

ESN

ENERGY STATISTICS OF NEPAL 2025

VOL -III 2024/025



AKNOWLEDGMENT

We are pleased to introduce the inaugural edition of Nepal's Energy Statistics (NES), a significant publication that consolidates key data and insights (2024/2025) from across the country's energy landscape. Published with the support of the Research and Development Fund of IPPAN, this biannual report aims to serve as a vital resource, with a focus on areas such as hydropower and solar energy, drawing from both primary and secondary data sources.

We extend our sincere appreciation to Mr. Ganesh Karki, President of IPPAN, General Secretary, Mr. Balaram Khatiwada, and the esteemed members of the executive committee for their continued support and encouragement throughout the development of this publication.

We are also grateful to Mr. Bhim Gautam, Chief Executive Officer of IPPAN, for his guidance in shaping the content and structure of the report; to Ms. Anjali Maharjan for editing the report, to Engineer Sugam Bhattarai for his diligent work in data collection; to Mr. Bishwa Sapkota for his creative design contributions; to finalize which have added great value to this edition.

Background

Nepal lacks detailed energy statistics, particularly on the private sector's role in energy development. This has left policymakers, experts, and the public unaware of the private sector's contributions. To fill this gap, IPPAN (Independent Power Producers' Association, Nepal), representing 500 private energy companies, is releasing Energy Statistics Nepal. This data will support informed policymaking and allow stakeholders to analyse and make better decisions in the energy sector.

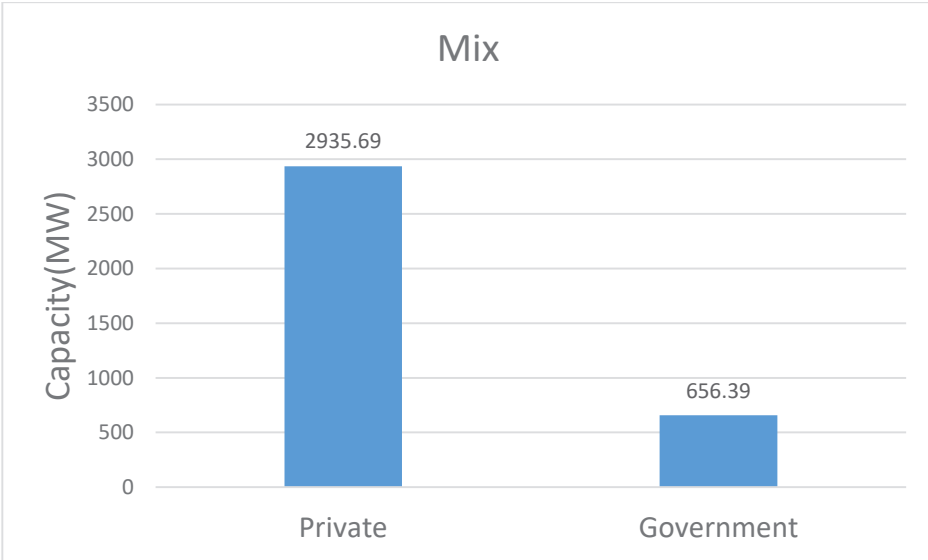
Production

S.N.	Project Type	Private		Government	
		No	Capacity(MW)	No	Capacity(MW)
1	Hydropower*	184	2812.75	31**	578.62
2	Solar	20	116.94	1	24.36
3	Thermal	0	0	2	53.41
4	Cogeneration	2	6	0	0
	Total	206	2935.69	34	656.39
	Grand Total	Total Number	240	Total Ca- pacity	3592.08

