



**CCS Rule Change Notice For:**  
**RULES FOR GREEN ECO-SHIPS**

**Version: 2022. RCN No.1**  
**Effective date: April 1, 2022**

**Beijing**

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**PART I**

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## Part I REQUIREMENTS FOR SEA-GOING SHIPS ENGAGED ON INTERNATIONAL VOYAGES

### CHAPTER 2 REQUIREMENTS FOR ECOLOGICAL PROTECTION

#### 2.3 GHG emission control

##### 2.3.2 Requirements for CO<sub>2</sub> emission design index for ships

2.3.2.4 The reduction factor of the Required EEDI for an individual ship is to comply with the corresponding requirements in Chapter 4 of MARPOL ANNEX VI, as shown in Table 2.3.2.4.

**Table 2.3.2.4 Reduction Factors for Calculation of Required EEDI**

| Ship type                                                       | Size              | Reduction factor X    |                       |                        |                        |
|-----------------------------------------------------------------|-------------------|-----------------------|-----------------------|------------------------|------------------------|
|                                                                 |                   | Phase 1               | Phase 2               | Phase 3                |                        |
|                                                                 |                   | 2015.01.01-2019.12.31 | 2020.01.01-2024.12.31 | 2022.01.01-and onwards | 2025.01.01-and onwards |
| Bulk carrier                                                    | ≥20000DWT         | 10                    | 20                    |                        | 30                     |
|                                                                 | 20000>DWT≥10000   | 0-10*                 | 0-20*                 |                        | 0-30*                  |
| Gas carrier                                                     | ≥15000DWT         | 10                    | 20                    | 30                     |                        |
|                                                                 | 15000>DWT≥10000   | 10                    | 20                    |                        | 30                     |
|                                                                 | 10000>DWT≥2000    | 0-10*                 | 0-20*                 |                        | 0-30*                  |
| Tanker                                                          | ≥20000DWT         | 10                    | 20                    |                        | 30                     |
|                                                                 | 20000>DWT≥4000    | 0-10*                 | 0-20*                 |                        | 0-30*                  |
| Container ship                                                  | ≥200000DWT        | 10                    | 20                    | 50                     |                        |
|                                                                 | 200000>DWT≥120000 | 10                    | 20                    | 45                     |                        |
|                                                                 | 120000>DWT≥80000  | 10                    | 20                    | 40                     |                        |
|                                                                 | 80000>DWT≥40000   | 10                    | 20                    | 35                     |                        |
|                                                                 | 40000>DWT≥15000   | 10                    | 20                    | 30                     |                        |
|                                                                 | 15000>DWT≥10000   | 0-10*                 | 0-20*                 | 15-30*                 |                        |
| General cargo ship                                              | ≥15000DWT         | 10                    | 15                    | 30                     |                        |
|                                                                 | 15000>DWT≥3000    | 0-10*                 | 0-15*                 | 0-30*                  |                        |
| Refrigerated cargo carrier                                      | ≥5000DWT          | 10                    | 15                    |                        | 30                     |
|                                                                 | 5000>DWT≥3000     | 0-10*                 | 0-15*                 |                        | 0-30*                  |
| Combination carrier                                             | ≥20000DWT         | 10                    | 20                    |                        | 30                     |
|                                                                 | 20000>DWT≥4000    | 0-10*                 | 0-20*                 |                        | 0-30*                  |
| Ro-ro passenger ship                                            | ≥1000DWT          | 5                     | 20                    |                        | 30                     |
|                                                                 | 1000>DWT≥250      | 0-5*                  | 0-20*                 |                        | 0-30*                  |
| Ro-ro cargo ship (Vehicle carrier)                              | ≥10000DWT         | 5                     | 15                    |                        | 30                     |
| Ro-ro cargo ship                                                | ≥2000DWT          | 5                     | 20                    |                        | 30                     |
|                                                                 | 2000>DWT≥1000     | 0-5*                  | 0-20*                 |                        | 0-30*                  |
| LNG carrier                                                     | ≥10000DWT         | 10                    | 20                    | 30                     |                        |
| Cruise passenger ship having non-conventional propulsion system | ≥85000GT          | 5                     | 20                    | 30                     |                        |
|                                                                 | 85000>GT≥25000    | 0-5*                  | 0-20*                 | 0-30*                  |                        |

| Ship type | Size | Reduction factor X |         |         |
|-----------|------|--------------------|---------|---------|
|           |      | Phase 1            | Phase 2 | Phase 3 |

