulfur emission standard from 3.5% to 0.5%. It focuses on no marine pollution but air pollution not only in China, but also in the world. Normally, there are two measures for controlling SOx emission, one is using low sulphur bunker, another one is Scrubber. This project comprehensively analyzes the current status and problems of ship's air pollution emissions, analyzes the main emission reduction measures to reduce ship's atmospheric emissions, and conducts economic analysis of emission reduction measures. I will apply both Quantitative and Qualitative methods to select which way is much better to control SOx emissions, so as to provide decision supports for the formulation and implementation of emission reduction measures in China.

Keywords Air pollution, MARPOL, Control emission, Reduction measure, Scrubber, Low-sulphur bunker

Introduction

According to the information provided by Norway to IMO¹, Norwegian ships emit NOx 6.02 million tons per year, which accounts for 7% of the world's total emissions; SOx 6.34 million tons, accounting for 4% of the world's total emissions; COx annual emissions approximately 1.24 million tons, accounting for 2% of the world's total emissions; VOC380,000 tons (Christer Ågren AirClim 2019). The polluted atmosphere can affect the climatic and coastal countries beyond 1000 km away. Among the pollutants, SO2 and SO3 in SOx are the culprit of acid rain.

The 70th MEPC² meeting held in October 2016 lowered the global sulfur emission standard from 3.5% to 0.5%, and the MEPC decided to start implementation of MARPOL³ on January 1, 2020.

The policy of controlling sulfur emissions in the European Union and North America is also very strict. The EU in advance implemented the sulfur oxide emission standard in MARPOL 73/78 Annex VI before 2020, and gradually expanded the scope of application of the sulfur emission standard. North America has also advanced the implementation time of sulfur emission control standards. From this, it can be seen that the international community is accelerating the legislative process and continuously strengthening the control of ship sulfur emissions in China.

¹IMO: International Maritime Organization

²MEPC: Maritime Environment Protection Committee

³MARPOL: Maritime Agreement Regarding Oil Pollution of Liability

China is a major country in international trade, and the issue of shipping emissions control is quite important. This article analyzes the current status of air emissions from ships, and analyzes the main measures for controlling ships' SOx emissions, and the economic analysis of emission reduction measures provides decision supports for the formulation and implementation of emission reduction measures for shipping companies in China.

In this research, research questions narrow the purpose down into specific questions that the researcher would like to answer or address in the study. I will ask, "which way is better for control SOx emission in China? -- Scrubber? --Low sulphur bunker?

Materials and Methods

1. Quantitative research

In this case the subject of study is a container ship operating between ports of Mainland China and Taiwan. The basic information, including information about engine, bunkers and shifts is provided by the shipping company (Table 1). The ship uses Tier II middle speed diesel engine (MSD).

Ship information:							
Туре	TEU	Main power (KW)	7980				
Speed (knot)	18	Host speed (r / min)	148				
Year of manufacture	2014	Engine type	MSD				
The maximum load (ton)	12613	Engine standard	TierI				
Capability (TEU)	831	Engine fuel type	HFO				
Length(m)	144.83	High sulphur fuel sulfur	2.2				
Maximum draft(m)	8.2	Low sulfur oil fuel type	MGO				
Auxiliary power(KW)	1680	Diesel sulfur content%	0.118				

Note: MSD⁴ (Middle Speed Diesel) means medium-speed diesel engine; HFO⁵ means heavy bunker oil; MGO⁶ means marine gas oil; Tier I, II and III represents engines manufactured in 2000-2010, 2011-2015 and after 2016, respectively. Tier III engines are mainly used in nitrogen emission control zones in the United States.

The time frame of this study is September 6 – 13, 2019. The ship carries out approximately 44 voyages a year; each lasts 8 days and thus the total days in service is 352 days. I will comprehensively consider the ship's current status of emission and how installing a scrubber and using LSFO⁷ would affect energy consumption and emission. Starting from October 1, 2018, ships bound for the port of Ningbo-Zhoushan that have entered the Ship Emission Control Area in Waters of Yangtze River Delta (SECAWYRD) shall use LSFO with sulfur content $\leq 0.5\%$ m/m.

There are three options below to analyze the different scenarios of using low sulfur fuel and scrubber. Through comparing them, we could find out which way is more cost-effective.

1.	High-sulfur oil	No emission reduction
		measures and use the high
		sulphur bunker
2.	0.5%+0.5%(sulphur emission	0.5% diesel elsewhere (global
	control area)	and SECAWYRD standard)
3	Exhaust gas processing device	HFO for main and auxiliary
		engines and reach 0.5%

The first scheme is the current status of the ship – that is, no emission reduction measures have been applied. The ship now uses diesel only at berths in the SECAWYRD (emission control zone of the Yangtze River Delta), while in other places 2.2% high sulphur bunker (HFO) is allowed. According to survey data, HFO contains 2.2% of sulfur while diesel contains only 0.1%.

⁴MSD: Middle Speed Diesel

⁵HFO:Heavy FuelOil

⁶MGO: Marine Gas Oil ⁷LSFO: Low Sulphur Fuel Oil

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The second scheme is that the ship uses low sulphur bunker with 0.5% sulfur content (hereinafter 0.5% low sulphur fuel oil) in and outside the SCARWYRD. This scheme would be executed if in 2020 0.5% Low sulphur fuel oil and above is allowed in non-emission-control areas worldwide, and in the SECAWYRD 0.5% low sulphur fuel oils is allowed.

