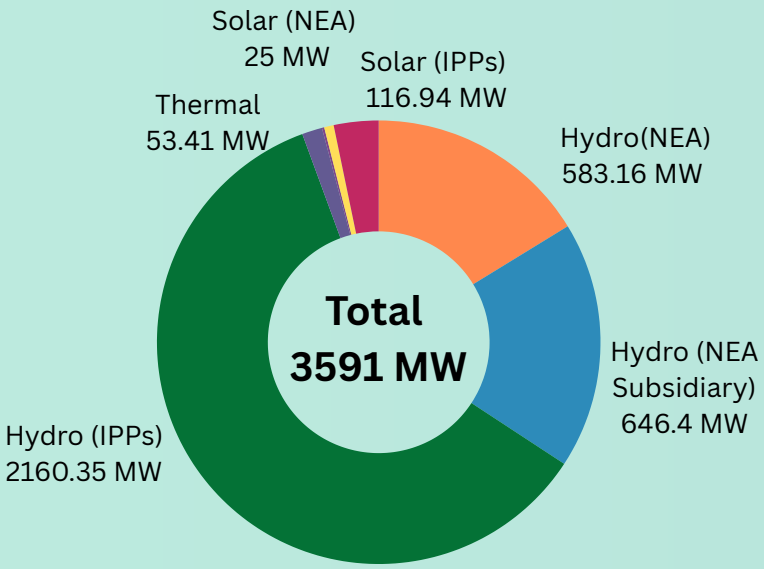
Electricity Scenario in FY 2024/25



434 MW of installed capacity was added in FY 2024/25

97.6 %

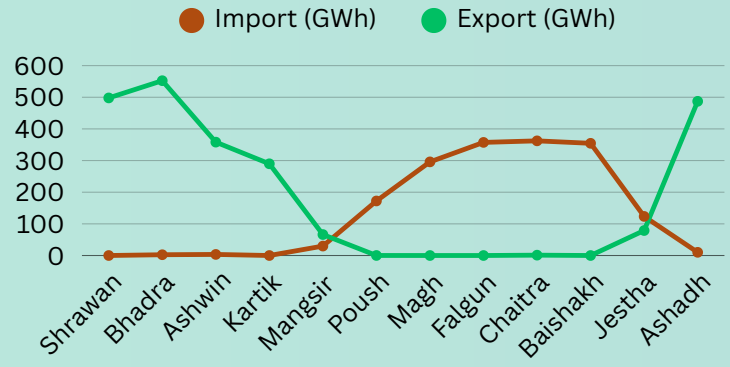
has electricity access, while 18 local level yet to have access to national grid

12.26%

distribution loss with Karnali Provincial Office recording the highest loss at 15.27% and Bagmati Provincial Office the lowest at 6.97%

Import & Export (GWh) in last 10 years

Imported and Exported Energy(GWh) in FY 2024/25



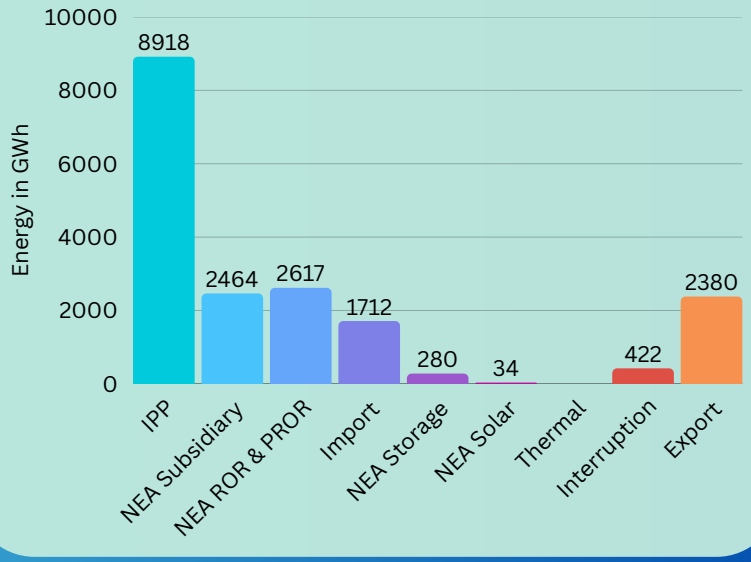
8.23 %

decrease in imported energy, amounting to 1711.5272GWh

22.3 %

increase in exported energy, amounting to 2,380 GWh to India and 40 MW to Bangladesh, began from June 15, 2025.

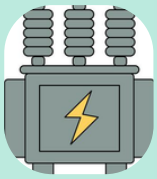
Energy Balance of FY 2024/25



6760 Km
of transmission line with increment of 247km

2034 Km
under construction

6605 Km
planned and proposed



14123 MVA
of Substation with increment of 1073MVA

6338.5MVA
under construction

16177.5 MVA
planned and proposed

31 Hydropower 8 Solar Project

with capacity of 932.031 MW (Hydropower) and 170 MW (Solar) respectively, signed PPA in FY 2081/82. The status of Energy Mix for signed and processing PPAs as of FY 2081/82 are shown in table

	PPA Signed		PPA Processing	
	No.	Installed Capacity (MW)	No.	Installed Capacity (MW)
ROR	402	6720	152	3889
PROR	51	4196	40	6231
Storage	1	140	6	5117
Bagasse	2	6		
Solar	38	375	55	790
Total	494	11,436	253	16,027

7

Hydropower of NEA Subsidiary with 474 MW Under Construction

- Tanahu HP (storage type) - 140 MW
- Madhya Bhotekoshi HP- 102 MW
- Rahughat HP- 40 MW
- Upper Trishuli 3B- 37 MW
- Tamakoshi-V -94.8 MW
- Upper Modi 'A'- 42 MW
- Upper Modi- 18.2 MW

NEA is focusing on storage systems to improve energy security during the dry season. About 3,064 MW of hydropower projects are in the planned and proposed stage, of which 1,158 MW are storage type:

- Uttar Ganga Storage (828 MW)
- Aadhikhola Storage (180 MW)
- Begnas-Rupa Pumped Storage (150 MW)

Similarly, in the solar-with-storage sector, several projects under Karnali Solar Energy Project is in initial phase, including

- Mugu (360 kWac with 2,200 MWh BESS)
- Dolpa (620 kWac with 2,000 MWh BESS)
- Jumla (950 kWac with 3,800 MWh BESS)
- Humla (995 kWac with 3,000 MWh BESS)

Source: NEA Annual Report FY 2024/25