



UPDATED PDP8

DECISION NO. 768/QD-TTG (2025)

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I. OVERVIEW

There are several updates introduced under Decision No. 768/QĐ-TTg dated April 15, 2025, which adjusts the National Power Development Plan for the period 2021-2023, with a vision to 2050 (hereinafter referred to as “**Updated PDP8**”). This adjustment builds upon and updates Decision No. 500/QĐ-TTg dated May 15, 2023.

The Updated PDP8 outlines the scope of the plan to include the development of power sources and high-voltage transmission grids (220 kV and above), along with renewable and new energy industries and services within Vietnam, for the 2021–2030 period and toward 2050. [1] It also encompasses cross-border grid interconnection projects with neighboring nations.

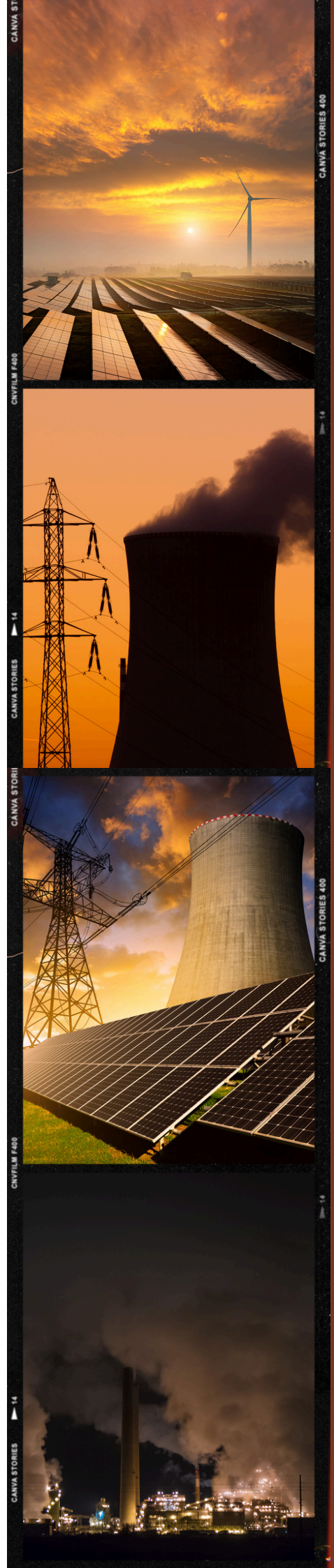
[1] Báo Chính phủ. (2025, April 16). Thủ tướng Chính phủ phê duyệt Điều chỉnh Quy hoạch điện VIII. Baochinhphu.Vn. <https://baochinhphu.vn/thu-tuong-chinh-phu-phe-duyet-dieu-chinh-quy-hoach-dien-viii-102250416180716025.htm>.

II. SCOPE OF REVISION

The revisions are based on:

(i) New legislative and policy developments, including the Electricity Law 2024 and guiding decrees and regulations in 2024 and 2025;

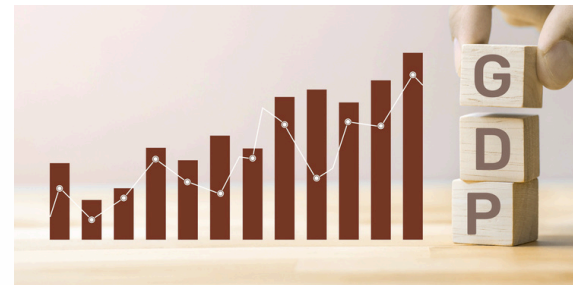
(ii) Changes in domestic energy demand projections, power capacity and structure targets, and geopolitical energy export/import strategy.



III. NOTABLE UPDATES

3.1. ENERGY DEMAND AND CAPACITY TARGETS

- Revised GDP growth assumption: from 7% to 10% annually (2026–2030);



- Increased 2030 targets:

- Commercial electricity output: from 505.2 to 500.4–557.8 billion kWh.
- Electricity production and import: 567.0 billion kWh to 560.4–624.6 billion kWh.
- Peak capacity: revised from 90,512 MW to 89,655–99,934 MW.