The third scheme assumes that a closed-loop exhaust gas processing device is applied. Both main and auxiliary engines still use 2.2% HFO, and thus the device shall process sulfides to meet the 0.1% cap in the SECAWYRD and the 0.5% standard worldwide.

The following table is calculation about the normal bunker NPV and IRR, and I also following the same method to calculate others plan.

				1	variable cost	15897409.2	RMB						
Data collection:	Total start-up fund	412,538	USD		Fuel	8906409.198	RMB						
	Loan percent	0.8		1.2	Light oil	621000							
	Loan amount	330,030	USD	1.3	Engine oil	108000	RMB						
	Ballon payment		USD	1.4	Maintenance cost	3100000	RMB						
	Libor	1.92%		1.5	Port fee	660000	RMB						
	Margin	2.68%			Marketing fee	693000	RMB						
	Operating Days	352	days		administration fee	270000	RMB						
	Facility term		years		crew wage	1539000							
	Daily OPEX	6875.63			Fixed cost	6036150							
	Annual increase	2.0%			Manager wage	342000							
	T/C rates	8863.64			Depreciation	4350000							
	Interest	4.601%			Insurance	1344150							
			dava		Account fee	2458381							
	Install tower time	78000				2458381 24391940.2							
	Vovage income				Total cost								
	Desulfurization tower		RMB		Operating cost	17583559.2							
			S	6	Year OPEX hand								
	Exchange rate	7.0065		7	Operation cost fo		RMB						
	Fuel Consume	7.2	tone/day			0	S						
	Total fuel	2534.4	tone	8	Total cost	6875.634738	\$						
Financial cost													
r manciai cost	YEAR	Yea	a1		Year 2	Y	ear 3	Y	ear 4	Ye	ar 5)	(ear 6
and Operating cost		HALF1	HALF2	HALF1	HALF2	HALF1	HALF2	HALF1	HALF2	HALFI	HALF2	HALF1	HALF2
and operating cost		HALFI	HALF2	HALF1	HALP2	HALFI	HALFS	HALFI	HALF2	HALFI	HALF2	HALFI	HALF2
	Loan at the beginning	330,030	297,027	264,024	231,021	198,018	165,015	132,012	99,009	66,006	33,003		(33,
	Long at the ofginning						105,015						(33)
	Interest	7,592	6,833	6,074	5,315	4,555	3,796	3,037	2,278	1.518	759	-	
	Capital	33,003	33,003	33,003	33,003	33,003	33,003	33,003	33,003	33,003	33,003	33,003	33.
		(
	Total instalment(C+I)	40,595	39,836	39,077	38,318	37,558	36,799	36,040	35,281	34,522	33,762	33,003	32,
	Loan amount remain after the half year	297,027	264,024	231,021	198,018	165,015	132,012	99,009	66,006	33,003		(33,003)	(66
	Number of Operating days	176.00	176.00	176.00	176.00	176.00	176.00	176.00	176.00	176.00	176.00		
	financial break even per day	231	226	222	218	213	209	205	200	196	192	188	
	Balloon Payment	(
		(
	Operating Expenses												
	Daily Expenses	6,876	6,876	7,013	7,013	7,013	7,013	7,013	7,013	7,013	7,013	7,013	7.)
	Number of Days (Operating Expenses)	182.50	182.50	182.50	182.50	182.50	182.50	182.50	182.50	182.50	182.50	182.50	183
	Total OPEX per half year	1,254,803	1,254,803	1,279,899	1,279,899	1,279,899	1,279,899	1,279,899	1,279,899	1,279,899	1,279,899	1,279,899	1.279.
	Equivaluent OPEX per day (350days of employment)	7,130	7,130	7,272	7,272	7,272	7,272	7,272	7,272	7,272	7,272	7,272	7
	Toral Expenses (CAPEX + OPEX) per equivalent earning days	7.260		7.101	7,000		2.00	2.422	7.071	2.446	2.444	2.60	
									1,010	1,400	7,404	1,100	-
						7,486							
	-					7,486							
Canital process:	YEAR	Yes			Year 2		ear 3		rar 4		ar 5		(ear 6
Capital process:	half year	HALFI	HALF2	HALFI	HALF2	HALF1	HALF2	HALFI	HALF2	HALFI	HALF2	HALFI	HALF2
Capital process:	half year Operating days	HALF1 176.00	HALF2 176.00	HALF1 176.00	HALF2 176.00	HALF1 176.00	HALF2 176.00	HALF1 176.00	HALF2 176.00	HALF1 176.00	HALF2 176.00	HALF1 176.00	HALF2 17
Capital process:	half year Operating days Daily T/C rates	HALF1 176.00 8,864	HALF2 176.00 8,864	HALF1 176.00 8,864	HALF2 176.00 8,864	HALF1 176.00 8,864	HALF2 176.00 8,864	HALF1 176.00 8,864	HALF2 176.00 8,864	HALF1 176.00 8,864	HALF2 176.00 8,864	HALF1 176.00 8,864	HALF2 17 8
Capital process:	half year Operating days Daily T/C rates Operating revenue	HALF1 176.00 8,864 1,560,000	HALF2 176.00 8,864 1,560,000	HALF1 176.00 8,864 1,560,000	HALF2 176.00 8,864 1,560,000	HALF1 176.00 8,864 1,560,000	HALF2 176.00 8,864 1,560,000	HALF1 176.00 8,864 1,560,000	HALF2 176.00 8,864 1,560,000	HALF1 176.00 8,864 1,560,000	HALF2 176.00 8,864 1,560,000	HALF1 176.00 8,864 1,560,000	HALF2 17 8 1,560
Capital process:	half year Operating days Dally T/C rates Operating revenue Operating Expenses	HALF1 176.00 8,864 1,560,000 (1,254,803)	HALF2 176.00 8,864 1,560,000 (1,254,803)	HALF1 176.00 8,864 1,560,000 (1,279,899)	HALF2 176.00 8,864 1,560,000 (1,279,899)	HALF1 176.00 8,864 1,560,000 (1,279,899)	HALF2 176.00 8,864 1,560,000 (1,279,899)	HALF1 176.00 8,864 1,560,000 (1,279,899)	HALF2 176.00 8,864 1,560,000 (1,279,899)	HALF1 176.00 8,864 1,560,000 (1,279,899)	HALF2 176.00 8,864 1,560,000 (1,279,899)	HALF1 176.00 8,864 1,560,000 (1,279,899)	HALF2 17 8 1,560 (1,279)
Capital process:	half year Operating days Daily TC rates Operating revenue Operating Expenses Gross Revenue	HALF1 176.00 8,864 1,560,000 (1,254,803) 305,197	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101	HALF2 17 8 1,560 (1,279 280
Capital process:	half year Operating days Dahly TC rates Operating revenue Operating Tapenes Gross Revenue Capital Payament	HALF1 176.00 8,864 1,560,000 (1,254,803) 305,197 (33,003)	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197 (33,003)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF2 17 8 1,560 (1,279 280 (33,
Capital process:	half year Operating days Dally TC raise Operating revenue Operating revenue Operating revenue Operating Pagenese Genos Revenue Capital Payment Intervert Payment	HALF1 176.00 8.864 1,560,000 (1,254,803) 305,197 (33,003) (7,592)	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197 (33,003) (6,833)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (5,315)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (4,555)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (3,796)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (3,037)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (2,278)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (1,518)	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (759)	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003)	HALF2 17/ 8 1,560 (1,279, 280, (33,
Capital process:	half year Operetting days Dally, TCC rates Operating reveaue Operating reveaue Operating reveaue Operating Superson Operating Superson Operating Superson Capital Paramett Instruct Daysment Instruct Daysment Net Cash Paw	HALF1 176.00 8.864 1.550,000 (1,254,803) 305,197 (33,003) (7.592) 264,601	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197 (33,003) (6,833) 265,360	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024	HALF2 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (5,315) 241,783	HALF1 176.00 8,864 1.560,000 (1,279,899) 280,101 (33,003) (4,555) 242,542	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (3,796) 243,301	HALF1 176.00 8,854 1,560,000 (1,279,899) 280,101 (33,003) (3,037) 244,061	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (2,278) 244,820	HALF1 176.00 8.864 1,560,000 (1,279,899) 280,101 (33,003) (1,518) 245,579	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (759) 246,338	HALF1 176.00 8.864 1,560,000 (1,279,899) 280,101 (33,003) - 247,098	HALF2 17 8 1,560 (1,279 280 (33 247
