

Update on key revisions to Power Development Plan VIII (PDP8)

On Apr 15, 2025, Deputy Prime Minister Bui Thanh Son signed Decision No. 768/QĐ-TTg, approving the Adjusted Power Development Plan 8 (PDP8), which includes the following key revisions:

1/ Increased Commercial Electricity Output and Growth Rate: The projected commercial output and growth rate have been significantly increased compared to the previous plan (cttpp) due to a higher GDP growth target. Specifically, output is estimated to reach 557.8 bn kWh by 2030, +10.4% cttpp; and 1,237.7 bn kWh by 2050, +11.1% cttpp. Consequently, the average annual growth rate of commercial electricity output is projected at 10.0% for the 2026-2030 period, compared to 8.6% in the previous plan and 7.5% for the 2030-2050 period, compared to 4.0% in the previous plan.

	PDP8		Adjusted PDP8			
	2030	2050	2030	cttpp	2050	cttpp
Output: bn kWh	505.2	1,114.1	557.8	10.4%	1237.7	11.1%
CAGR	8.6%	4.0%	10.0%		7.5%	

Sources: Adjusted PDP8, ACBS

2/ Augmented Electricity Supply and Shift in Power Source Structure: The electricity supply has also been significantly increased cttpp to accommodate the increased demand. Furthermore, the structure of power sources will undergo a substantial shift towards green energy, prioritizing clean energy sources such as renewable energy and incorporating nuclear power into the adjusted plan. Specifically:

Coal-fired power will be reduced by 15.9% cttpp, reaching 31,055 MW by 2030. The remaining coal-fired power plants will be converted to biomass fuel, -12.3% cttpp, reaching 25,798 MW by 2050.

Gas thermal using LNG will be prioritized for development to compensate for the reduction in coal-fired power, with a +52.2% cttpp, reaching 22,524 MW by 2030. By 2050, it is projected that 18,200 MW of gas-fired power will utilize LNG co-fired with hydrogen, +33.8% cttpp.

Hydropower development will be emphasized to fully exploit its potential, peaking at 40,624 MW by 2050, +14.2% cttpp.

Nuclear power has been specifically added to the adjusted plan, with 4,000 MW expected to be operational by 2030 and increasing to 10,500 MW by the end of 2050. The previous QHĐ8 did not include any plans for nuclear power development.

Wind and Solar power also be prioritized for development, with nearshore wind power more than doubling cttpp, reaching 26,066 MW by 2030 and 84,696 MW by 2050. Offshore wind power will be developed with a capacity of 6,000 MW from 2026 to 2030, a sector not mentioned in the previous plan. By 2050, offshore wind power will reach 113,503 MW, +146.7% cttpp. Similarly, solar power will continue to be developed, reaching 46,459 MW by 2030, +181.7% cttpp and 293,088 MW by 2050, +130.8% cttpp.

	PDP8		Adjusted PDP8			
	2030	2050	2030	cttpp	2050	cttpp
Capacity: MW	132.212	399.294	183.291	38.6%	774.503	94.0%
Coal-fired	36,927	-	31,055	-15.9%	-	
Coal-fired using bio fuel mix	-	-	-		-	
Coal-fired transfer to bio fuels	-	29,432	-		25,798	-12.3%
Domestic gas-turbines/transfer to LNG	14,930	7,900	14,930	0.0%	7,900	0.0%
Domestic gas-turbines transfer to Hydrogen		7,030				0.0%
LNG gas-turbines	14,800	-	22,524	52.2%	1,887	
LNG gas-turbines using Hydrogen mix	-	13,600	-		18,200	33.8%

	PDP8		Adjusted PDP8			
	2030	2050	2030	ctttp	2050	ctttp
LNG gas-turbines transfer to Hydrogen	-	14,800	-		11,325	-23.5%
Flexible thermal power	300	24,300	2,000	566.7%	21,333	-12.2%
Hydro	27,353	35,571	33,294	21.7%	40,624	14.2%
Nuclear			4,000		10,500	
Onshore Wind power	11,905	49,170	26,066	119.0%	84,696	72.3%
Offshore	-	46,000	6,000		113,503	146.7%
Solar energy	16,491	126,984	46,459	181.7%	293,088	130.8%
Bio energy	1,230	6,015	1,523	23.8%	4,829	-19.7%
Hydro Pump-Energy and Battery	1,500	22,950	12,400	726.7%	116,674	408.4%
Import	4,076	11,042	9,360	129.6%	14,688	33.0%
Export	-	5,000	-		10,000	100%

Sources: Adjusted PDP8, ACBS

3/ Adjusted Investment Capital: With the anticipated significant increase in electricity output and installed capacity, investment capital has also been adjusted in the new plan. Specifically, investment capital for the 2026-2030 period has increased by 140.6% cttpp, estimated at \$136.3 bn, with \$118.2 bn allocated for power source development and \$8.1 bn for infrastructure and transmission line development. Similarly, for the 2031-2050 period, total investment capital has increased by 75.1% cttpp, estimated at \$699.1 bn, with \$655.3 bn allocated for power sources and \$3.8 bn for transmission line infrastructure.

Investment Capital: bn \$	PDP8		Adjusted PDP8			
	2026 - 2030	2031 - 2050	2026 - 2030	cttpp	2031 - 2050	cttpp
Sources	49.3	364.4	118.2	139.8%	655.3	79.8%
Grids	7.3	34.8	18.1	147.9%	43.8	25.9%
Total	56.7	399.2	136.3	140.6%	699.1	75.1%

Sources: Adjusted PDP8, ACBS

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