- Increased 2050 targets:

- Commercial electricity output: from 1,114.1–1,254.6 to 1,237.7–1,375.1 billion kWh.
- Electricity production and import volume: 1,224.3–1,378.7 to 1,360.1–1,511.1 billion kWh.
- Peak capacity: revised from 185,187–208,555 MW to 205,732–228,570 MW.

- Nuclear power is to be an electricity supply source.

III. NOTABLE UPDATES

3.2. JUST ENERGY TRANSITION GOALS

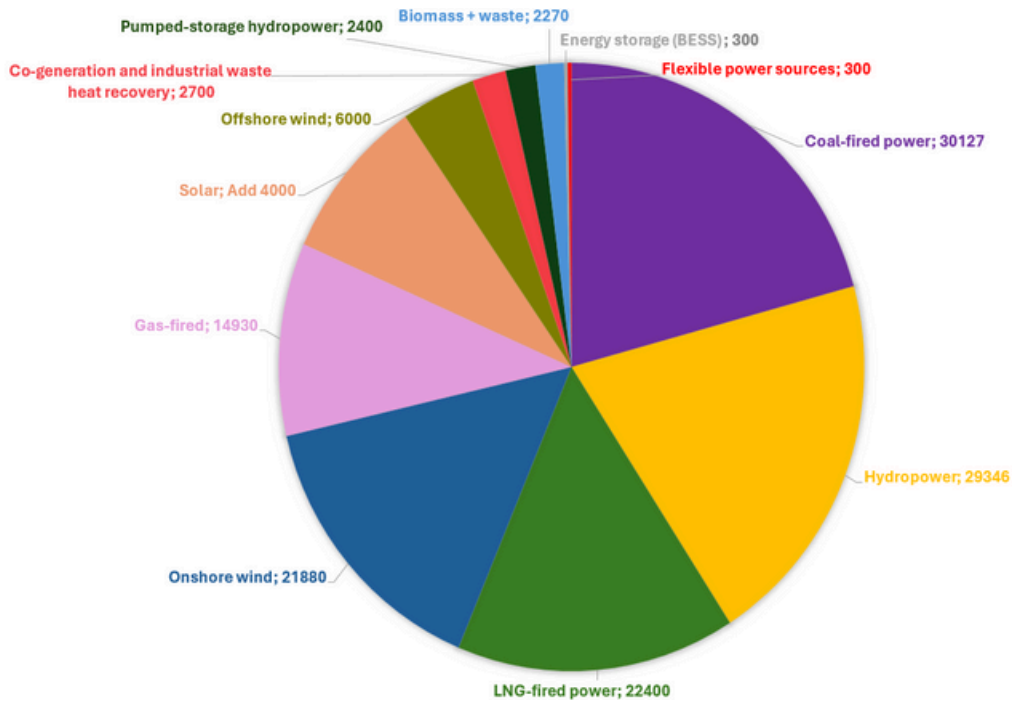
- Slight reduction in 2030 renewables target (excluding hydropower): from 30.9–39.2% to 28–36%.
- Raises 2050 renewable energy share from 67.5-71.5% to 74–75%.
- Reduction in control greenhouse gas emissions from 204-254 million tons to 197-199 million tons in 2030.



