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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C.**

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**FORM 6-K**

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**REPORT OF FOREIGN PRIVATE ISSUER  
Pursuant to Rule 13a-16 or 15d-16 under  
the Securities Exchange Act of 1934**

**For the month of December 2024**

**COMMISSION FILE NUMBER: 001-33373**

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**CAPITAL CLEAN ENERGY CARRIERS CORP.**

(Translation of registrant's name into English)

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**3 Iassonos Street  
Piraeus, 18537 Greece  
(Address of principal executive offices)**

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Indicate by check mark whether the Registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F

Form 40-F

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Attached as Exhibit I hereto is a copy of the press release of Capital Clean Energy Carriers Corp. announcing the results of its annual meeting of shareholders held in Piraeus, Greece on December 5, 2024.

Exhibit I to this report on Form 6-K is hereby incorporated by reference into the registrant's Registration Statement on Form F-3 (File No. 333-282610).

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

**CAPITAL CLEAN ENERGY CARRIERS CORP.**

Dated: December 17, 2024

/s/ Gerasimos (Jerry) Kalogiratos

Name: Gerasimos (Jerry) Kalogiratos

Title: Chief Executive Officer

**Capital Clean Energy Carriers Corp. Announces Results of Its Annual Meeting of Shareholders**

ATHENS, GREECE, December 11<sup>th</sup>, 2024 – Capital Clean Energy Carriers Corp. (NASDAQ:CCEC) (the “Company”) today announced that it held its Annual Meeting of Shareholders in Piraeus, Greece on December 5<sup>th</sup>, 2024. At that meeting:

1. The current eight directors of the Company were re-elected to serve until the 2025 Annual Meeting of Shareholders, and until their successors are elected and qualified; and
2. The appointment of Deloitte Certified Public Accountants S.A., as independent registered public accounting firm for the fiscal year ending December 31, 2024, was ratified.

**About Capital Clean Energy Carriers Corp.**

Capital Clean Energy Carriers Corp. (NASDAQ: CCEC), an international shipping company, is one of the world’s leading platforms of gas carriage solutions with a focus on energy transition. CCEC’s in-the-water fleet includes 18 high specification vessels, including 12 latest generation LNG/Cs and six legacy Neo-Panamax container vessels. CCEC has agreed to sell three Neo-Panamax container vessels by the first quarter of 2025. In addition, CCEC’s under-construction fleet includes six additional latest generation LNG/Cs, six dual-fuel medium gas carriers and four handy liquid CO<sub>2</sub>/multi-gas carriers, to be delivered between the first quarter of 2026 and the third quarter of 2027.

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