

MARINE ENVIRONMENT PROTECTION
COMMITTEE
77th session
Agenda item 14

MEPC 77/INF.5
8 September 2021
ENGLISH ONLY
Pre-session public release:

ANY OTHER BUSINESS

Calculation of recycling capacity for meeting the entry-into-force conditions of the Hong Kong Convention

Note by the Secretariat

SUMMARY

Executive summary: This document provides information regarding the status of entry into force of the Hong Kong Convention

Strategic direction, if applicable: Not applicable

Output: Not applicable

Action to be taken: Paragraph 8

Related documents: SR/CONF/41; resolution MEPC.178(59) and MEPC 74/INF.16

Background

1 Article 17 of the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (Hong Kong Convention) provides that the Convention shall enter into force 24 months after the date on which the following conditions are met:

- .1 not less than 15 States have either signed it without reservation as to ratification, acceptance or approval, or have deposited the requisite instrument of ratification, acceptance, approval or accession in accordance with article 16;
- .2 the combined merchant fleets of the States mentioned in paragraph 1.1 constitute not less than 40% of the gross tonnage of the world's merchant shipping; and
- .3 the combined maximum annual ship recycling volume of the States mentioned in paragraph 1.1 during the preceding 10 years constitutes not less than 3% of the gross tonnage of the combined merchant shipping of the same States.

2 Resolution MEPC.178(59) invites the Secretary-General, when calculating the combined maximum annual ship recycling volume (recycling capacity) of Contracting States, as required by article 17 of the Convention, to refer to annually published statistical data on the recycled gross tonnage of shipping, on the following basis:

- .1 for each Contracting State, extract the "annual ship recycling volume" for each of the preceding 10 years, by reference to the data on total gross tonnage provided in the table on disposals by country of breaking in that year's World Casualty Statistics from Lloyd's Register – Fairplay (now known as IHS Maritime & Trade); and
- .2 determine "the maximum annual ship recycling volume" by selecting the highest value occurring in the 10-year period for each Contracting State.

Ship recycling capacity

3 To assist the Committee and other stakeholders to reach a better understanding of the conditions for the Convention's entry into force, the Secretariat, in accordance with resolution MEPC.178(59), has collected the published ship recycling volume data for the preceding 10 years, as shown in the tables in the annex to this document.

4 Table 1 shows, for each country that is recorded by IHS Maritime & Trade as having recycled any ships in the last decade, the total gross tonnage recycled in each of the preceding 10 years (2011 to 2020). The last column of the table shows the maximum annual ship recycling volume of each State, this being the largest entry of recycled gross tonnage in the decade. The maximum annual ship recycling volume of each State may be regarded as the present recycling capacity of that State.

5 Table 2 presents data on the total gross tonnage of the world fleet for each of the preceding 10 years. The second row shows 40% of the world fleet's gross tonnage figure and the third row shows 3% of the 40% of the world fleet's tonnage figure (this being the minimum tonnage of combined maximum annual ship recycling volume of Contracting States that is necessary to satisfy the recycling capacity criterion for entry into force of the Convention – see paragraph 1.3 above).

6 Table 3 presents an extract from table 1 showing, for the top five ship recycling States (listed in this paragraph in the order of capacity: India, Bangladesh, China, Pakistan and Turkey), their total gross tonnage recycled annually and their maximum annual ship recycling volume. Table 3 also shows that, for each year in the decade, the top five recycling States have recycled an average of 98% of all tonnage recycled in the world.

Status of the Convention

7 As of the date of this document, 17 States, Belgium, Republic of the Congo, Croatia, Denmark, Estonia, France, Germany, Ghana, India, Japan, Malta, the Netherlands, Norway, Panama, Spain, Serbia and Turkey, have ratified or acceded to the Convention, whose combined merchant fleets (a gross tonnage of 426,940,146) constitute 29.77% of the world's merchant shipping, and whose combined maximum annual ship recycling volumes constitute a gross tonnage of 13,950,584.

Action requested of the Committee

8 The Committee is invited to note the information contained in this document.

ANNEX

CONDITION FOR ENTRY INTO FORCE OF THE HONG KONG CONVENTION

Table 1: Annual ship recycling volume (2011-2020) (Data by IHS Maritime & Trade)

