

# 探讨船舶大气污染防治对策

—第 84 期处级领导干部进修班 张俊中

14.0% 16.5%

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船舶类型	SO <sub>x</sub>	NO <sub>x</sub>	CO	VOCs	PM10	PM2.5	BC	OC
远洋及沿海船舶	12915	11316	1147	519	1537	1149	655	48
内河船舶	391	26927	4221	731	494	479	273	16
渡轮、客轮和水巴	2	165	82	21	13	13	7	0.4
合 计	13309	38407	5450	1271	2043	1641	935	64

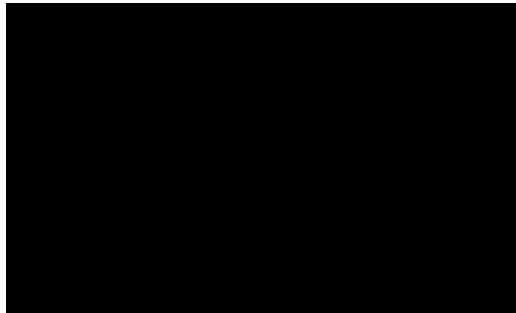
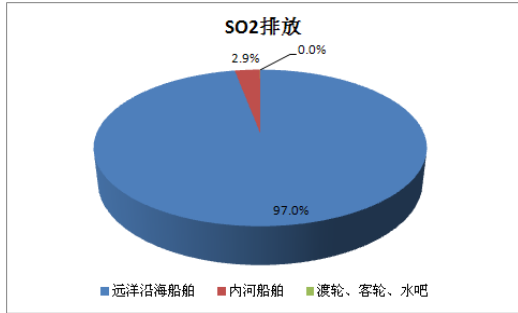
SO<sub>x</sub> NO<sub>x</sub> 1.3 3.8

SOx

97.0%

NOx

70.1%



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49%—79%

18%—40%

3%—17%

1.71%<sub>m/m</sub>

0.044%<sub>m/m</sub>

GBT 17411-2012

GB252-2015

" "

1%

2

3

4

"

"

"

"

HC PM CO

SOX NOX

MARPOL

VI

