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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

**FORM 6-K**

**REPORT OF FOREIGN PRIVATE ISSUER  
PURSUANT TO RULE 13a-16 OR 15d-16  
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

**For the month of January 2025**

**Commission File Number: 001-42445**

**Leishen Energy Holding Co., Ltd.**  
(Registrant's Name)

**103 Huizhong Li, B Building, Peking Times Square, Unit 15B10  
Chaoyang District, Beijing, China  
(Address of Principal Executive Offices)**

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F:

Form 20-F  Form 40-F

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As previously disclosed, on December 20, 2024, Leishen Energy Holding Co., Ltd. (the “Company”) (Nasdaq: LSE) consummated its initial public offering (the “IPO”) of 1,375,000 ordinary shares, par value \$0.001 per share (each, an “Ordinary Share” and the Ordinary Shares sold in the IPO are hereafter referred as the “IPO Shares”). The Company has also granted the underwriters a 45-day option to purchase up to an additional 206,250 Ordinary Shares to cover over-allotments (the “Over-Allotment Shares”), if any (the “Over-Allotment Option”).

On January 8, 2025, the Company issued and sold 150,000 additional Ordinary Shares at a price of \$4.00 per share, pursuant to the partial exercise of the Over-Allotment Option, resulting in additional gross proceeds of \$600,000. As a result, the Company has raised aggregate gross proceeds of \$6,100,000 in the IPO, including the exercise of the Over-Allotment Option, prior to deducting underwriting discounts and commissions and offering expenses payable by the Company.

The Company issued a press release announcing the issuance and sale of the Over-Allotment Shares on January 8, 2025. A copy of the press release is furnished herewith as Exhibit 99.1 and is incorporated by reference herein.

This report does not constitute an offer to sell, or the solicitation of an offer to buy, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such state or jurisdiction.

#### Exhibit Index

<b>Exhibit No.</b>	<b>Description</b>
99.1	<a href="#">Press Release, dated January 8, 2025</a>

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**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.

**Leishen Energy Holding Co., Ltd.**

Date: January 8, 2025

By: /s/ Hongqi Li

Name: Hongqi Li

Title: Director

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## Leishen Energy Holding Co., Ltd. Announces Partial Exercise of the Underwriters' Over-Allotment Option in Connection with its Initial Public Offering

Beijing, China, January 8, 2025 — Leishen Energy Holding Co., Ltd. (the “Company”), (Nasdaq: LSE), a China-based provider of clean-energy equipment and integrated solutions for the oil and gas industry, today announced that it closed the sale of an additional 150,000 ordinary shares of the Company, pursuant to the partial exercise of the underwriters’ over-allotment option granted in connection with the Company’s initial public offering, at the IPO price of \$4.00 per share, less underwriting discounts. As a result, the Company has raised aggregate gross proceeds of \$6,100,000, including the previously announced IPO gross proceeds of \$5,500,000, prior to deducting underwriting discounts and commissions and offering expenses payable by the Company.

The shares described above were offered by the Company pursuant to a registration statement on Form F-1, as amended (File Number: 333-282433), that was declared effective by the U.S. Securities and Exchange Commission (the “SEC”) on December 18, 2024. The offering was made only by means of a prospectus, forming a part of the effective registration statement. A copy of the final prospectus relating to the offering may be obtained from Dominari Securities LLC, 725 Fifth Avenue, 23rd Floor New York, NY 10022, Attention: Eric Newman, or by calling (212) 393-4500 or emailing [info@dominarisecurities.com](mailto:info@dominarisecurities.com) or from the SEC’s website at [www.sec.gov](http://www.sec.gov).

Before you invest, you should read the prospectus and other documents the Company has filed or will file with the SEC for more information about the Company and the offering. This press release shall not constitute an offer to sell or the solicitation of an offer to buy the securities described herein, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

### About Leishen Energy Holding Co., Ltd.

The Leishen Group was founded in 2007 and is a China-based provider of clean-energy equipment and integrated solutions for the oil and gas industry, with a commitment to providing customers with high-performance, safe and cost-effective energy solutions. Our major lines of business include (i) sale of clean-energy industry; (ii) new energy production and operation; (iii) digitalization and integration equipment; and (iv) oil and gas engineering technical services. At present, the Group holds more than 70 patents and software copyrights, forming a comprehensive ecosystem of core technical capabilities. Currently, our business operations have expanded beyond the PRC to Central Asia, and Southeast Asia, and our service abilities and quality have been widely recognized and praised by foreign customers. Efficient, safe and energy-saving equipment combined with professional technical services have enabled our brand to gain positive attention and recognition from our customers and enabled us to become a well-known equipment and services provider in the oil and gas industry. For more information, please visit the Company’s website: [www.r-egroup.com](http://www.r-egroup.com).

### Forward-Looking Statements

Certain statements in this announcement are forward-looking statements, including, but not limited to, the Company’s share offering. These forward-looking statements involve known and unknown risks and uncertainties and are based on the Company’s current expectations and projections about future events that may affect its financial condition, results of operations, business strategy and financial needs, including the expectation that the offering will be successfully completed. Investors can find many (but not all) of these statements by the use of words such as “aim”, “anticipate”, “believe”, “estimate”, “expect”, “going forward”, “intend”, “may”, “plan”, “potential”, “predict”, “propose”, “seek”, “should”, “will”, “would” or other similar expressions in this press release. The Company undertakes no obligation to update or revise publicly any forward-looking statements to reflect subsequent occurring events or circumstances, or changes in its expectations, except as may be required by law. Although the Company believes that the expectations expressed in these forward-looking statements are reasonable, it cannot assure you that such expectations will turn out to be correct, and the Company cautions investors that actual results may differ materially from the anticipated results and encourages investors to review other factors that may affect its future results in the Company’s registration statement and other filings with the SEC.

For more information, please contact:

### Investor Relations Department

Email: [ir@r-egroup.com](mailto:ir@r-egroup.com)

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