27% in 2030 to 17-18% in 2045.

source will be gradually increased from 21- amended PDP7 22% in 2030 to 24-25% in 2045.

also be reduced (because currently, the poten- of the PDP8 will have the following key matial for hydropower has nearly been exhaust- jor changes: ed).

will be substantially developed in the future, with the ratio of capacity reaching over 42% in 2045. The ratio of renewable energy sources (including large-scale hydropower) will reach 53% of the total capacity in 2045. With regard to the power generation mix/structure, the Draft PDP8 proposes as follows:

Coal-fired power: The ratio of coal-fired thermal power will gradually be decreased from 40% in 2030 to about 30% in 2045.

**Gas-to-power:** The ratio of gas-to-power will be gradually increased from 24-26% in 2030 to over 28-30% in 2045.

**Renewable power:** The ratio of renewable power sources (including large-scale hydropower) will ensure meeting the targets set out under the Politburo's Resolution No. 55-NQ/ TW dated 11 February 2020 and the Vietnam power development renewable strategy (approved by Decision No. 2068/QD-TTg dated 25 November 2015).

mand of coal import for power generation will increase from 47-52 million tons in 2030 to 75 -96 million tons in 2045, subject to the base- scale hydropower will be reduced by 1.8 GW. load or high-load scenarios.

**Coal-fired power:** The power capacity struc- For LNG import, the demand of importing ture will be changed in the direction of reduc- LNG for power generation will increase from ing the ratio of coal-fired power source from 10-13 million m<sup>3</sup> in 2030 to 32-42 million  $m^3$  in 2045.

Gas-to-power: The ratio of gas-to-power 3. Comparison of the Draft PDP8 and the

In comparison with the Amended PDP7, until Hydropower: The ratio of hydropower will 2030, the power source development program

- Developing solar and wind power sources in Renewable power: Solar and wind sources large scale (with the capacity of wind power sources will be tripled and the capacity of solar power will be doubled in comparison with the capacity under the amended PDP7);
  - Only continuing to develop ongoing coalfired thermal projects currently under construction and under investment promoted for operation during the 2021-2025 period; and
  - Developing more gas-to-power sources utilizing LNG (combined cycle gas turbines) in the northern region and flexible sources (ICE) in both northern and southern regions.

The key differences between the amended PDP7 and the PDP8 for the period of until 2030 are as follows:

Renewable energy: The ratio of renewable energy (excluding hydropower) in the PDP8 has increased to almost 30% in 2030, while such ratio in the amended PDP7 was only at 16.3%. The major changes include: until 2030, onshore and near-shore wind power will develop an additional capacity of 9 GW, and offshore wind power will develop an addition-In addition, the Draft PDP8 notes that the de- al capacity of 2-3 GW, solar power will develop an additional capacity of 7 GW, biomass power will be reduced by 0.5 GW, and small-

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