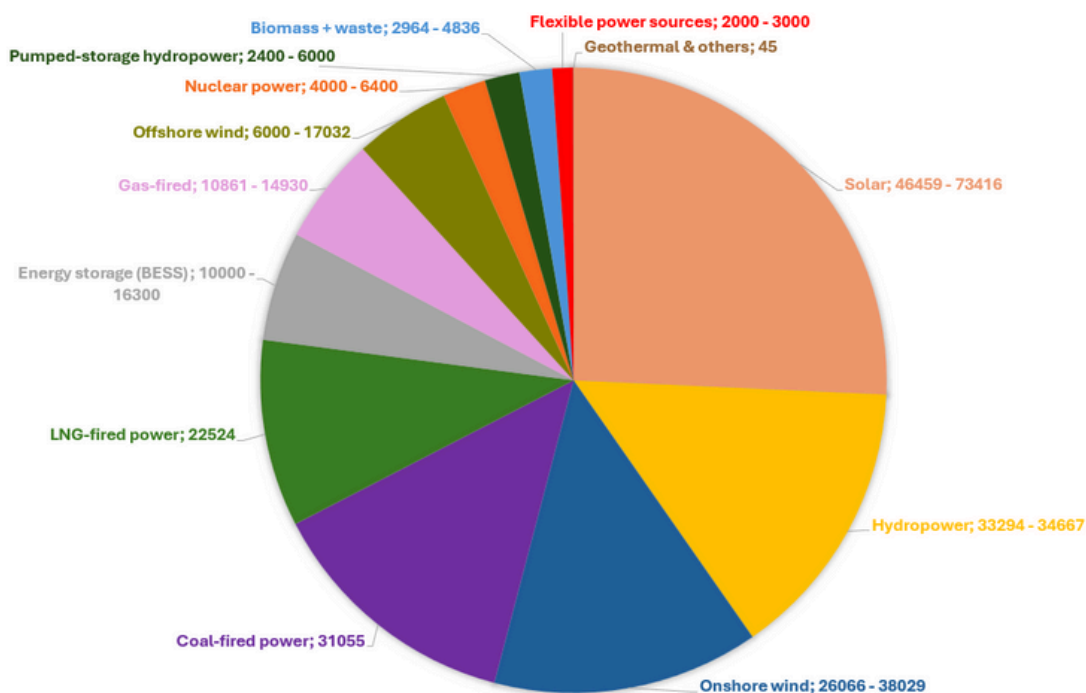
III. NOTABLE UPDATES

3.3. POWER CAPACITY AND STRUCTURE TARGETS

3.3.1. Power capacity & structure targets by 2030 in MW



Targets as recognized in Decision No. 500/QĐ-TTg

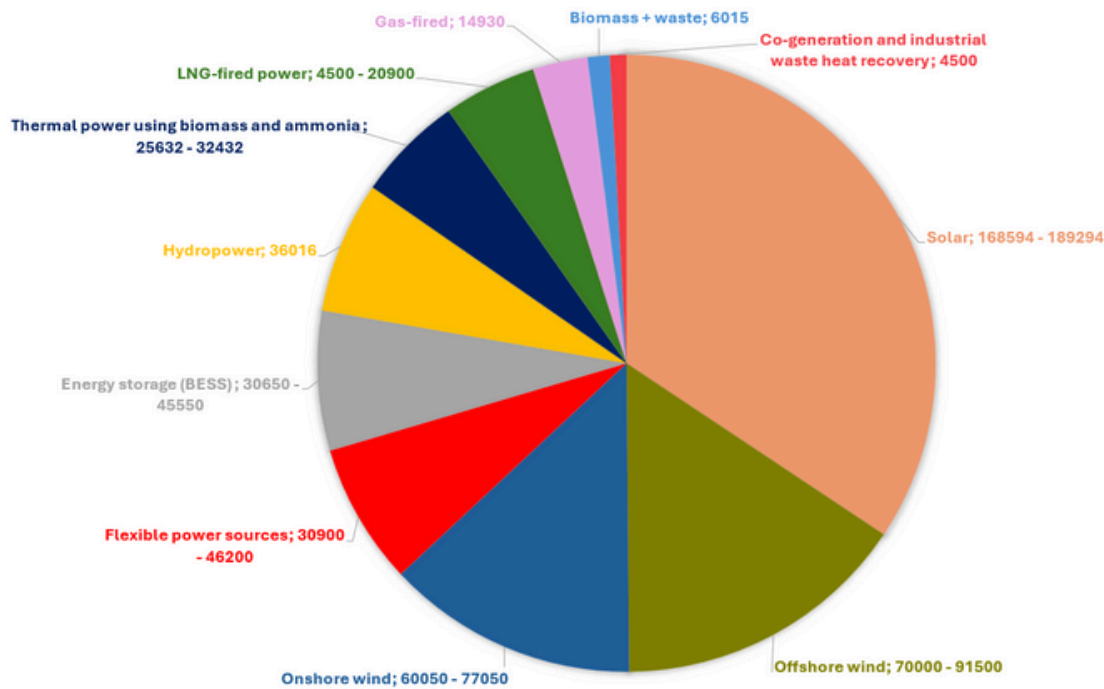


Targets as recognized in Decision No. 768/QĐ-TTg (Updated PDP8)