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Capital process:	half year Operating days Daily TC rates Operating reveatures Operating reveatures Grew Reveatures Grew Reveatures Grew Reveatures Grew Reveatures Grew Reveatures Antonio Paymont Dataset States Character States Conference Athliana Paymont Character States of the vector	HALF1 176.00 8.864 1.550,000 (1,254,803) 305,197 (33,003) (7.592) 264,601	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197 (33,003) (6,833) 265,360	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024	HALF2 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (5,315) 241,783	HALF1 176.00 8,864 1.560,000 (1,279,899) 280,101 (33,003) (4,555) 242,542	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (3,796) 243,301	HALF1 176.00 8,854 1,560,000 (1,279,899) 280,101 (33,003) (3,037) 244,061	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (2,278) 244,820	HALF1 176.00 8.864 1,560,000 (1,279,899) 280,101 (33,003) (1,518) 245,579	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (759) 246,338	HALF1 176.00 8.864 1,560,000 (1,279,899) 280,101 (33,003) - 247,098	HALF2 17) 8, 1,560, (1,279, 280, (33, 247,
Capital process:	half year Operating dryn Der Troff were Der Troff were Operating Expresses Gress Revense Capital Payment Cress Revense Capital Payment Accountiether Cach Flow Balleas Payment Data Payment Cach Flow Cach Payment Data Payment Data Payment Data Payment Data Payment	HALF1 176.00 8.864 1,560,000 (1,254,803) 305,197 (33,003) (7,592) 264,601 264,601 264,601	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197 (33,003) (6,833) 265,360 520,962 265,360	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024 770,985 241,024	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (5,315) 241,783 1,012,768 241,753	HALF1 176.00 8,844 1,560,000 (1,279,889) 280,101 (33,003) (4,555) 242,542 1,255,310 242,542	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (33,706) 243,301 1,409,612 245,301	HALF1 176.00 8,854 1,560,000 (1,279,899) 280,101 (33,003) (3,037) 244,061 1,742,672 244,061	HALF2 176.00 8.864 1,560,000 (1,279,889) 280,101 (33,003) (2,278) 244,820 1,987,492 244,820 1,987,492	HALF1 176.00 8,864 1,560,000 (1,279,399) 280,101 (33,003) (1,518) 245,579 2,233,071 245,379	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (3,003) (759) 246,338 2,479,410 246,358	HALF1 176.00 8,864 1,560.000 (1,279,899) 280,101 (33,003) - 247,098 2,726,507 247,098	HALF2 177 8 1,560 (1,279, 280 (33, 247, 2,974, 247,
Capital process:	half year Operating days Daily TC rates Operating revenue Operating revenue Operating travenue Capital Dynami Larvest Payment Larvest Payment Accumulated Cash Ilew Accumulated Cash Ilew Ballona Payment Accumulated Cash Ilew Ballona Payment Feel Net Cash Thew Test Net Cash Thew YEAR	HALF1 176.00 8.864 1.550,000 (1,254,803) 305,197 (33,003) (7,592) 264,601 264,601 Yes	HALF2 176.00 8,884 1,560,000 (1,254,803) 305,197 (33,003) (6,833) 265,360 529,962 2255,360 r 1	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024 241,024	HALF2 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (5,315) 241,783 1,012,768 241,783 Year 2	HALF1 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (4,555) 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (3,709) 243,301 1,498,612 245,301 ear 3	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,001 (3,037) 244,061 1,742,672 244,061 344,061 344,061 344,061	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (3,3,003) (2,278) 244,820 1,987,492 244,820 244,820 car 4	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (1,518) 245,579 2,233,071 245,579 Ve	HALF2 176.00 8.864 1.560,000 (1,279,889) 280,101 (33,003) (759) 246,338 2,479,410 246,338 246,338 ar 5	HALF1 176.00 8.864 1,560,000 (1,279,899) 280,101 (33,003) 247,098 2,726,507 247,098	HALF2 177 8 1,560 (1,279, 280 3 247 2,974 247 (car 6
Capital process:	half yeer Operating days Daily TCC nets Operating Typeron Operating Typeron Gross Reveaue Capital Payment Latente Payment Latente Payment Accessmithed Cach Rev Ballissen Payment Exhausted Saids of die vessel Typer Daily of the Said Saids of Saids Daily Saids	HALF1 176.00 8,864 1,550,000 (1,24,803) 305,197 (33,003) (7,592) 264.601 264.601 264.601 Yea HALF1	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197 (6,833) 205,560 529,962 205,360 ar 1 HALF2	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024 770,985 241,024 HALF1	HALF2 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (5,315) 241,783 1,012,768 241,783 Year 2 HALF2	HALF1 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (4,555) 242,542 1,255,310 242,542 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 242,542 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,310 1,255,	HALF2 176.00 8,564 1.560,000 (1,279,899) 280,101 (33,003) (3,796) 243,301 1,498,612 243,301 4,498,612 243,301 HALF2	HALF1 176.00 8.864 1.560,000 (1,279,899) 280,101 (33,003) (3,037) 244,061 1.742,672 344,061 Y HALF1	HALF2 176.00 8.664 1.560,000 (1,279,899) 280,101 (33.003) (2,278) 244,820 1,987,492 244,820 244,820 244,820 4,827 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 245,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 2	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (1,518) 245,579 2,233,071 245,579 245,579 Ye HALF1	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (759) 246,338 2,479,410 246,338 ar 5 HALF2	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) 247,098 2,726,507 247,098 347,098	HALF2 177 8 1,560 (1,279, 280, (1,279, 280, (33, 247, 2,974, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247, 247,
Capital process:	half year Operating days Dath: TC rates Operating reveaus Operating reveaus Operating reveaus Operating reveaus Operating reveaus Capital Payment Extension Payment Extension Solution Extension Solution Extension Extension Solution Extension Solution Extension	HALF1 176.00 8,864 1,550,000 (1,254,803) 305,197 (33,003) (7,592) 264,601 264,601 264,601 Yea HALF1 Yea	HALF2 176.00 8,854 1,560,000 (1,254,803) 305,197 (33,003) 265,360 529,962 205,360 r1 HALF2 330,030	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024 770,985 241,024 HALF1 288,777	HALF2 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (5,315) 241,783 1,012,768 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,783 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785 241,785	HALF1 176.00 5,864 1,560,000 (1,279,899) 280,101 (33,003) (4,555) 242,542 1,255,310 242,542 Y HALF1 206,269	HALF2 176.00 8.844 1.560,000 (1,279,899) 280,101 (33,003) (3,709) 243,301 1.409,612 243,301 HALF2 HALF2 165,015	HALF1 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (34,005) 1,742,672 244,061 1,742,672 244,061 1,742,672 244,061 1,23,761	HALF2 175 00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (2,278) 244,820 1,987,492 244,820 244,820 4,827 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 244,820 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 245,840 2	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (1,518) 245,579 2,233,071 245,579 Xe HALF1 41,254	HALF2 176.00 8.864 1.560,000 (1,279,889) 280,101 (33,003) (759) 246,338 2,479,410 246,338 ar 5	HALF1 176.00 8.854 1,560,000 (1,279,899) 280,101 (33,003) 	HALF2 17 8 1,560 (1,279 280 3 (33 247 2,974 247 247 (car 6 HALF2 (82
Capital process:	half year Operating days Operating days Operating traverses Operating traverses Operating traverses Gress Revense Capital Forumat Larenet Parumat Larenet Parumat Net Cash Ibes Cubin Cash Ibes Cubinated Salas of the vesual Tatal NC Cash Ibes Parks Distance Tatal Devenses Tatal NC Cash Ibes	HALF1 176.00 8,864 1,550.000 (1,224,803) 305.197 (33.003) (7,592) 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 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1,255,312 1,255,312 1,255,312 1,255,312	HALF2 176.00 8.864 1.560.00 (1,279.899) 280.101 (33.003) (2,790) 243.301 1,498.612 443.301 1,498.612 443.401 1,498.612 140.F2 105.015 132.012	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) (3,037) 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340,820,820,820,820,820,820,820,820,820,82	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,011 (33,003) (1,518) 245,579 2,233,071 245,879 Ye HALF1 41,254 33,003	HALF2 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (759) 246,338 2,479,410 20,538 ar 5 HALF2 (0)	HALF1 176.00 8,864 1,569,000 (1,279,899) 280,101 (33,003) 247,098 2,726,507 247,098 247,098 4ALF1 (41,254) (33,003)	HALF2 177 8 1,560 (1,279) 280 3 247 247 247 (car 6 HALF2 (82, (66,
Capital process:	half year Operating days Dath: TC rates Operating reveaus Operating reveaus Operating reveaus Operating reveaus Operating reveaus Capital Payment Extension Payment Extension Solution Extension Solution Extension Extension Solution Extension Solution Extension	HALF1 176.00 8,864 1,550,000 (1,254,803) 305,197 (33,003) (7,592) 264,601 264,601 264,601 Yea HALF1 Yea	HALF2 176.00 8,854 1,550,000 (1,254,803) 305,197 (33,003) (6,833) 265,380 529,962 1 HALF2 330,030 264,024	HALF1 176.00 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 241,024 770,985 241,024 HALF1 288,777	HALF2 176.00 8,864 1,550,000 (1,279,899) 280,101 (33,003) (5,315) 241,783 1,012,765 241,783 1,012,765 241,783 102,765 241,783 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 102,765 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	half year Operating days Dauly TC rate Operating reveature Operating reveature Green Reveature Case Mervane Case Case Format Case Case Format Case Case Format Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case Case	HALF1 176.00 8,864 1,550.000 (1,224,803) 305.197 (33.003) (7,592) 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 264.601 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IRR CACULATIO	half year Operating days Dath: TC: nets Dath: TC: nets Operating Expression Operating Expression Grows Revease Capital Deparent Net Cash Brow Accessmithatic Cash Brow Accessmithatic Cash Brow Accessmithatic Cash Brow Expression Ballsone Program Ballsone Program	HALF1 176.00 8.864 1.569.000 (1,254.803) (2,54.803) (7,592) 284.601 264.601 264.601 Yes HALF1 371,284 297.284 125.00%	HALF2 176.00 8,864 1,560,000 (1,254,803) 305,197) (3,3097) 305,197) (6,838) 265,360 520,062 HALF2 330,030 266,024 125,00%	HALF1 176.00 8.864 1.560,000 (1.279,890 280,101 (33,003) (6.074 241,024 770,985 241,024 HALF1 288,777 231,021 125.00%	HALF2 176.00 8.864 1.560.000 (1,279,890 (1,279,890 (1,278,890 (1,278,890 (1,278,890 241,783 1,012,765 241,783 241,785 241,785 10,127,523 108,018 125%	HALF1 176.90 8,864 1,550,000 (1,278,890) (280,101) (33,003) (4,559) 242,542 1,255,310 242,542 Y HALF1 205,269 165,015 1255 ₈	HALF2 HALF2 176.00 8.864 1,556,000 (1,279,899) 280,101 (3,2003) 244,301 1,408,612 244,301 1,408,612 244,301 1,408,612 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,520 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,5200 144,52000 144,52000 144,5200000000000000000000000000000000000	HALF1 176.90 8.854 1.560,000 (1,279,890) (3,003) (3,003) (3,003) (3,003) (3,003) (3,003) 280,101 (3,003) 280,101 (3,003) 280,101 (3,003) (3,003) 244,081 Y HALF1 123,761 99,009 125%	HALF2 176.00 8.864 1.550.000 (1.270.899) 280.101 (3.3003) 244.820 1.087,492 244.820 1.087,492 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 244.820 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.908 245.9088 245.9088 245.908 245.908 245.908 245.	HALFI 175.00 8.864 1,560,000 (1,279,859) 280,101 (33,001) (33,001) (3,518) 245.579 2,233,071 245.579 Ke HALF1 41,254 33,003 125%	HALF2 176 00 8,864 1,560,000 (1,279,889) 280,101 (33,003) (759) 246,338 2,479,410 246,338 45 HALF2 (0) #DEV/01	HALF1 176 00 8.864 1,560,000 (1,279,899) 280,101 (33,003) 247,098 247,098 247,098 247,098 247,098 (33,003) HALF1 (41,254) (33,003) 125%	HALF2 17: 8: 1.560 1.570 280 280 280 280 280 280 247 2974 247 247 247 247 247 247 247 2
IRR CACULATIO	half year Opersting days Daily TC rate Opersting sevents Opersting sevents Green Revents Caren Core Revents Core Revents Core Core Core Core Core Core Core Core	HALF1 176.00 8.864 1,550,000 (1,224,803) 305,107 (33,007) (33,007) (33,007) (35,007) (35,007) 264,601 264,601 264,601 264,601 Ves HALF1 371,284 297,027 125,00% Ves	HALF2 176.00 8.864 1.560,000 (1.254,803) 305,197 (33,007) (6,833) 265,360 529,962 HALF2 330,030 264,024 125,00% 1	HALF1 176.000 8,864 1,560,000 (1,279,899) 280,101 (33,003) (6,074) 280,101 (33,003) (6,074) 280,101 (33,003) (6,074) 280,101 (33,003) (6,074) 280,101 (33,003) (6,074) 280,101 (33,003) (6,074) 280,101 (33,003) (6,074) (33,003) (6,074) (33,003) (6,074) (33,003) (6,074) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) (34,004) 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1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 1,012,768 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IRR CACULATIO	half year Operating days Daily TCC nets Daily TCC nets Operating Capase Operating Capase Operating Capase Operating Capase Operating Capase Net Cash Bark Accommutation Cash Bark Accommutation Cash Bark Accommutation Cash Bark Accommutation Cash Bark Accommutation Cash Bark Team Found and Accommutation Team Found and Accommutation Team Found and Accommutation Market Cash Bark Team Found and Accommutation Team Found Accommutation Team Found Accommut	HALF1 175.00 8.864 1.559.000 (1,244.803) 305.197 (33.003) 7.592 264.601 251.901 Yes HALF1 Yes HALF1 270.27 125.00% Yes HALF1 254.601	HALF2 176.00 8.864 1.550,000 0.(1,24,803) 305,197 (0,33,003) 263,360 520,962 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 1201,300 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2. Qualitative research

From above cash-flow calculation, we got the cost situation and profit situation due to both two methods. Aiming to understand the situation of in the real world of the shipping company how to control SOx emission, I design a interview to analyse advantages and disadvantages of scrubber and Low sulphur bunker. The first step is that we need to determine the final number of interview people (Hunter, 2002). I select 20 people, who are working in shipping industry to join this interview. Different from a survey, an interview needs to respect the interviewees by using expressions as close as possible to the interviewees and their expressions, so as to avoid some unnecessary misunderstandings and resonate with the interviewees (Sharma, 2009). For example, most of the interviewees are shipping industry staff in this Interview, and try to make them understand in straightforward language. As for face-to-face interviewees, I will try to take a recording after the interviewees agree so that I can analyze the results later. If any interviewee is unable to conduct a face-to-face interview, as said in the above survey, Facebook and WeChat are also acceptable. The interview questions are in both Chinese and English for recording.

Different from a survey, an interview may encounter communication problems: (1) the respondents refuse to answer (2) the interview location is highly disturbed (3) the respondents are impatient during the interview, etc. My way of dealing with them is not to offend the taboos of the interviewees but keep the conversation harmonious, and leave controversial issues to the end. It is also important for interviewees to express their ideas as freely as possible (Sharma, 2009). the following is the table of interview form.