RECYCLING STATE	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Max.ann'l recl.vol. Max 2011-2020
Albania	-	-	1,511	-	-	-	-	-	-	-	1,511
Argentina	3,852	12,762	-	-	-	-	-	4,480	339	246	12,762
Australia	-	-	-	-	-	-	-	1,107	-	266	1,107
Azerbaijan	-	-	-	-	84,687	3,112	1,295	1,000	1,218	-	84,687
Bangladesh	5,837,137	8,837,828	7,304,784	5,519,035	7,517,000	9,888,137	6,361,485	7,926,846	7,301,757	6,223,376	9,888,137
Belgium	16,005	36,441	10,351	14,435	19,671	12,358	18,358	16,887	7,560	15,871	36,441
Brazil	8,749	6,980	-	-	-	16,177	-	1,398	-	1,330	16,177
Bulgaria	-	-	1,640	-	-	-	-	-	-	-	1,640
Cameroon	-	-	-	-	-	-	-	1,988	-	-	1,988
Canada	21,205	18,624	18,810	21,436	13,816	33,305	22,024	44,451	767	3,179	44,451
Cape Verde	-	-	-	-	-	-	-	-	236	-	236
Chile	1,908	-	295	-	-	-	-	-	-	-	1,908
China	5,968,520	8,167,710	7,083,536	4,975,527	4,036,142	3,464,380	3,573,932	344,855	337,870	215,651	8,167,710
Hong Kong, China	-	-	-	-	-	-	-	-	-	570	570
Colombia	7,519	-	-	-	-	-	-	4,071	-	-	7,519
Croatia	738	2,814	855	463	219	-	130	-	-	224	2,814
Cuba	-	3,711	-	-	-	23,021	23,545	14,497	1,746	-	23,545
Cyprus	-	-	121	122	-	-	-	-	-	1,155	1,155
Denmark	28,672	46,416	56,369	30,510	38,131	14,457	29,870	25,875	10,010	22,281	56,369
Faeroe Islands	-	-	-	-	-	-	-	-	171	-	171
Dominican Republic	-	9,205	-	6,659	10,770	-	-	-	-	-	10,770
Ecuador	17,218	27,733	3,986	-	-	-	7,173	37,266	1,782	-	37,266
Egypt	-	-	-	9,085	-	-	-	-	1,021	689	9,085
Estonia	3,593	852	2,422	-	-	-	-	2,056	-	-	3,593
Finland	-	-	-	-	-	-	710	-	-	-	710
Fiji	-	-	-	304	-	-	-	-	-	-	304
France	331	5,102	3,115	-	-	-	-	5,486	-	-	5,486
Martinique	-	-	-	4,057	-	-	-	-	-	-	4,057
Germany	-	-	274	-	236	1,534	-	-	-	-	1,534
Ghana	8,714	-	807	-	-	1,658	-	-	-	-	8,714
Greece	-	1,102	-	1,448	-	-	-	218	1,595	-	1,595
Iceland	-	-	-	2,211	-	-	-	-	1,898	-	2,211
India	8,504,517	12,210,082	8,087,096	6,794,891	4,558,446	8,474,617	5,755,526	4,712,267	3,107,586	4,308,142	12,210,082
Indonesia	-	9,110	14,918	26,863	7,283	6,708	22,436	48,831	13,676	21,220	48,831
Iran (Islamic Republic of)	-	126	-	-	-	-	-	-	-	-	126
Ireland	173	-	-	-	-	-	-	-	-	-	173
Italy	-	-	-	106	-	-	-	3,988	-	-	3,988
Japan	-	-	13,343	7,982	-	-	7,540	5,176	1,276	-	13,343
Kenya	-	-	-	895	-	-	-	-	-	-	895
Democratic People's Republic of Korea	1,888	-	-	-	-	-	-	-	3,780	-	3,780