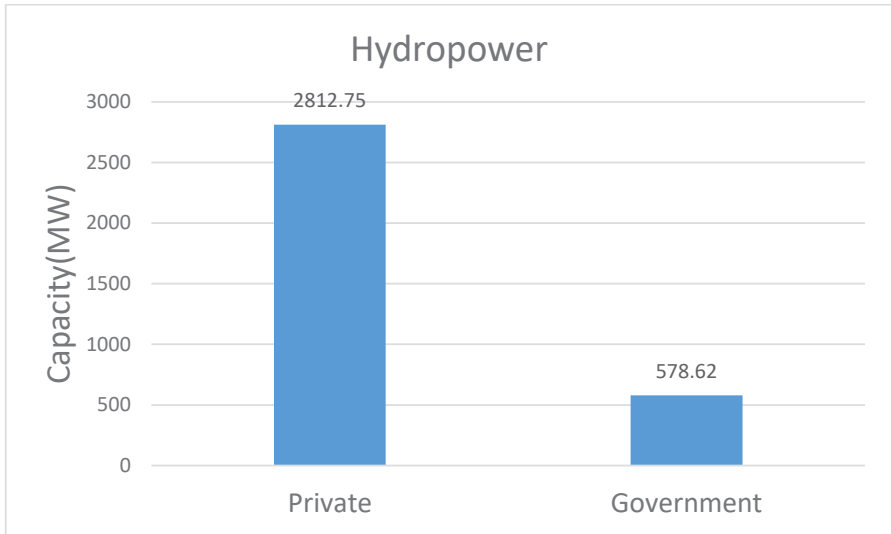
*private and PPP

**Grid Connected Only

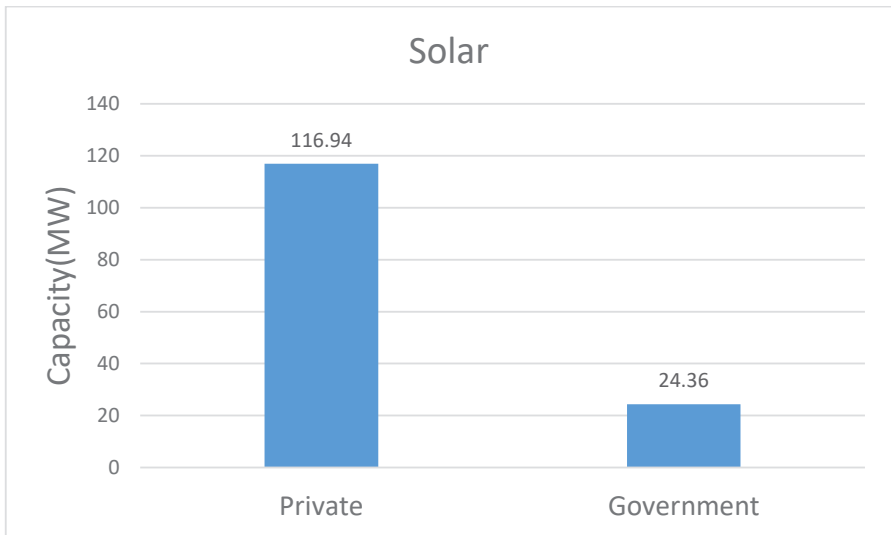
OPERATIONAL PROJECT-MIX



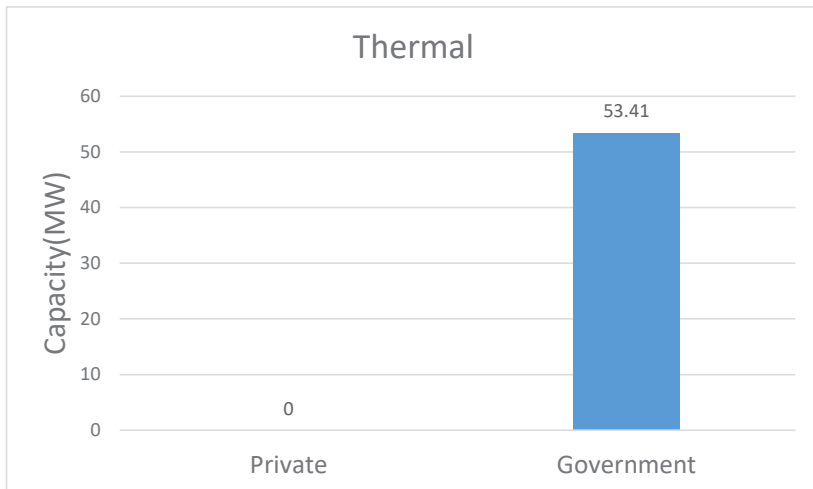
HYDROPOWER



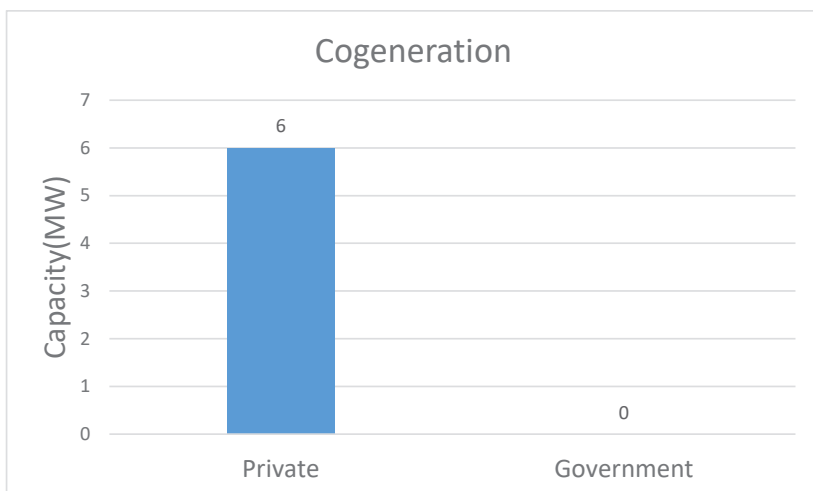
SOLAR



THERMAL

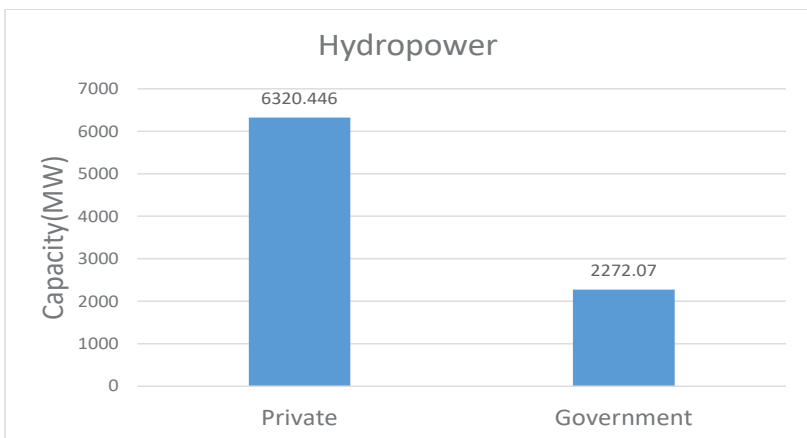
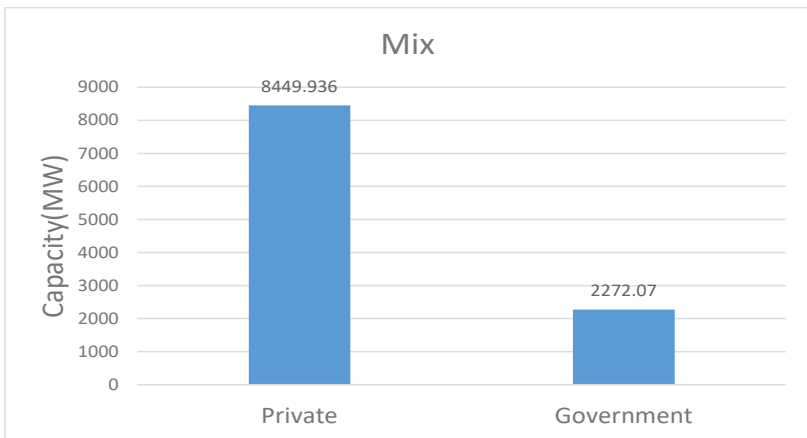


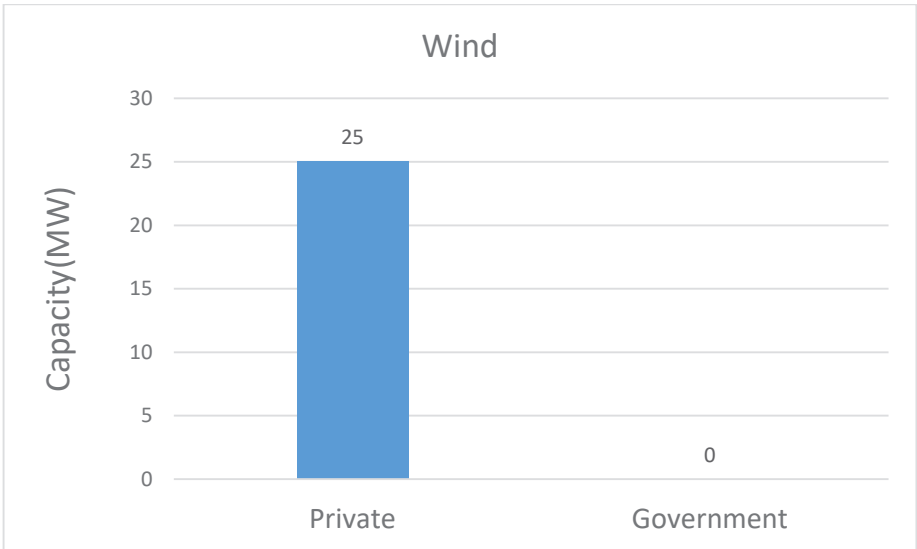
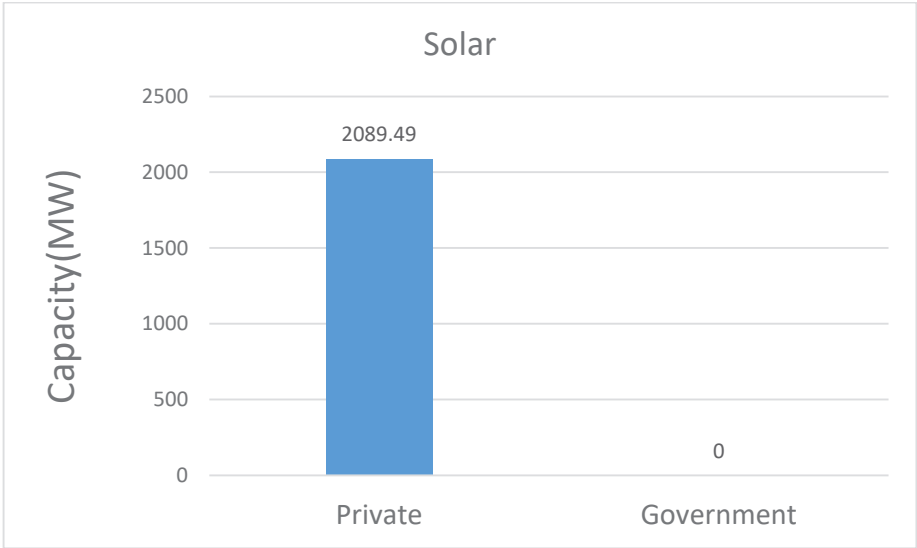
COGENERATION

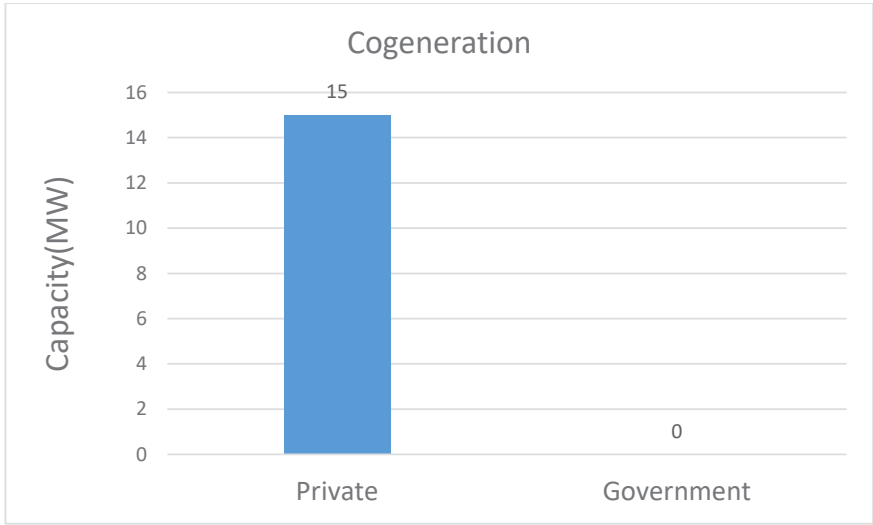


Survey Licence

S.N.	Project Type	Private		Government	
		No	Capacity	No	Capacity
1	Hydropower	100	6320.446	6	2272.07
2	Solar	96	2089.49	0	0
3	Wind	5	25	0	0
4	Cogeneration	1	15	0	0
	Total	202	8449.936	6	2272.07
Grand Total		Total Number	208	Capacity	10722.01

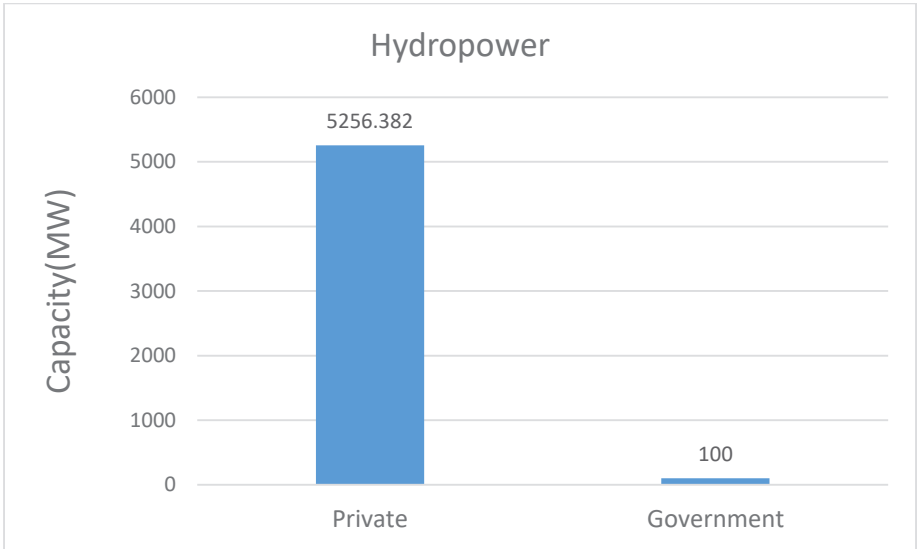
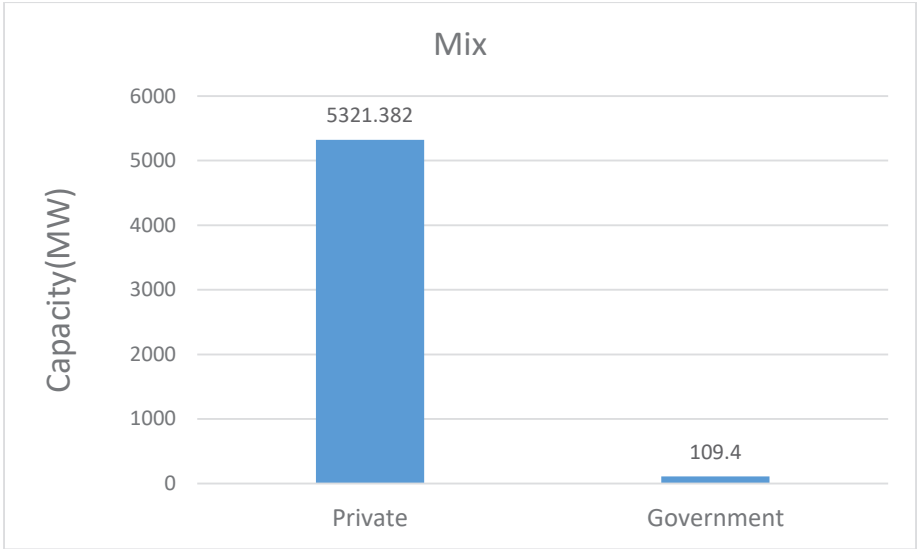


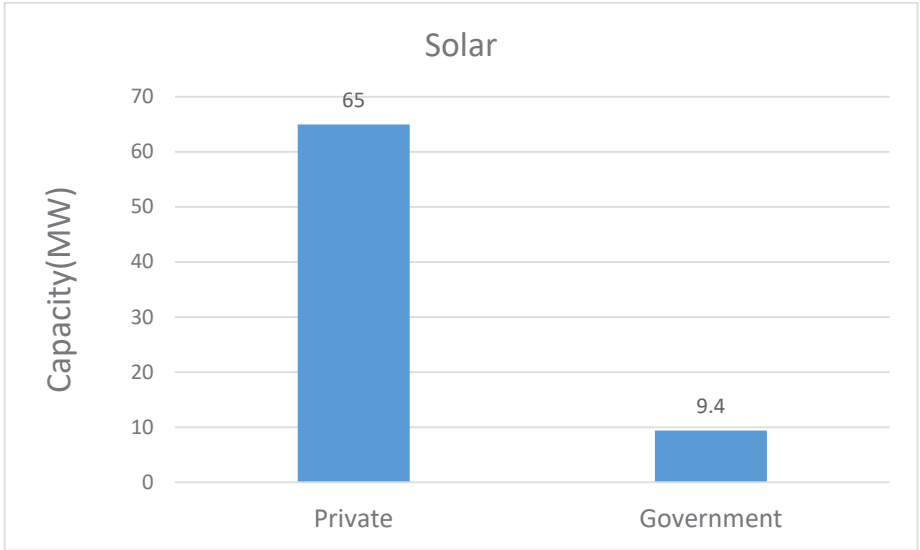




Application for Survey Licence

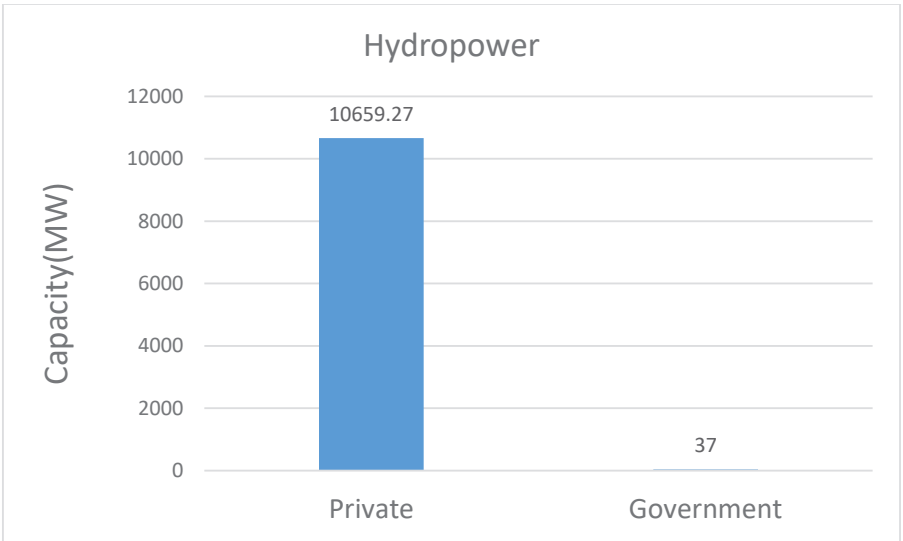
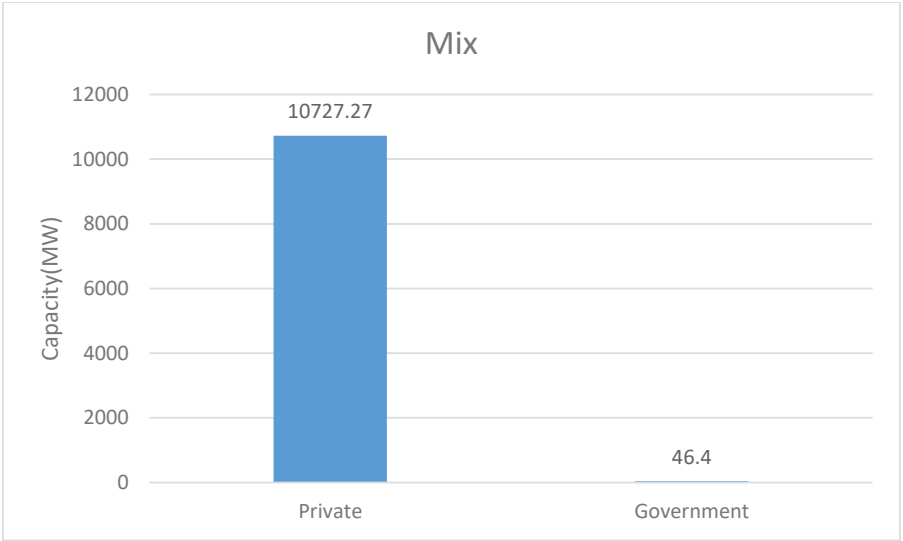
S.N.	Project Type	Private		Government	
		No	Capacity	No	Capacity
1	Hydropower	161	5256.382	1	100
2	Solar	8	65	3	9.4
	Total	169	5321.382	4	109.4
Grand Total		Total Number	173	Total Capacity	5430.782

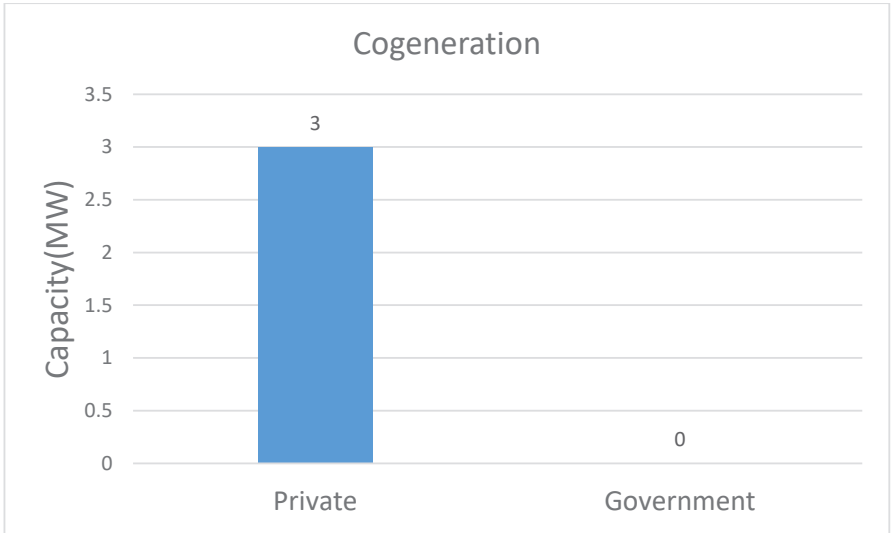
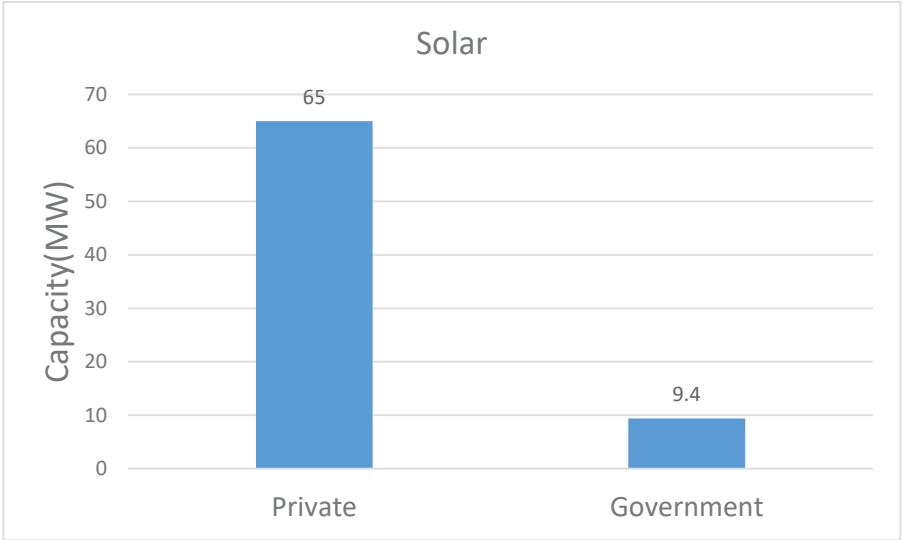




CONSTRUCTION LICENCE

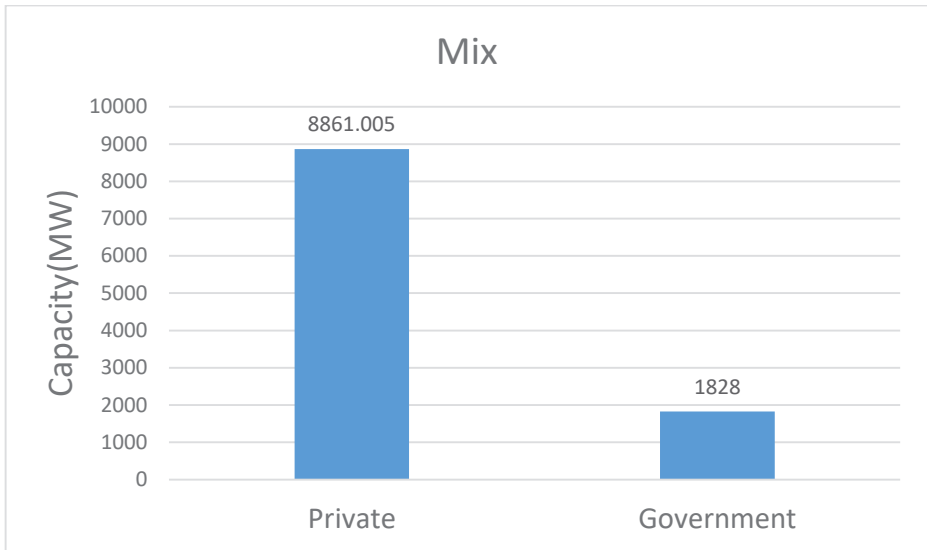
S.N.	Project Type	Private		Government	
		No	Capacity	No	Capacity
1	Hydropower	259	10659.27	1	37
2	Solar	8	65	3	9.4
3	Co-generation	1	3	0	0
	Total	268	10727.27	4	46.4
Grand Total		Total Number	272	Total Capacity	10773.67

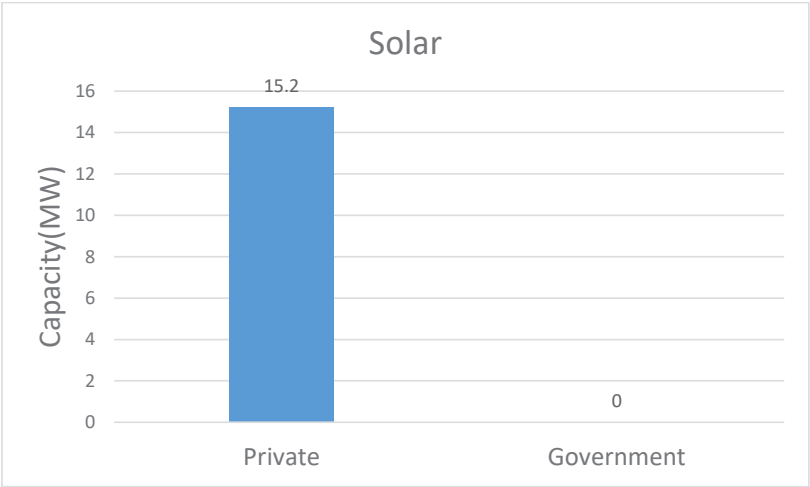
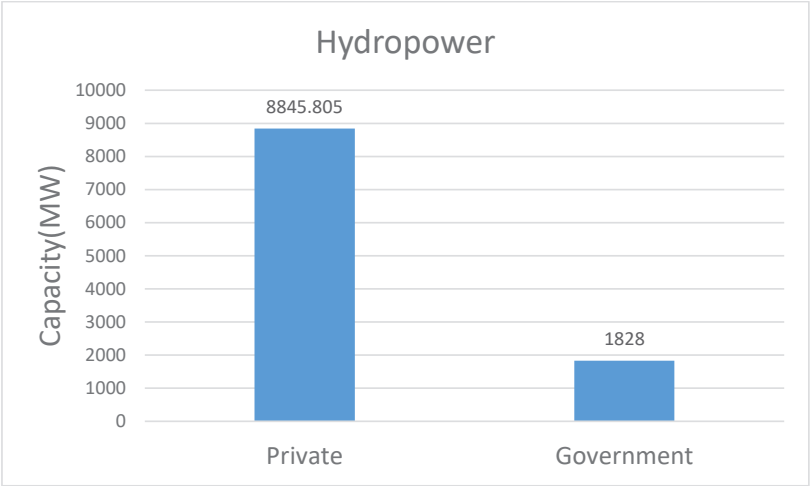




APPLICATION FOR CONSTRUCTION LICENCE

S.N.	Project Type	Private		Government	
		No	Capacity	No	Capacity
1	Hydropower	61	8845.805	5	1828
2	Solar	3	15.2	0	0
	Total	64	8861.005	5	1828
Grand Total		Total Number	69	Total Capacity	10689.01

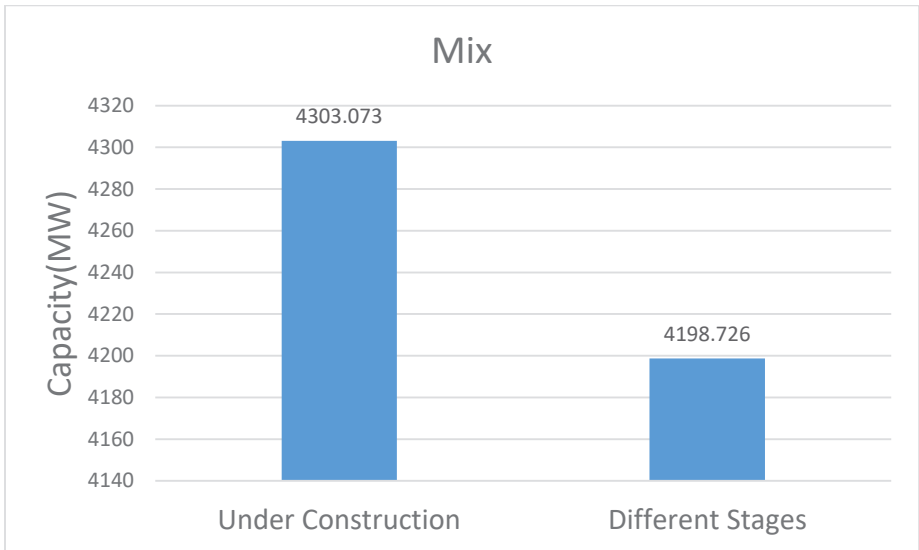


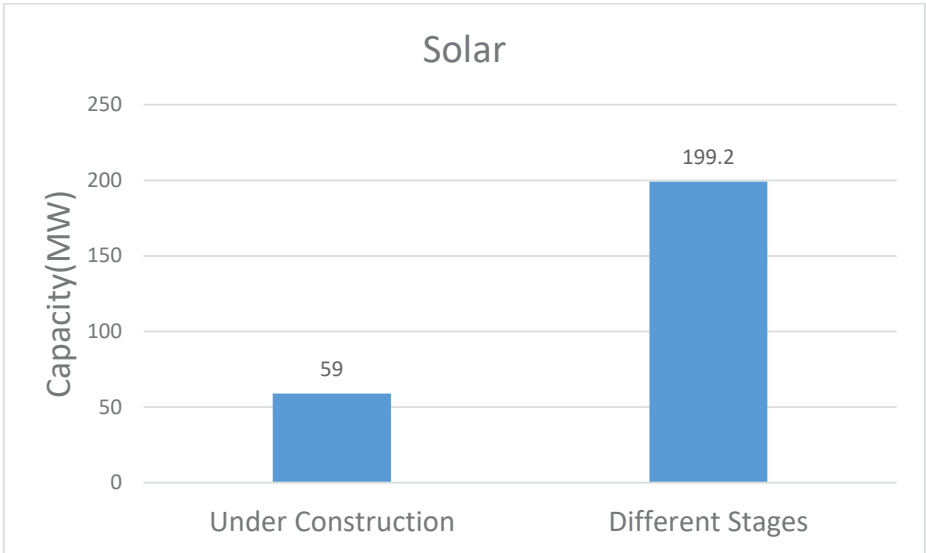
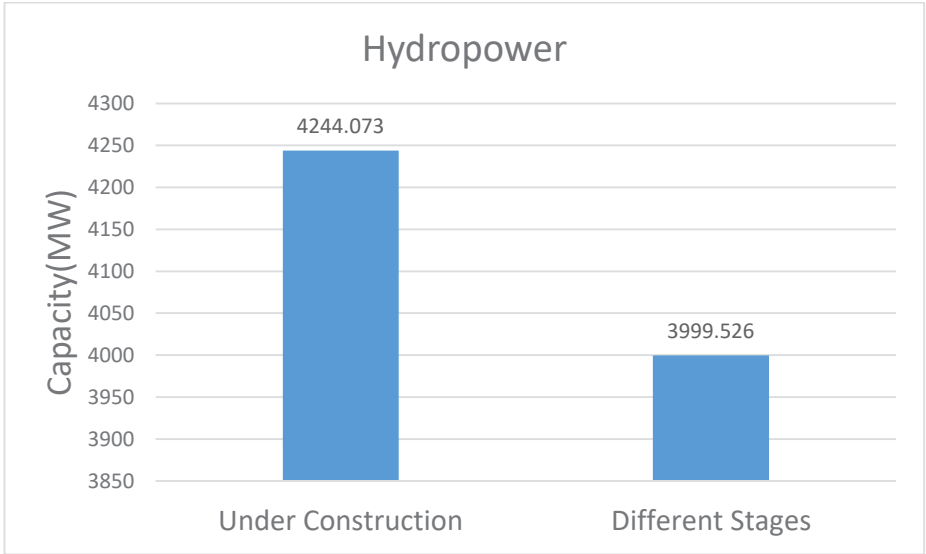


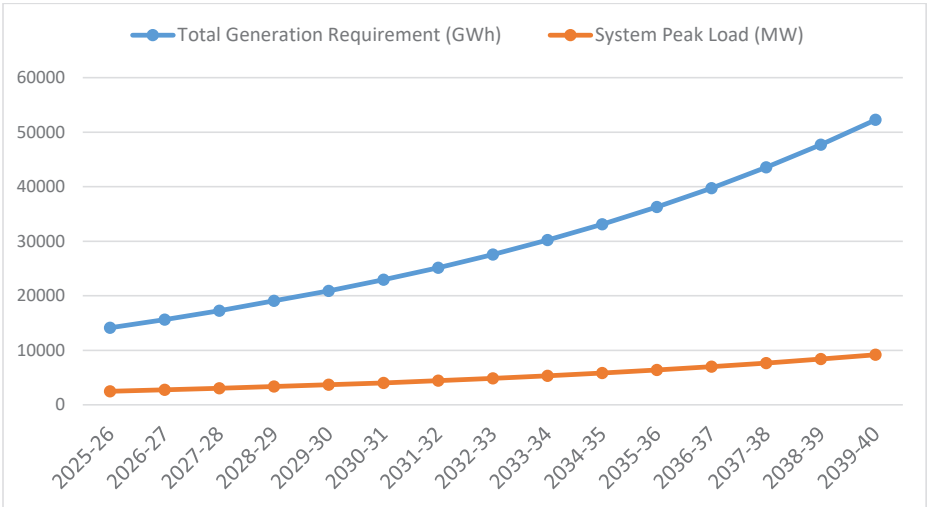
.PPA

Mix

Project Type	Under Construction		Financial Closer Stage	
	Number	Capacity(MW)	Number	Capacity (MW)
Hydropower	137	4244.073	134	3999.526
Solar	5	59	13	199.2
Total	142	4303.073	147	4198.726
Private	142	4303.073	147	4198.726
Government	0	0	0	0