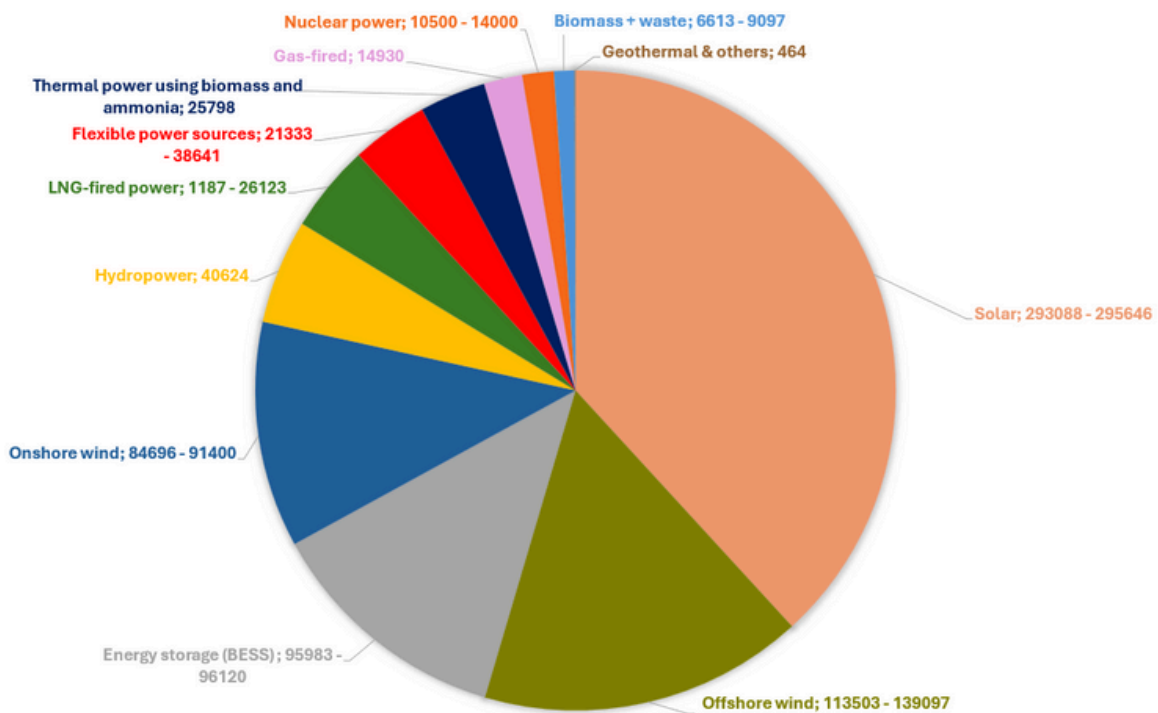
III. NOTABLE UPDATES

3.3. POWER CAPACITY AND STRUCTURE TARGETS

3.3.2. Power capacity & structure targets by 2050 in MW



Targets as recognized in Decision No. 500/QĐ-TTg



Targets as recognized in Decision No. 768/QĐ-TTg (Updated PDP8)

III. NOTABLE UPDATES

3.4. Export-Import Adjustments

- Electricity imports increase:
 - 2030: from 5,000 MW (3.3%) to 9,360–12,100 MW (4.0-5.1% from Laos and China)
 - 2050: from 11,042 MW (1.9-2.3%) to 14,688 MW (1.8-1.9% from Laos and China)
- Export targets to regional partners remain at 5,000–10,000 MW, potentially higher.

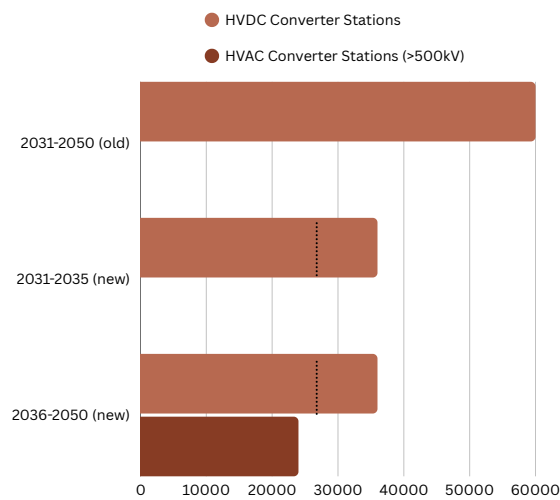
3.5. Investment Capital

Period	Previous Estimate	Updated Estimate
2021–2030	USD 134.7 billion	—
2026–2030	—	USD 136.3 billion
2031–2035	USD 399.2–523.1 billion	USD 130.0 billion
2036–2050		USD 569.1 billion

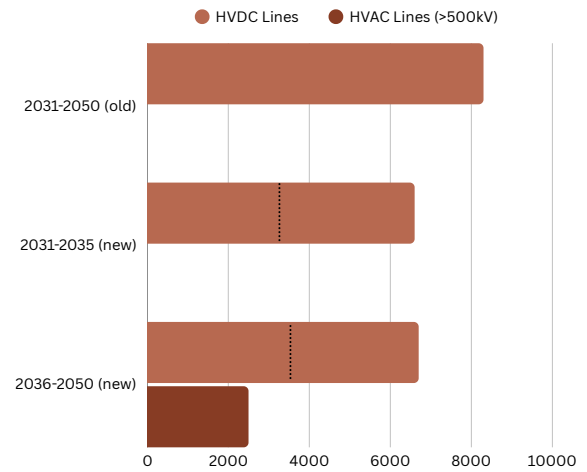


III. NOTABLE UPDATES

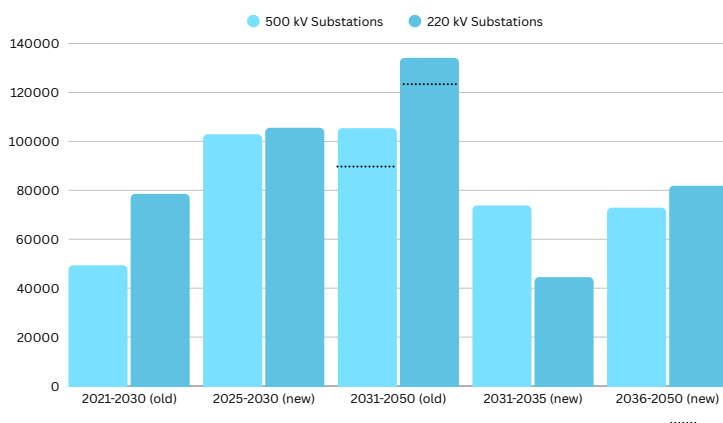
3.6. Transmission Grid Construction



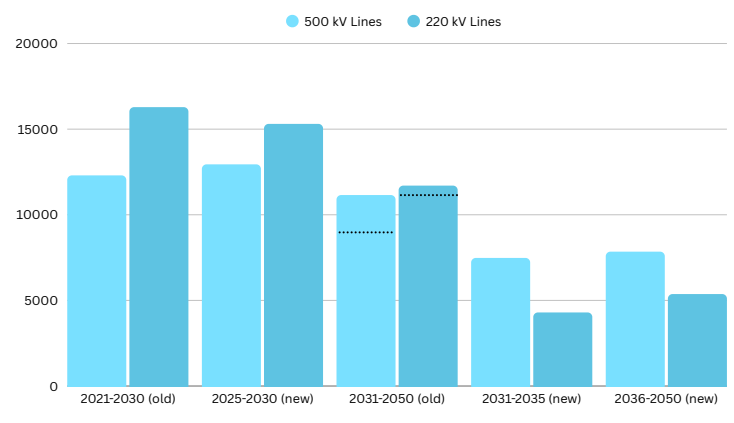
New Converter Station Capacity (MW), 2031-2050



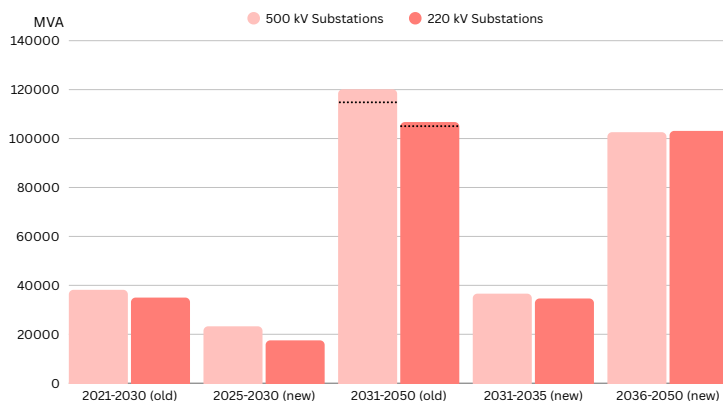
New Converter Station Line Construction Volumes (km), 2031-2050



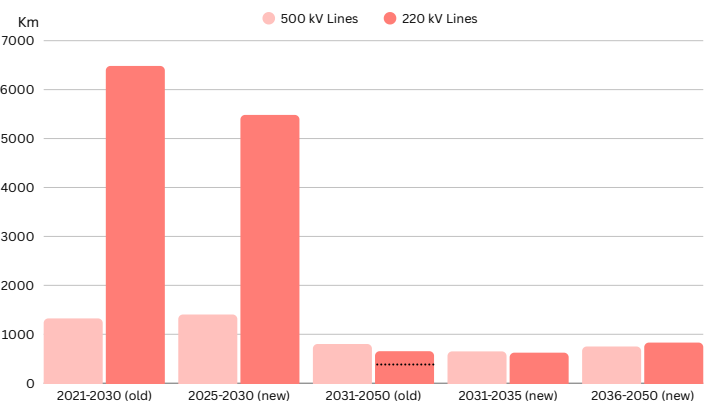
New Transmission Substation Capacity (MVA), 2021-2050



New Transmission Line Construction Volumes (km), 2021-2050



Upgraded Transmission Substation (MVA) 2021-2050



Upgraded Transmission Line Construction Volumes (km), 2021-2050

*The dotted lines indicate the lower bound of the estimated figures. The height of the bar from the dotted line to the top represents the estimated range, meaning the actual figure is projected to fall between the value at the dotted line and the top of the bar.

III. NOTABLE UPDATES

3.7. Legal Framework and Governance Responsibility Development

To ensure cost recovery and fair profits, it is essential to establish regulated, market-based electricity pricing. Additionally, refining the tariff structure with two-part pricing and enhancing transparency can provide better oversight.

Amendments to the Law on Efficient Energy Use are necessary to promote energy conservation. Encouraging domestic participation in renewable energy industries, enhancing localization in the power sector for self-reliance and lower costs, and creating a regulatory framework for nuclear power to ensure safety will support sustainable development. Increasing responsibilities for the Ministry of Industry and Trade and expanding the roles of People's Committees in project planning will facilitate better governance.

Lastly, renaming Vietnam Oil and Gas Group to Vietnam National Energy and Industry Group signifies a broader focus on energy and industry sectors.

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Our core principles

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At VTN, we work closely with our clients to understand clients' needs and render the most valuable advice to our clients and wide society, by and large.

Trust

We build trust in every aspect of our work and remain always faithful and loyal to our clients and clients' interests. Each and every member of VTN are subject to the same.

Novelty

We always eye the industry development and social changes and innovate ourselves correspondingly to put together the best and unique solutions to clients' issues.



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