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RECYCLING STATE	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Max.ann'l recl.vol. Max 2011-2020
Republic of Korea	-	-	11,246	10,502	5,967	9,871	4,233	3,254	8,361	32,067	32,067
Latvia	1,857	2,065	3,911	398	-	1,313	10,666	-	1,167	718	10,666
Lithuania	2,303	1,895	14,002	7,617	3,468	466	-	1,729	2,325	1,414	14,002
Madagascar	-	-	571	-	-	-	-	-	-	-	571
Malta	947	-	141	-	-	-	-	-	-	-	947
Mexico	9,304	18,659	95,052	26,309	26,308	660	-	-	3,604	-	95,052
Montenegro	-	-	-	-	-	-	-	948	-	-	948
Morocco	-	-	3,025	-	-	-	-	-	-	-	3,025
Namibia	-	-	-	-	2,692	-	-	-	1,970	1,361	2,692
Netherlands	6,647	188	2,001	2,773	11,288	8,482	10,711	6,576	2,509	8,814	11,288
Curacao	-	-	-	1,408	1,599	-	-	14,505	-	-	14,505
New Zealand	1,044	222	-	-	149	-	-	520	-	630	1,044
Nigeria	-	-	2,579	-	836	-	2,040	44,146	992	563	44,146
Norway	3,610	2,894	3,790	2,292	1,109	4,821	1,997	3,562	2,842	10,489	10,489
Pakistan	3,013,926	5,499,481	5,376,443	4,092,971	4,588,831	5,703,133	4,302,798	4,187,469	234,633	2,256,964	5,703,133
Panama	789	1,440	-	3,305	-	-	-	-	8,559	-	8,559
Papua New Guinea	-	-	-	-	1,849	-	-	-	-	-	1,849
Philippines	-	1,216	4,036	3,828	14,875	-	3,307	3,937	-	-	14,875
Poland	-	2,857	-	-	454	-	-	334	-	-	2,857
Portugal	-	-	3,095	1,862	-	-	-	-	-	-	3,095
Romania	-	-	9,160	2,356	-	-	-	-	-	-	9,160
Russian Federation	3,924	3,075	2,175	1,383	1,638	39,646	3,120	9,398	9,074	6,133	39,646
Slovenia	-	312	-	-	-	-	-	-	-	-	312
South Africa	292	-	-	647	1,895	1,256	-	576	-	1,853	1,895
Spain	8,285	16,656	7,468	7,517	11,422	6,105	4,472	7,641	4,373	916	16,656
Canary Islands	-	-	-	-	-	-	-	-	4,736	-	4,736
Sweden	-	-	19,638	-	4,166	-	-	-	-	-	19,638
Thailand	-	-	-	-	865	-	-	-	3,037	-	3,037
Trinidad and Tobago	1,747	-	-	5,423	-	-	-	-	-	-	5,423
Turkey	1,067,425	1,540,800	1,369,955	977,695	751,759	721,083	971,278	771,743	887,590	1,289,774	1,540,800
Ukraine	825	4,517	1,836	-	-	-	2,516	-	313	-	4,517
United Kingdom	2,269	1,249	582	6,302	1,848	3,589	1,937	7,715	5,666	6,733	7,715
Gibraltar	2,099	-	-	-	195	-	-	-	-	-	2,099
United Republic of Tanzania	-	3,119	-	-	-	-	-	-	-	-	3,119
United States of America	204,348	114,908	168,716	114,666	7,431	88,647	58,041	67,399	115,070	80,189	204,348
Uruguay	-	-	-	1,378	-	-	-	-	-	-	1,378
Viet Nam	-	15,616	67,437	23,382	10,280	11,188	1,160	1,003	5,450	1,358	67,437
Venezuela (Bolivarian Republic of)	-	-	-	1,155	-	-	-	-	-	-	1,155
UNKNOWN	253,993	191,631	62,676	53,432	59,272	60,376	222,760	39,157	26,277	109,512	253,993
TOTALS	25,016,373	36,819,398	29,833,768	22,764,630	21,796,597	28,600,100	21,425,060	18,374,355	12,122,836	14,623,688	38,880,315

* A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Malvinas).

Table 2: World fleet in GT terms (Data by IHS Maritime & Trade)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
WORLD FLEET	1,043,081,509	1,081,204,742	1,122,649,460	1,166,847,462	1,211,877,004	1,248,583,186	1,291,046,701	1,334,630,042	1,390,332,982	1,433,895,532
40% of WORLD FLEET	417,232,604	432,481,897	449,059,784	466,738,985	484,750,802	499,433,274	516,418,680	533,852,017	556,133,193	573,558,213
3% of 40%	12,516,978	12,974,457	13,471,794	14,002,170	14,542,524	14,982,998	15,492,560	16,015,561	16,683,996	17,206,746

Table 3: Annual ship recycling volume of the largest ship recycling countries (Data by IHS Maritime & Trade)

RECYCLING STATE	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Max.ann'l recl.vol. Max 2011-2020
INDIA	8,504,517	12,210,082	8,087,096	6,794,891	4,558,446	8,474,617	5,755,526	4,712,267	3,107,586	4,308,142	12,210,082
BANGLADESH	5,837,137	8,837,828	7,304,784	5,519,035	7,517,000	9,888,137	6,361,485	7,926,846	7,301,757	6,223,376	9,888,137
CHINA	5,968,520	8,167,710	7,083,536	4,975,527	4,036,142	3,464,380	3,573,932	344,855	337,870	216,221	8,167,710
PAKISTAN	3,013,926	5,499,481	5,376,443	4,092,971	4,588,831	5,703,133	4,302,798	4,187,469	234,633	2,256,964	5,703,133
TURKEY	1,067,425	1,540,800	1,369,955	977,695	751,759	751,759	971,278	771,743	887,590	1,289,774	1,540,800
Sum of top five recycling States	24,391,525	36,255,901	29,221,814	22,360,119	21,452,178	28,282,026	20,965,019	17,943,180	11,869,436	14,294,477	37,509,862
Rest of the world	624,848	563,497	611,954	404,511	344,419	318,074	460,041	431,175	253,400	329,211	1,370,453
WORLD TOTAL	25,016,373	36,819,398	29,833,768	22,764,630	21,796,597	28,600,100	21,425,060	18,374,355	12,122,836	14,623,688	38,880,315
% of top five to world totals	98%	98%	98%	98%	98%	99%	98%	98%	98%	98%	98%
											10 year average: