

Power Projects in Nepal
Existing, Under Construction, Planned and Proposed
2006/07

I) Major Hydro Projects:

(a) Existing

<u>Hydro projects</u>	<u>Installed Capacity (kW)</u>
1. Trisuli	24,000
2. Sunkosi	10,050
3. Gandaki	15,000
4. Kulekhani No. 1	60,000
5. Devighat	14,100
6. Kulekhani No. 2	32,000
7. Marsyangdi	69,000
8. Puwa Khola	6,200
9. Modi Khola	14,800
10. Kali Gandaki "A"	144,000

Total	389,150

(b) Under Construction

1. Middle Marsyangdi	70,000
2. Chamelia	30,000

Total	100,000

(c) Planned and Proposed

1. Seti (West)	750,000
2. Arun-3	402,000
3. Budhi Gandaki	600,000
4. Kali Gandaki No. 2	660,000
5. Lower Arun	308,000
6. Upper Arun	335,000
7. Karnali (Chisapani)	1,080,000
8. Upper Karnali	300,000
9. Pancheswar (Mahakali)	6,480,000
10. Thulo Dhunga	25,000
11. Tamur / Mewa	101,000
12. Upper Trisuli	61,000
13. Dudh Koshi (Storage)	300,000
14. Budhi Ganga	20,000
15. Rahughat Khola	27,000
16. Likhu - 4	40,000
17. Kabeli 'A'	30,000
18. Upper Marsyangdi "A"	121,000
19. Kulekhani No 3	14,000
20. Upper Trisuli 3 B	44,000
21. Andhi Khola (Storage)	180,000
22. Khimti II	27,000
23. Upper Modi	14,000
24. Langtang Khola (Storage)	218,000
25. Madi Ishaneshwar (Storage)	86,000
26. Upper Seti (Storage)	122,000
27. Kankai (Storage)	60,000
28. Upper Tamakoshi	309,000
29. Upper Modi 'A'	42,000
30. Hewa Khola	10,000

Total	12,766,000

II) Small Hydro Projects**(a) Existing (Grid connected)**

<u>Hydro Projects</u>	<u>Installed Capacity (kW)</u>
1. Pharping***	500
2. Panauti	2,400
3. Sundarijal	640
4. Phewa (Pokhara)	1,088
5. Seti (Pokhara)	1,500
6. Tinau (Butwal)	1,024
7. Baglung	200
8. Tatopani (Myagdi) (I + II)	2,000
9. Chatara	3,200
10. Jomsom **	240
Total	12,792

Existing (Isolated)

1. Dhankuta	240
2. Jhupra (Surkhet)	345
3. Doti	200
4. Phidim**	240
5. Gorkhe (Ilam)***	64
6. Jumla**	200
7. Dhading	32
8. Syangja***	80
9. Helambu	50
10. Salleri (SCECO) *	400
11. Darchula I and II **	300
12. Chame	45
13. Taplejung **	125
14. Manang	80
15. Chaurjhari (Rukum) **	150
16. Syarpudaha (Rukum) **	200
17. Khandbari**	250
18. Terhathum**	100
19. Bhojpur**	250
20. Ramechhap	150
21. Bajura	200
22. Bajhang**	200
23. Aarughat (Gorkha)	150
24. Okhaldhunga **	125
25. Rupalgad (Dadeldhura)	100
26. Surnaiyagad (Baitadi)	200
27. Namche (KBC) *	600
28. Accham	400
29. Dolpa	200
30. Kalikot	500
Total	6,176

(b) Under Construction

1. Gamgad	400
2. Heldung	500
Total	900

III) Private Sector Plants**(a) Existing**

1.	Andhikhola (BPC)	5,100
2.	Jhimruk (BPC)	12,000
3.	Khimtikhola (HPL)	60,000
4.	Bhotekoshi (BKPC)	36,000
5.	Sange Khola (SHP)	183
6.	Indrawati (NHPC)	7,500
7.	Chilime (CPC)	20,000
8.	Piluwa Khola (AVHP)	3,000
9.	Chaku Khola (APCo)	1,500
10.	Sunkoshi Small (SHP)	2,500
11.	Rairang (RHPD)	500
12.	Khudi Khola (Khudi HP)	3,450
13.	Baramchi (UH)	980

Total **1,52,713**

(b) Under Construction

1.	Sisne Khola (GBHP)	750
2.	Pheme Khola (KHP)	995
3.	Salinadi (KSHPS)	232
4.	Thoppal Khola (THP)	1,650
5.	Mardi Khola (GHP)	3100
6.	Pati Khola (UHP)	996
7.	Ridi Khola (RHPD)	2400

Total **10,123**

(c) Power Purchase Agreement (PPA) concluded:

(Preliminary Works in Progress):

Hydro Projects	Installed Capacity (kW)	
1.	Mailung Khola (MKPC)	5,000
2.	Daram Khola (GHP)	5,000
3.	Tadikhola (ASHP)	970
4.	Upper Mai Khola (ENDE)	3,100
5.	Lower Indrawati (SHP)	4,500
6.	Lower Nyadi (BHP)	4,500
7.	Madi-I (AGPLtd.)	10,000
8.	Upper Modi Khola (GITEC)	14,000
9.	Siuri Khola (NGPL)	990
Total		48,060

During FY 2006/07- 8 PPAs have been concluded, which are as follows:

i.	Phawa Khola (SHC), Taplejung	2,079
ii.	Ridi Khola (RHPD), Gulmi	2,400
iii.	Mai Khola (HDHC), Ilam	2,400
iv.	Belkhu Khola (MFIC), Dhading	320
v.	Seti -2 (THP), Kaski	979
vi.	Lower Chaku (LBPN), Sindhupalchowk	1,765
vii.	Upper Handi Khola (CPDS), Sindhupalchowk	991
viii.	Khudi Khola (Khudi SHP), Lamjung	3,450
ix.	Baramchi Khola SH, Sindhupalchowk	980
Total		15,864

PPA concluded projects under the process of commissioning :

i.	Sisne Khola (GBHP)	750
ii.	Pheme Khola (KHP)	995
iii.	Salinadi (KSHPS)	232
iv.	Thoppal Khola (THP)	1,650

- Total Number of PPA concluded Independent power Producer (IPP) projects have now reached 35 projects of total 228.94 MW. Of which 13 IPP Projects of total capacity 152.713 MW are now in operation.

iv) Thermal Power Stations

Existing

1.	Biratnagar	1,028
2.	Hetauda	12,750
3.	Marsyangdi	2,250
4.	Duhabi Multifuel -1	26,000
5.	Duhabi Multifuel -2	13,000
	Total	55,028

v) Solar Power Stations (KW)

Existing

1.	Simikot	50
2.	Gamgadhi	50
	Total	100

vi) Sub-Station Capacity ****

132/11 kV	71.00	MVA
132/33 kV	358.00	MVA
132/66 kV	211.00	MVA
66/11 kV	424.00	MVA
66/33 kV	25.00	MVA
	Total	1089.00 MVA

vii) Transmission Line Length *****

132 kV	Transmission Line	2076.0	ckt KM
66 kV	Transmission Line	586.0	ckt KM
66 kV	Underground cable	7.0	ckt KM
33 kV	Single Circuit	2485.0	KM

Note : * Private and Others. ** Leased to the Private Sector. *** Not in Normal Operation.

**** These capacities are within the Grid Substations only. Trasformers within Distribution Substation, Powerhouses and local distribution are not included. ***** IPPs lines not included.

Installed capacity in Nepal Electricity Authority : **617.478 MW** (including private and others).

Compiled by Research and Information Division of FNCCI from Nepal Electricity Authority.