No.		Time		Location	6					
Interviewee		Position		Company of the Interviewee	E					
Email		Questioner		Note-keeper						
Interview opening:			I	L						
Hello, I am a master student of International Maritime University (ITL). Since the IMO is about to implement MARPOL convention										
worldwide to limit sulfur emissions from ships and reduce environmental pollution from ships. I am currently conducting an										
interview on whether shipping companies choose to install desulfurization scrubber to reduce sulfur emissions or use low-sulfur oil to										
reduce sulfur emissio	ns. So if I may, take yo	u a few precious minut	tes to complete this inte	erview. This interview i	s mainly conducted in					
the form of Q & A. T	he interview content w	ill be kept strictly cont	fidential! To ensure the	effectiveness of the int	erview, please answer					
each question truthfu	lly. The interview will	take approximately 15-	-20 minutes to complete	e.If there is no doubt, le	et's get started!					
Contents:										
Q: Please briefly descri	ibe the scope and conten	t of your work.								
A:										
Q: Are your company a	still using scrubber for c	ontrol SOx emission and	l your company also usir	ıg Low sulphur bunker o	rnot?					
A:										
Q: Which kind scale of	f your company?									
A:										
Q: Is your company st	llusing scrubber to cont	rol <u>SOx</u> emissions and i	s your company also usi:	ng Low sulphur bunker?						
A:										
Q: What is the disadva	ntage of using scrubber (that your company cann	ot accept?							
A:										
Q: What is the disadva	ntage of using Low sulp	hur bunker that your cor	npany cannot accept?							
A:										
Q: Willoil prices affec	t your company's decisi	on making?								
A:										
	is the first thing to consi	derwhen choosing to giv	veupusing scrubber or u	ise low-sulfur oil?						
A:										
	consider this factor in t	he first place?								
A:										
	licy afflicting your comp	any's makechoice?								
A:										
Steps ofInterview: (1)	Observe the interview s	ite; (2) Draw subjects; (3	3) Start the interview and	irecord (4) Reflect and e	valuate the interview					
Privacy statement:										
-	t involve any personal p									
2. All survey related in	formation will be encryp	oted and saved in the cos	mputer and destroyed aft	er the study.						