|                                                                                             |                                      | <a href="#">2015.1.1-<br/>2019.12.31</a> | <a href="#">2020.1.1-<br/>2022.3.31</a> | <a href="#">2020.1.1-<br/>2024.12.31</a> | <a href="#">2022.4.1 and<br/>onwards</a> | <a href="#">2025.1.1 and<br/>onwards</a> |
|---------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| <a href="#">Bulk carrier</a>                                                                | <a href="#">≥20,000 DWT</a>          | <a href="#">10</a>                       |                                         | <a href="#">20</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">20000&gt;DWT≥10000</a>   | <a href="#">0-10*</a>                    |                                         | <a href="#">0-20*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">Gas carrier</a>                                                                 | <a href="#">≥15,000 DWT</a>          | <a href="#">10</a>                       | <a href="#">20</a>                      |                                          | <a href="#">30</a>                       |                                          |
|                                                                                             | <a href="#">15000&gt;DWT≥10000</a>   | <a href="#">10</a>                       |                                         | <a href="#">20</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">10000&gt;DWT≥2000</a>    | <a href="#">0-10*</a>                    |                                         | <a href="#">0-20*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">Tanker</a>                                                                      | <a href="#">≥20000DWT</a>            | <a href="#">10</a>                       |                                         | <a href="#">20</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">20000&gt;DWT≥4000</a>    | <a href="#">0-10*</a>                    |                                         | <a href="#">0-20*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">Container ship</a>                                                              | <a href="#">≥200000DWT</a>           | <a href="#">10</a>                       | <a href="#">20</a>                      |                                          | <a href="#">50</a>                       |                                          |
|                                                                                             | <a href="#">200000&gt;DWT≥120000</a> | <a href="#">10</a>                       | <a href="#">20</a>                      |                                          | <a href="#">45</a>                       |                                          |
|                                                                                             | <a href="#">120000&gt;DWT≥80000</a>  | <a href="#">10</a>                       | <a href="#">20</a>                      |                                          | <a href="#">40</a>                       |                                          |
|                                                                                             | <a href="#">80000&gt;DWT≥40000</a>   | <a href="#">10</a>                       | <a href="#">20</a>                      |                                          | <a href="#">35</a>                       |                                          |
|                                                                                             | <a href="#">40000&gt;DWT≥15000</a>   | <a href="#">10</a>                       | <a href="#">20</a>                      |                                          | <a href="#">30</a>                       |                                          |
|                                                                                             | <a href="#">15000&gt;DWT≥10000</a>   | <a href="#">0-10*</a>                    | <a href="#">0-20*</a>                   |                                          | <a href="#">15-30*</a>                   |                                          |
| <a href="#">General cargo ship</a>                                                          | <a href="#">≥15000DWT</a>            | <a href="#">10</a>                       | <a href="#">15</a>                      |                                          | <a href="#">30</a>                       |                                          |
|                                                                                             | <a href="#">15000&gt;DWT≥3000</a>    | <a href="#">0-10*</a>                    | <a href="#">0-15*</a>                   |                                          | <a href="#">0-30*</a>                    |                                          |
| <a href="#">Refrigerated cargo<br/>carrier</a>                                              | <a href="#">≥5000DWT</a>             | <a href="#">10</a>                       |                                         | <a href="#">15</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">5000&gt;DWT≥3000</a>     | <a href="#">0-10*</a>                    |                                         | <a href="#">0-15*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">Combination<br/>carrier</a>                                                     | <a href="#">≥20000DWT</a>            | <a href="#">10</a>                       |                                         | <a href="#">20</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">20000&gt;DWT≥4000</a>    | <a href="#">0-10*</a>                    |                                         | <a href="#">0-20*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">LNG carrier</a>                                                                 | <a href="#">≥10000DWT</a>            | <a href="#">10*</a>                      | <a href="#">20</a>                      |                                          | <a href="#">30</a>                       |                                          |
| <a href="#">Ro-ro cargo ship<br/>(Vehicle carrier)</a>                                      | <a href="#">≥10000DWT</a>            | <a href="#">5*</a>                       |                                         | <a href="#">15</a>                       |                                          | <a href="#">30</a>                       |
| <a href="#">Ro-ro passenger<br/>ship</a>                                                    | <a href="#">≥2000DWT</a>             | <a href="#">5*</a>                       |                                         | <a href="#">20</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">2000&gt;DWT≥1000</a>     | <a href="#">0-5*</a>                     |                                         | <a href="#">0-20*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">Ro-ro passenger<br/>ship</a>                                                    | <a href="#">≥1000DWT</a>             | <a href="#">5*</a>                       |                                         | <a href="#">20</a>                       |                                          | <a href="#">30</a>                       |
|                                                                                             | <a href="#">1000&gt;DWT≥250</a>      | <a href="#">0-5*</a>                     |                                         | <a href="#">0-20*</a>                    |                                          | <a href="#">0-30*</a>                    |
| <a href="#">Cruise passenger<br/>ship having<br/>non-conventional<br/>propulsion system</a> | <a href="#">≥85000GT</a>             | <a href="#">5*</a>                       | <a href="#">20</a>                      |                                          | <a href="#">30</a>                       |                                          |
|                                                                                             | <a href="#">85000&gt;GT≥25000</a>    | <a href="#">0-5*</a>                     | <a href="#">0-20*</a>                   |                                          | <a href="#">0-30*</a>                    |                                          |

\* Reduction factor to be linearly interpolated between the two values dependent upon ship size.