Results & Discussion

1. Quantitative research result

	IRR	NPV
High sulphur+0.1%	<mark>6</mark> 35%	2518752.807
0.5%+MGO(sulphur emission control area)	331%	1333492.299
Desulfurization tower	204%	1824119.260

As is shown in the chart: to compare with the IRR and NPV from plan1 to plan 3. In the first chart (to compare with the IRR), the largest number of IRR is using the normal high sulphur bunker, without any solution for controlling sulphur emission, accounting for 635%. The next largest one is using 0.5% low sulphur fuel oil, being 331%, which is 204% lower than the former using high sulphur bunker and using 0.5% bunker.By way of contrast, the least IRR for using scrubber and this figure is only 204%.

In the second part of the chart related to NPV. Clearly, differentfrom IRR, using the normal high sulphur bunker has the highest number of NPV, it is about 2.5million. Using scrubber comprises the next largest NPV (1.8 million). By contrast, using 0.5 % low sulphur fuel oil is the smallest number of NPV, which is only 1.3million.

	IRR	NPV
High sulphur+MGO	2644%	6201486.88
0.5%+MGO(sulphur emission control area)	2173%	5520220.83
Desulfurization tower	1445%	5768753.37



In order to ensure the accuracy of the results, I have selected another set of shipping bunker data from Japanese to calculate and analyze. I selected a set of data on May 4th 2020. The high sulphur bunker price is138.64\$, and 0.5 low sulphur fuel oil is 215.5\$. The above is the result of the IRR and NPV in each plan. From the above table, we can find that the IRR have the same situation with the bunker used in shanghai:

IRR (High sulphur bunker) >IRR (0.5% Low sulphur bunker) > IRR (scrubber).

And the NPV also has the same situation:

NPV (High sulphur bunker) > NPV (scrubber)>NPV (0.5% Low sulphur bunker).

However, further analyses of the costs of emission reduction measures show that low sulphur fuel oil are better than scrubber, from a cost-effective perspective (Arof, A. 2018). The cost-benefit analysis of emission reduction measures shows that the installation of exhaust gas processing equipment is better than the plan use of LSFO. In other words, the Scrubber is not the most cost-effective option. Yet, from NPV perspective, scrubber is better than Low sulphur bunker.

2. Qualitative research result

"Any act of adding machinery to a ship increases risk," represents the thinking of many shipping companies (Koilo, 2019). In addition, insurance companies are evaluating the higher risks that ships equipped with scrubbers may face. At present, a number of ships have had accidents due to the installation of scrubbers. Some analysts said that the accidents were due to serious corrosion of equipment. It was also suggested that improper installation of the scrubbers or improper operation of the crew could also lead to accidents. Many ships with scrubbers are trying to make their system work properly, and many have to assign more crew for operation. These all are the problems the ships need to face. Even the large shipping companies with professional technical teams, when facing with these problems, are under great pressure, not to mention some small and medium-sized shipping companies in China. As to them, these risks are devastating.

Small and medium-sized shipping enterprises in China are obviously inferior to large ones in utilizing economic resources, obtaining market information and seeking external support. At the same time, the entry barriers of technology, capital and others for small and medium-sized enterprises in the field of production and operation are larger, and the existence of a large number of small and medium-sized shipping enterprises makes them face increasingly fierce competition. Therefore, in a time of severe market turbulence and in a financial crisis, small and medium-sized shipping enterprises are often the hardest-hit ones. The disadvantage of low anti-risk ability makes small and medium-sized enterprises in China, especially small and medium-sized enterprises established in a short time, have higher failure rate. Compared with small-scale enterprises, the economies of scale of large-scale shipping enterprises to expand market coverage and spread operational risks. Investment in scrubber for large shipping company is also a way to diversify risk (Koilo, 2019).

The decisive factor is the difference between low-sulfur oil and ordinary bunker in China, which is getting smaller and smaller as the number of suppliers increases. The cost advantage of scrubber has gradually been lost. However, during the calculation of IRR and NPV form the cash-flow part, we can find that NPV using scrubber is relatively high. So currently using scrubber is not useless.

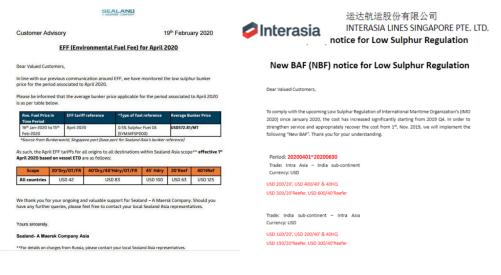
Although the current supply of low-sulfur oil has unstable factors, and the quality of low-sulfur oil is also not good, I believe that all of them will be resolved through the technological innovation. With the support of the Chinese government, the continued supply of high-quality low-sulfur oil in the future will solve the supply problem of China's low-sulfur oil market. In addition, emerging technologies, such as the LNG technology, are also an important factor for solving shipping enterprises' control of sulfur emissions.

Conclusion

In the whole paper, I analyzed the research question step by step. Firstly, I got the NPV and IRR for both measures to control SOx emission. And secondly, in the interview I got the information that large scale companies in China still use scrubber, although the IRR is bad, and I got the factors still use scrubber or not. Finally the Regression could prove the results of interview within a small group to a wide shipping industry situation. In all cash flow calculations, the use of Low sulphur bunker is of the worst NPV and good IRR, but the

increase in investment costs caused by it is less, and the reconstruction of ships is not much, so it is also the direct choice for most ship companies. Although the price of Low sulphur bunker has greatly affected the economical efficiency and cost effectiveness of the measure. Especially in this period, due to the increase in the suppliers of Low sulphur bunker, and decrease the price difference between high sulphur bunker and Low sulphur bunker.

Therefore, the use of Low sulphur bunker is the most direct choice to meet the sulphur emission control and also a minimal risk option for shipping companies, which will not put huge pressure on the cash flow of shipping companies in the short term and will not affect the companies by sudden technical accidents. However, the quality of low-sulfur bunker and its impact on the ship's engine also exist. With the more and more strict requirements on bunker sulfur content, the types of bunkers will continue to increase, which is also a challenge for shipping companies.



	WAN HAI LINI	ES LTD.		SITC	SITC CC	ONTAINER LI	NES CO., LTD
Notice of Col	lection of Low St	ılphur Sur	charge (WBS)	Southeas	t Asia Line	s LSS Adjustme	nt Notice
emission regulation since October 2019 sulphur fuel surcha April 1, 2020 accor China (Shanghai, N	s/Agents International Maittime Is, our operating fleets O. In order to reflect the uge (WBS) (valid for A ding to the rate standard ingbo, Fuzhou, Xiamen mal branches of the Yan	have carried e cost of fuel, april 1, 2020- ds below. The , Suzhou and	out fuel conversion we will charge low June 30, 2020) from specific rates in East Hangzhou, Yiwu and	low sulphur will come in In order to costs from 1 "LSS", acco	ise significantly regulations of I to effect in Janu stabilize and s November 2019 arding to the f	nternational Maritime ary 2020. trengthen the service), we will adjust the uel prices from June	er of 2019, in line with the Organization (IMO), which , and appropriately recover low sulphur fuel surcharge e to September, start from sction standards of us are as
TRADE(outbound)	20'	40'	40HQ		Shanghai-Sou	theast Asia LSS Char	ging Standard
Southeast Asia	USD90(General		USD180(General	Port of	destination	(Unit: USD/TEU) Dry container	Reefer container
(except the	container)	USD180	container)		ng Kong	45	67.5
Philippines)	USD135(Reefer	CODICC	USD270(Reefer		ines.North	45	67.5
,	container)		container)		ines, South	75	112.5
	USD48(General		USD96(General		ietnam	75	112.5
Hong Kong,	container)	USD96	container)		mpuchea	75	112.5
Philippines	USD72(Reefer		USD144(Reefer	1	npucnea	75	112.5
	container)		container)		igapore	90	135
India/Sri	USD195(General		USD390(General	i	alaysia	90	135
Lanka/Bangladesh/Pa	container)	USD390	container)		araysia Brunei	90	135
kistan	USD293(Reefer		USD586(Reefer		donesia	90	135
	container)		container)				ent (original prepaid LSS is
				cancelled sy	nchronously)		December 31, 2019 (ETD at

ort of departure) port of departure) If there is any update to the rate from 2020, we will inform you

The Philippines, North, contains Batangas, Subic, Manila North Port, Manila South Port, Cebu and ports transited through the above ports The Philippines, South, includes Cagayan, Davao, General Santos and ports transited through the above ports;

SITC Container Lines Co., Ltd 10/15/2019



	Indo-	Middle	European	Southeast	Sino-US	Australian	Africa	
	Pakistani	East	line	Asia	line	line		
	line							
LSS USD/TUE	印巴航线	中东	欧洲线	东南亚	中美航线	澳洲线	非洲	
OOCL	163	132	102	84				
YML	111	134	178	92	156	16		
IAL	200	-		100				
WHL	195			90	20			
ZIM	20			110				
HMM	101	101	124					
SAF	59						12	
EVERGREEN			197					
KMTC		210		90)	2		
APL		75						
CMA			90		5		129	
ONE					15			
cosco			50	80	140			

Influenced lines distribution

The installation of scrubber is of more profitability due to the better NPV than the use of Low sulphur bunker but the IRR is the worst. It is an appropriate choice to install the tail gas treatment equipment in ocean routes. Although the increase in the cost caused by this measure is small, but the up-front investment is a relatively large investment only affordable for state-owned shipping enterprises with the large cash flow.

And for large companies in China, continuing to use desulfurization towers is an important way for companies to share risk. Scrubber is still a good solution when sulfur control policies continue to change. But technical risks and low oil prices still have a huge impact on scrubber. More and more small and medium shipping companies in China are giving up using scrubber. At this moment, scrubber not a good choice.

No matter which way is chosen to control sulphur emissions, the changes in shipping costs construction are inevitable. Through the notices on the increase of low sulphur bunker surcharge from several shipping companies in China, it can be seen that all shipping companies from large shipping companies, such as OOCL, to small and medium-sized shipping companies, such as SITC and WAN HAI, have started to raise freight rates, and specifically marked the increase as the Low sulphur bunker surcharge, including INTERASIA LINES SINGAPORE PTE. LTD. From the table 16 showing that also has started to charge the low sulphur bunker surcharge covering hundreds of lines in most parts of the world from African lines to Australian lines as well as European India–Pakistan line. This fact shows that most companies in China are using low-sulfur bunker.

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