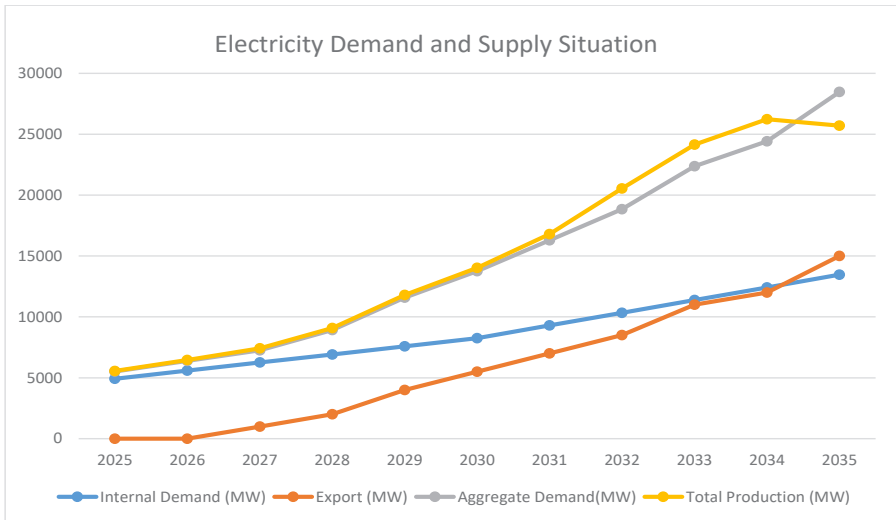
Fiscal Years	Total Generation Requirement (GWh)	System Peak Load (MW)
2025-26	14132.7	2482
2026-27	15625.2	2744.2
2027-28	17265.4	3032.2
2028-29	19070.5	3349.2
2029-30	20914.1	3673
2030-31	22931.6	4027.3
2031-32	25139.6	4415.1
2032-33	27556.4	4839.5
2033-34	30201.7	5304.1
2034-35	33097.5	5812.7
2035-36	36267.6	6369.5
2036-37	39738.4	6979
2037-38	43538.5	7646.4
2038-39	47699.4	8377.1
2039-40	52255.8	9177.4

Source: NEA

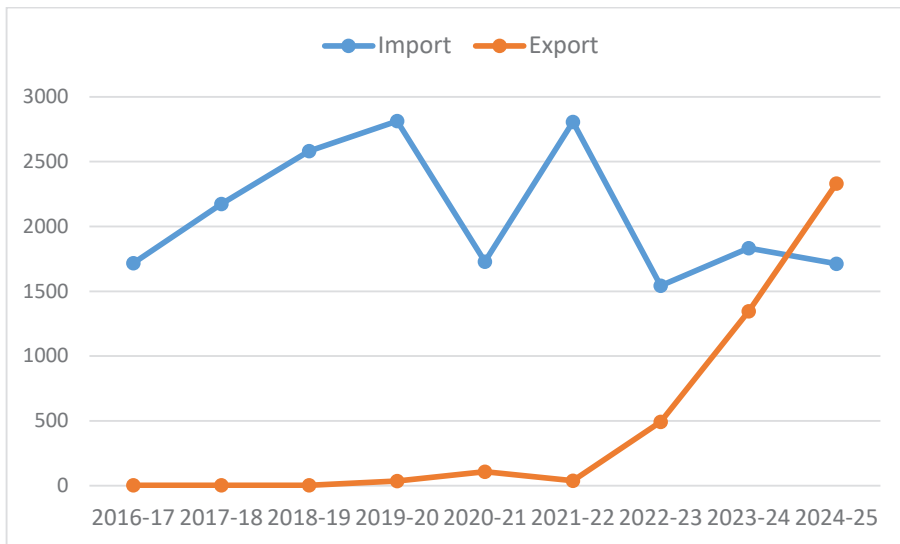
28,500 MW Production Target

	Internal Demand (MW)	Export (MW)	Aggregate Demand(MW)	Total Production (MW)
2025	4917	600*	5517	5561
2026	5585	800*	6385	6468
2027	6253	1000	7253	7417
2028	6921	2000	8921	9083
2029	7588	4000	11588	11797
2030	8256	5500	13756	14031
2031	9299	7000	16299	16789
2032	10341	8500	18841	20540
2033	11383	11000	22383	24148
2034	12425	12000	24425	26233
2035	13468	15000	28468	25713

Source: Energy Development Roadmap, 2081



Import and Export with India (Mu)



Period	Import	Export
2016-17	1718	3
2017-18	2175	3
2018-19	2582	3
2019-20	2813	35
2020-21	1729	107
2021-22	2806	38
2022-23	1543	494
2023-24	1833	1346
2024-25	1711.52	2331.73

1. Total Private Sector Investment



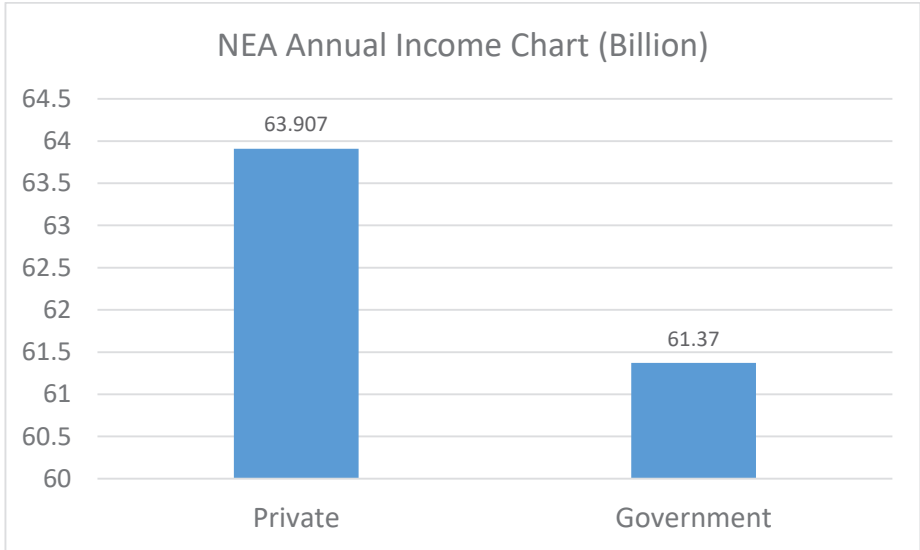
2. Contribution of energy

- a. Contribution of energy in the form of royalties, dues and others
6. 72 billion (2080/081)
- b. Duties and Royalties
4. 20 Billion (2081/082)

Source: DOED

3. The contribution of the private sector to NEA's Annual income

Private	63.907 billion
NEA	61.370 billion
Total	125.277 billion
Source: NEA	



4. Annual direct employment from private sector

Total	314.160 thousand
In completed projects	2060 (permanent)
In under-construction projects	312.10 thousand (Temporary)

Source: IPPAN

5. Contribution of private sector in social development

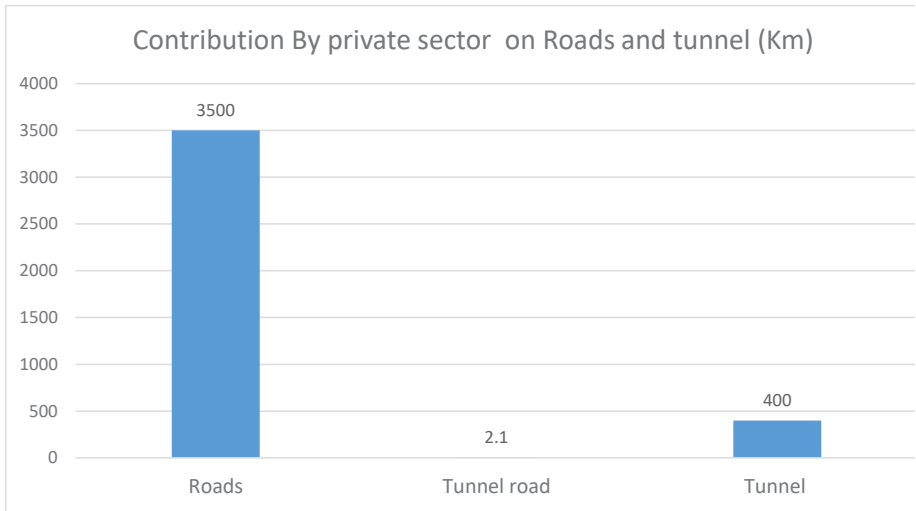
Roads	3500 km
Tunnel Road	2.1 km
Tunnel Road	400 km
Health Center	150
School	160
Belly Bridge	220
Water supply project	103
Irrigation project	52
Providing Teacher	230
providing ambulances	35

6. The total production in the private sector past one year = 434.125 MW

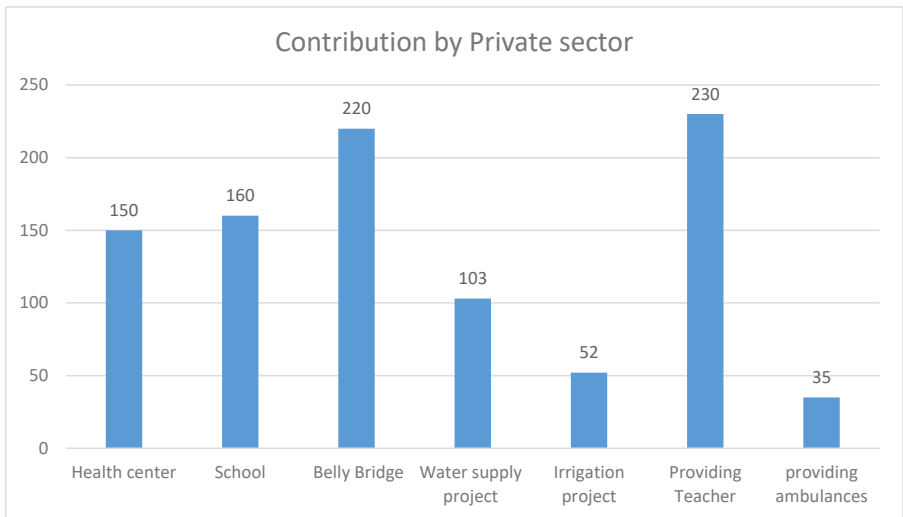
Source: NEA

7. Project of 28500 MW for Development

Direct Money to village	0.915 Billion NPR
Demand Based Money Expenditure to village	1.4 Billion NPR
Total manpower EmploymentNumber	676000
Source: Energy Development Roadmap, 2081	



Source: IPPAN



Source: IPPAN

Existing High Voltage Transmission lines

S.N.	Transmission Line	Length Circuit km (Total)
1	132 KV	4005.87
2	220 Kv	1254
3	220 KV	384
4	400 KV	514.46

Source : NEA

Under Construction high voltage transmission line

Transmission Directorate

S.N.	Transmission Line	Length Circuit km (Total)
1	132 KV	811
2	220 Kv	160
3	400 KV	270

Source : NEA

Project Management Directorate

S.N.	Transmission Line	Length Circuit km (Total)
1	132 KV	343
2	220 Kv	274
3	400 KV	176

Source : NEA

Planned and proposed high voltage transmission lines

Transmission Directorate		
S.N.	Transmission Line	Length Circuit km (Total)
1	400 KV	1717.2
2	220 Kv	1894
3	132 Kv	840
Source: NEA		
S.N.	Transmission Line	Length Circuit km (Total)
1	400 KV	1886
2	220 KV	16
3	132 KV	268
Source: NEA		

Comparison of Transmission Line Length in the last Fiscal Years

S.N.	FY	Circuit Km				Total	Total Increment (ckt. Km)
		66 KV	132 KV	220 KV	400 KV		
1	2072/073	494	2417			2911	
2	2073/074	494	2596	75	78	3243	332
3	2074/075	514	2717	75	78	3384	141
4	2075/076	514	3143	255	78	3990	606
5	2076/077	514	3240	437	78	4269	280
6	2077/078	514	3541	741	78	4874	605
7	2078/079	514	3817	897	102	5329	455
8	2079/080	514	3979	1101	148	5742	413
9	2080/081	514	4136	1213	644	6508	766
10	2081/082	514	4193	1266	787	6760	252
Total Increment in Ten Years							3850

Source: NEA

***Approx 247 km are additionally upgraded**

Comparison of substation Capacity in the last Ten fiscal Years

S.N.	FY	Total Capacity (MVA)	Total Increment (MVA)
1	2072/073	2223	
2	2073/074	2618	394
3	2074/075	3198	580
4	2075/076	3935	738
5	2076/077	4300	364
6	2077/078	6434	2134
7	2078/079	7149	715
8	2079/080	8867	1718
9	2080/081	13050	4183
10	2081/082	14123	1073
Total Increment in Ten Years			11899
Source: NEA			

Summary of under construction/planned & proposed Transmission Lines/Substations

Transmission Line					
S.N.	Description	Voltage Level	Transmission Directorate	Project Management Directorate	Total
1	Under Construction transmission line (Circuit Km)	132 KV	811	343	1154
		220 KV	160	274	434
		400 KV	270	176	446
Total (Circuit km)			1241	793	2034
2	Planned and Proposed Transmission Line (Circuit Km)]	132 KV	840	268	1108
		220 KV	1894	0	1894
		400 KV	1717	1886	3603
Total (Circuit km)			4451	2154	6605
Source : NEA					

Substation				
S.N.	Description	Transmission Directorate	Project Management Directorate	Total
1	Under construction (MVA)	2445.5	3893	6338.5
2	Planned and Proposed (MVA)	9267.5	6910	16177.5
Source: NEA				

Province Status

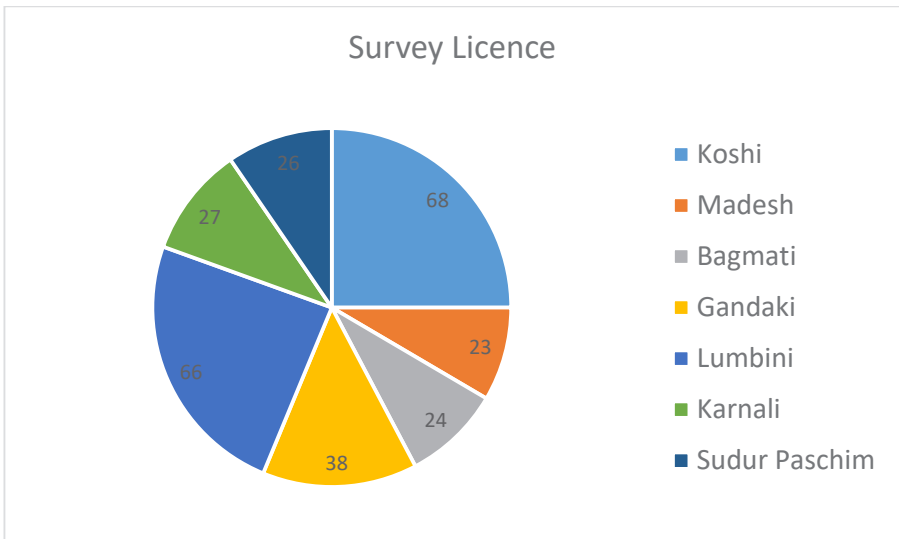
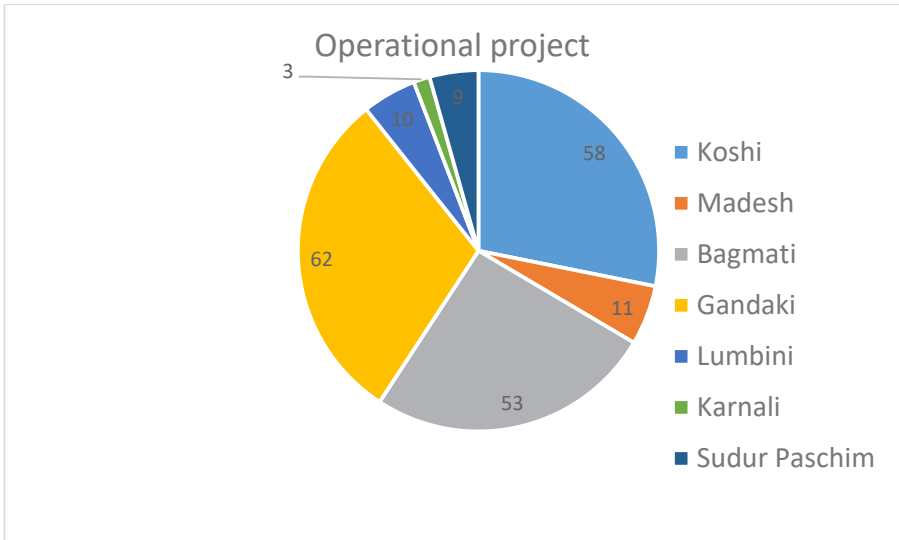
Province	Operation Project		Survey		Application for survey Licence		Construction Licence		Application for construction licence	
	No	Project	No	Project	No	Project	No	Project	No	Project
Koshi	58	751	68	2485.523	44	951	80	3059.85	24	3104.2
Madesh	11	41	23	276.5	1	10	3	18	1	4
Bagmati	53	1170.69	24	1999.89	29	1675	76	2090.74	7	458.01
Gandaki	62	746	38	1360.831	29	566	95	3305.36	17	1985.9
Lumbini	10	78.7	66	1718.025	12	179	15	189.711	2	190
Karnali	3	12.6	27	1314.193	40	1505	11	1442.06	15	3027.5
Sudur Paschim	9	135	26	2249.027	13	228	14	682.137	4	1919.3
Total	206	2935.69	272	11403.99	168	5113	294	10787.9	70	10689

Source: DOED

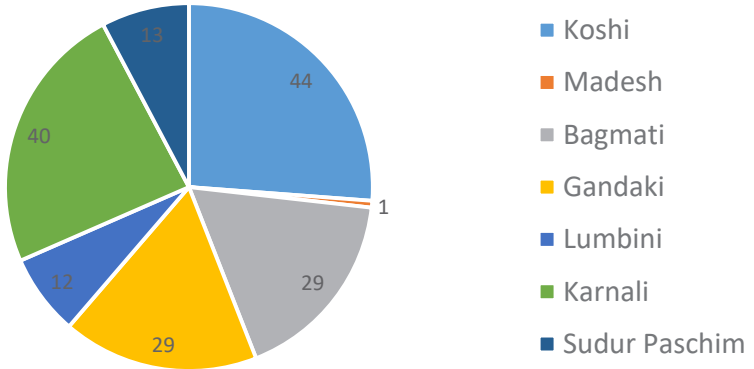
Province	Operation Project			
	Private		Government	
	No	Project	No	Project
Koshi	58	751	6	48.99
Madesh	11	41	0	0
Bagmati	53	1170.69	13	257.84
Gandaki	62	746	10	317.74
Lumbini	10	78.7	1	1.024
Karnali	3	12.6	1	0.4
Sudur Paschim	9	135	3	30.4
Total	206	293 5.69	34	656.394

Source: DOED

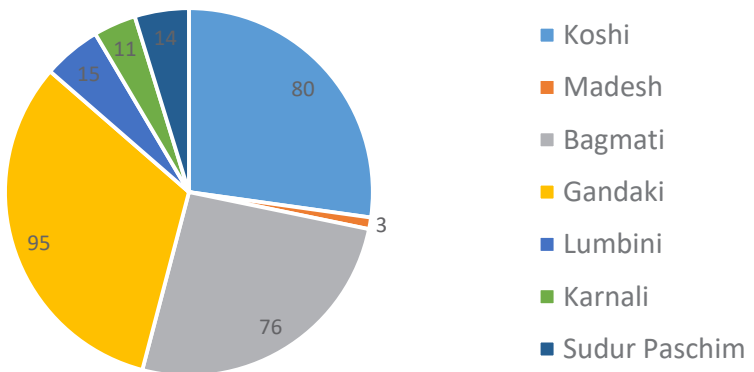
CHARTS ARE BASED ON CAPACITY



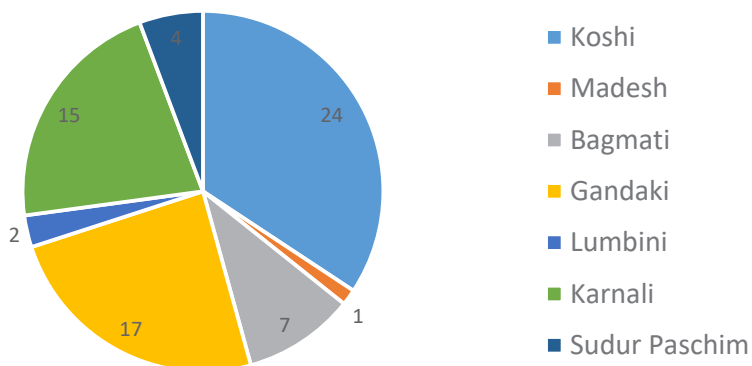
Application for Survey Licence



Construction Licence



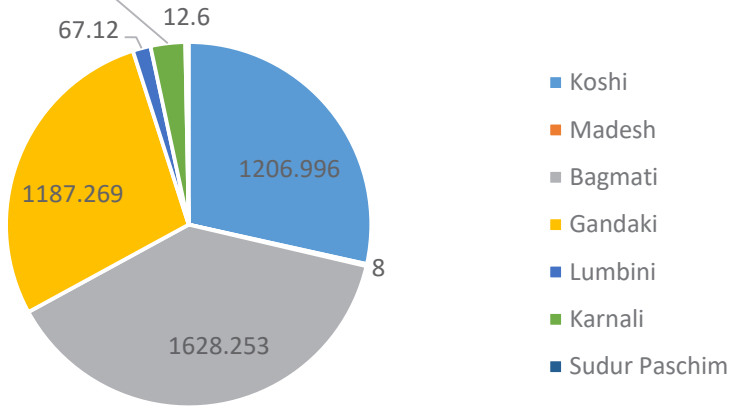
Application For Construction Licence



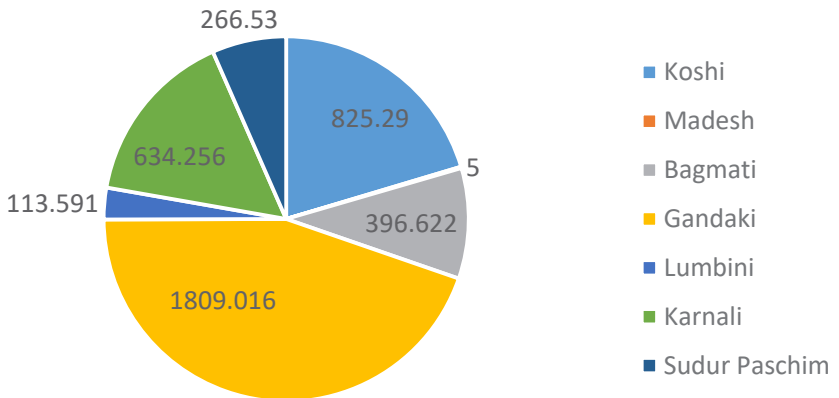
PPA				
Province	Under construction		Financial closer stage	
	Number	Capacity (MW)	Number	Capacity(MW)
Koshi	43	1253.91	36	819.01
Madesh	1	8	1	5
Bagmati	46	1578.253	30	381.62
Gandaki	39	1248.83	51	1858.01
Lumbini	6	47.32	13	239.58
Karnali	4	125.85	7	634.256
Sudur Paschim	3	40.9	9	261.23
	142	4303.063	147	4198.706

Source: NEA

Under Construction



Different Stages



1. Production Liscence

Private Sector

Koshi			
S.N.	District	Number	Capacity (MW)
1	Bhojpur	3	17.7
2	Dhankuta	1	0.04
3	Illam	16	118.2
4	Khotang	3	10.59
5	Okhaldhunga	1	7
6	Panchthar	4	47.95
7	Sankhuwasabha	10	61.86
8	Solukhumbu	5	150.8
9	Taplejung	8	128.94
10	Terathum	1	7.5
	Total	52	550.58

Madesh			
S.N.	District	Number	Capacity (MW)
1	Mahotari	1	3
2	Sarlahi	1	3
	Total	2	6

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Dhading	4	11.068
2	Dolakha	12	587.37
3	Kathmandu	1	0.25
4	Lalitpur	2	6.36
5	Nuwakot	3	10.016
6	Ramechhap	5	102.33
7	Rasuwa	7	287.7
8	Sindhupalchoak	17	143.41
	Total	51	1148.504

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	3	8.96
2	Gorkha	6	19.52
3	Lamjung	18	246.16
4	Kaski	14	178.54
5	Myagdi	7	189.6
6	Parbat	5	52.496
7	Syangja	1	9.4
	Total	54	704.676

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Gulmi	2	7.4
2	Palpa	1	0.75
3	Pyuthan	1	12
4	Rukum	1	5
	Total	5	25.15

Karnali			
S.N.	District	Number	Capacity (MW)
1	Dailekh	3	12.55
	Total	3	12.55

Sudur Paschim			
S.N.	District	Number	Capacity (MW)
1	Bajhang	4	65.48
2	Darchula	4	66.5
3	Doti	1	3.33
	Total	9	135.31

Hydropower Between Two Boarder			
S.N.	District Boarder	Number	Capacity (MW)
1	Lamjung and Kaski	1	8.8
2	Makawanpur/Lalitpur	1	22
3	Taplejung, Panchthar	1	25
4	Lamjung and Kaski	1	6.6
5	Solukhumbu/Ramechhap	1	29.04
6	Solukhumbu/Ramechhap	1	52.465
7	Gorkha Lamjung	1	9.05
8	Solukhumbu/Ramechhap	1	77
	Total	8	229.955

Solar

Koshi			
S.N.	District	Number	Capacity (MW)
1	Morang	1	6.8
2	Jhapa	1	10
	Total	2	16.8

Madesh			
S.N.	District	Number	Capacity (MW)
1	Dhanusha	3	14
2	Rautahat	1	4
3	Parsa	2	10
4	Bara	1	1
	Total	7	29

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Lalitpur	1	0.6809
	Total	1	0.6809

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Kaski	1	4
2	Tanahu	1	5
	Total	2	9

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Banke	2	20
2	Kapilvastu	2	25
3	Rupandehi	1	8.5
4	Nawalparasi	3	7.96
	Total	8	61.46

Cogeneration

Madesh			
S.N.	District	Number	Capacity (MW)
1	Dhanusha	1	3
2	Sarlahi	1	3
	Total	2	6

Government Sector

Koshi			
S.N.	District	Number	Capacity (MW)
1	Illam	1	6.2
2	Panchthar	1	0.24
3	Sankhuwasabha	1	0.25
4	Sunsari	1	3.2
5	Terhathum	1	0.1
	Total	5	9.99

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Makawanpur	3	106
2	Rasuwa	1	60
3	Nuwakot	2	39
4	Sindhupalchok	1	10.05
5	Kavrepalanchok	1	2.4
6	Kathmandu	2	1.47
7	Ramechhap	1	0.15
	Total	11	219.07

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	1	0.2
2	Kaski	2	2.5
3	Lamjung	1	70
4	Mustang	1	0.24
5	Myagdi	1	2
6	Nawalparasi	1	15
7	Parbat	1	14.8
8	Syangja	1	144
9	Tanahu	1	69
	Total	10	317.74

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Palpa	1	1.024
	Total	1	1.024

Karnali			
S.N.	District	Number	Capacity (MW)
1	Mugu	1	0.4
	Total	1	0.4

Sudurpaschim			
S.N.	District	Number	Capacity (MW)
1	Darchula	1	30
2	Baitadi	1	0.2
3	Doti	1	0.2
	Total	3	30.4

Government Sector

Solar

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Nuwakot	5	24.36
	Total	5	24.36

Thermal

Koshi			
S.N.	District	Number	Capacity (MW)
1	Morang	1	39
	Total	1	39

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Makawanpur	1	14.41
	Total	1	14.41

Construction Licence

Koshi

S.N.	District	Number	Capacity (MW)
1	Panchthar	1	5
2	Okhaldhunga	2	26
3	Tehrathum	2	10.3
4	Ilam	2	18.3
5	Khotang	4	18.4
6	Morang	2	2.79
7	Bhojpur	9	83.78
8	Solukhumbu	12	305.955
9	Sankhuwasabha	18	1383.701
10	Taplejung	22	1115.49
	Total	74	2969.716

Bagmati

S.N.	District	Number	Capacity (MW)
1	Ramechhap	3	71.02
2	Dhading	11	287.51
3	Lalitpur	1	6.5
4	Nuwakot	9	90.125
5	Rasuwa	10	522.41
6	Sidhupalchoak	20	525.73
7	Kavrepalanchoak	1	6
8	Dolakha	20	595.783
	Total	75	2105.078

Gandaki

S.N.	District	Number	Capacity (MW)
1	Baglung	5	15.63
2	Gorkha	16	987.88
3	Kaski	17	331.9
4	Lamjung	16	413.61
5	Manag	9	512.15
6	Myagdi	25	744.93
7	Tanahu	1	140
	Total	89	3146.1

Lumbini

S.N.	District	Number	Capacity (MW)
1	Gulmi	3	11.57
2	Nawalparasi	1	2
3	Palpa	1	3.44
4	Rolpa	1	0.996
	Total	6	18.006

Karnali

S.N.	District	Number	Capacity (MW)
1	Mugu	1	0.5
2	Dolpa	1	106
3	Jumla	1	0.214
4	Dailekh	2	6.35
5	Rukum	5	115.7
6	Kalikot	4	888
	Total	14	1116.764

Sudurpaschim

S.N.	District	Number	Capacity (MW)
1	Achham	1	1.55
2	Baitadi	1	1
3	Bajhang	8	547.28
4	Doti	1	1.55
5	Darchula	2	87
	Total	13	638.38

Details of Hydropowers lies between Multiple districts are

S.N.	District	Number	Capacity (MW)
1	Taplejung and Panchthar	1	37.6
2	Ramechhap and Dolakha	1	3
3	Ramechhap and Dolakha	1	48.8
4	Solukhumbu and Okhaldhunga	1	5
5	Solukhumbu and Okhaldhunga	1	6
6	Solukhumbu, Okhaldhunga and Ramechhap	1	30
7	Makawanpur, lalitpur and Kavrepalanchoak	1	41.86
8	Gulmi and Baglung	1	24.6
9	Kailali and Doti	1	17
10	Jajarkot and Dolpa	1	106
11	Tanahu and Nawalparasi	1	38.16
12	Lamjung and Gorkha	1	2
13	Darchula and Baitadi	1	28.304
14	Surkhet ,Accham and Kailali	1	439
	Total	14	827.324

Solar			
Koshi			
S.N.	District	Number	Capacity (MW)
1	Jhapa	1	5
2	Morang	1	8
3	Sunsari	1	8
	Total	3	21

Madesh			
S.N.	District	Number	Capacity (MW)
1	Dhanusha	2	15
2	Parsa	1	2.3
	Total	3	17.3

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Nawalparasi	1	5.8
2	Kapilvastu	3	29
	Total	4	34.8

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Lamjung	1	1.6
	Total	1	1.6

Karnali			
S.N.	District	Number	Capacity (MW)
1	Surkhet	1	2
	Total	1	2

Application for Construction Licence

Private Sector

Koshi			
S.N.	District	Number	Capacity (MW)
1	Bhojpur	1	15
2	Okhaldhunga	1	6
3	Taplejung	4	185.27
4	Sankhuwasabha	8	1781.9
5	Solukhumbu	6	446.33
	Total	20	2434.5

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Ramechhap	1	0.9
2	Dolakha	1	88
3	Rasuwa	2	334.6
4	Makawanpur	1	4.5
5	Sindhupalchok	3	30.91
	Total	8	458.91

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	1	8.8
2	Gorkha	3	145.95
3	Kaski	3	35.894
4	Lamjung	2	31.6
5	Manang	1	58.9
6	Myagdi	4	57.09
7	Tanahu	1	126
	Total	15	464.234

Karnali			
S.N.	District	Number	Capacity (MW)
1	Kalikot	2	503.9
2	Mugu	3	600.62
3	Jajarkot	2	424.1
4	Dolpa	1	325
5	Humla	3	543.37
	Total	11	2396.99

Sudurpaschim			
S.N.	District	Number	Capacity (MW)
1	Bajhang	2	73
2	Dadeldhura	1	2.5
3	Darchula	2	14.84
	Total	5	90.34

Hydropowers lies between Multiple districts are

S.N.	District Border	Number	Capacity(MW)
1	Lamjung and Mangan	1	600
3	Lamjung and Gorkha	1	4.2
4	Mugu and Humla	1	235
5	Rukum and Jajarkot	1	270
6	Mugu Bajura and Humla	1	1902
8	Solukhumbu and Okhaldhunga	1	8.6
9	Solukhumbu Khotang and okhaldhunga	1	70
10	Ramechhap and Okhaldhunga	1	6
11	Jajarkot and Dolpa	1	124.35
	Total	9	3220.15

Solar

Madesh			
S.N.	District	Number	Capacity (MW)
1	Siraha	1	4
	Total	1	4

Karnali			
S.N.	District	Number	Capacity (MW)
1	Surkhet	1	1.2
	Total	1	1.2

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Argakhachi	1	10
	Total	1	10

Government Sector

Hydropower

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	1	828
2	Kaski	1	150
	Total	2	978

Hydro powers lies between Multiple districts are

S.N.	District Border	Number	Capacity(MW)
1	Khotang, Solukhumbu and Okhaldhunga	2	600
2	Palpa and Syangja	1	180
	Total	3	780

Survey Liscence

Private Sector

Koshi			
S.N.	District	Number	Capacity (MW)
1	Bhojpur	5	35.46
2	Illam	1	38.14
3	Khotang	4	27.51
4	Okhaldhunga	4	65.63
5	Sankhuwasabha	13	309.21
6	Solukhumbu	9	144.91
7	Panchhthar	1	8
8	Taplejung	14	235.3
	Total	51	864.16

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Dhading	4	33.68
2	Dolakha	4	652.346
3	Lalitur	1	3.6
4	Nuwakot	1	30
5	Rasuwa	6	57.21
6	Sindhupalchoak	2	11.53
	Total	18	788.366

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	3	23.51
2	Kaski	1	46
3	Gorkha	9	357.8
4	Manang	4	122.36
5	Myagdi	5	34.628
6	Lamjung	1	8.74
7	Tanahu	3	447.7
	Total	26	1040.738

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Arghakhanchi	1	0.905
2	Pyuthan	2	10.1
3	Rolpa	7	51.6
4	Rukum	16	357.04
	Total	26	419.645

Karnali			
S.N.	District	Number	Capacity (MW)
1	Mugu	2	104.7
2	Jajarkot	3	32.3
3	Kalikot	3	117.4
4	Dolpa	1	3.5
5	Humla	7	509.225
6	Jumla	5	117.708
	Total	21	884.833

Sudurpaschim

S.N.	District	Number	Capacity (MW)
1	Baitadi	1	9.561
2	Bajhang	10	339.73
3	Bajura	3	73.28
4	Dadeldhura	1	2.5
5	Doti	1	3.5
6	Darchula	2	33.942
	Total	18	462.513

Hydropowers lies between Multiple districts are

S.N.	District Border	Number	Capacity(MW)
1	Baitadi and Bajhang	1	750
2	Gorkha and Dhading	1	4.95
3	Gulmi	1	16.69
4	Makawanpur and Lalitpur	1	20.5
5	Makawanpur and Kathmandu	1	19.25
6	Rukum and Jajarkot	1	78
7	Sankhuwasabha and Bhojpur	1	679
8	Solukhumbu and Ramechhap	1	7.7
9	Surkhet Achham and Dailekh	1	900
10	Tanahu and Kaski	1	0.8
11	Tanahu and Kaski	1	9.8
12	Tanahu and Chitwan	1	117.72
13	Taplejung and Panchthar	1	15
	Total	13	2619.41

Solar

Koshi			
S.N.	District	Number	Capacity (MW)
1	Morang	1	8
2	Jhapa	4	120
3	Sankhuwasabha	1	10
4	Solukhumbu	1	10
5	Sunsari	2	45
6	Udayapur	1	10
	Total	10	203

Madesh			
S.N.	District	Number	Capacity (MW)
1	Dhanusha	4	54.5
2	Lahan	1	10
3	Mahotari	5	59.5
4	Parsa	4	79.5
5	Rautahat	4	24.5
6	Sarlahi	4	40
7	Siraha	1	10
	Total	23	278

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Ramechhap	1	5
2	Sindhupalchaok	1	9.9
	Total	2	14.9

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	3	40
2	Gorkha	1	20
3	Kaski	3	23.5
4	Palpa	3	85
4	Parbat	3	40
	Total	13	208.5

Lumbini			
S.N.	District	Number	Capacity (MW)
	Argakhanchi	2	170
1	Banke	2	18
2	Bardiya	5	110
3	Dang	5	100
	Gulmi	2	20.99
4	Kapilvastu	8	335
5	Nawalparasi	5	75
6	Pyuthan	1	10
7	Rolpa	3	160
8	Rupandehi	2	50
	Total	35	1048.99

Karnali			
S.N.	District	Number	Capacity (MW)
1	Dailekh	1	15
2	Jajarkot	1	10
	Total	2	25

Sudurpaschim			
S.N.	District	Number	Capacity (MW)
1	kailali	5	95
	Kanchhanpur	2	24
	Total	7	119

Wind

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Mustang	2	5
	Total	1	3

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Banke	2	20
	Total	2	20

Government Sector			
Hydropower			
Koshi			
S.N.	District	Number	Capacity (MW)
1	Sankhuwasabha	1	490.2
	Total	1	490.2

Karnali			
S.N.	District	Number	Capacity (MW)
1	Rukum West	1	334
2	Kalikot	1	70.37
	Total	2	404.37

Hydropowers lies between Multiple districts are :			
S.N.	District Border	Number	Capacity(MW)
1	Kavrepalanchoak and Sindhupalchoak	1	683
2	Dhading and Chitwan	1	494.5
3	Panchthar and Taplejung	1	200
	Total	3	1377.5

Application for survey			
Hydropower			
Koshi			
S.N.	District	Number	Capacity (MW)
1	Khotang	3	12.835
2	Okhaldhunga	1	5
3	Panchthar	3	16.043
4	Sankhuwasabha	15	85.45
5	Solukhumbu	9	366
6	Taplejung	10	390.6
	Total	41	875.928
Bagmati			
S.N.	District	Number	Capacity (MW)
1	Dhading	4	102.63
2	Dolakha	4	45.84
3	Kathmandu	1	4.99
4	Nuwakot	2	6.3
5	Ramechhap	3	17.7
6	Sindhuli	2	29.8
7	Sindhupalchaok	7	47.06
	Total	23	254.32
Gandaki			
S.N.	District	Number	Capacity (MW)
1	Gorkha	7	254.6
2	Kaski	6	46.8
3	Lamjung	2	52.9
4	Manang	2	15.5
5	Myagdi	8	98.95
6	Rukum	9	192.07
	Total	34	660.82

Lumbini			
S.N.	District	Number	Capacity (MW)
1	Gulmi	1	3.2
2	Rolpa	1	3.13
	Total	2	6.33

Karnali			
S.N.	District	Number	Capacity (MW)
1	Dailekh	1	2.8
2	Dolpa	9	378.12
3	Humla	11	299.15
4	Jumla	2	14.1
5	Jajarkot	2	17
6	Kalikot	5	37.37
7	Mugu	3	371.45
	Total	33	1119.99

Sudurpaschim			
S.N.	District	Number	Capacity (MW)
1	Bajhang	4	26.94
2	Bajura	5	58.96
3	Darchula	3	37.98
	Total	12	123.88

Government Sector			
Bagmati			
S.N.	District	Number	Capacity (MW)
1	Makawanpur	1	100
	Total	1	100

Hydropowers lies between Multiple districts are :			
S.N.	District Border	Number	Capacity(MW)
1	Dhading and Gorkha	2	1275
2	Kalikot and Bajura	1	92
3	Rukum and Baglung	1	75
4	Ramechhap and Dolakha	1	4.9
5	Parbat and Myagdi	1	10
6	Surkhet jajarkot and Rukum	1	278.92
7	Sankhuwasabha and Bhojpur	1	37.3
8	Makawanpur and Lalitpur	1	8.8
9	Mugu and Humla	1	4.96
10	Gorkha and Dhading	1	4.74
11	Achham and Bajura	1	14.44
12	Dolpa and Jajarkot	1	65
13	Chitwan and Gorkha	1	102
14	Dolakha and Ramechhap	1	21.55
15	Achham and Surkhet	1	220
	Total	16	2214.61

Solar			
Koshi			
S.N.	District	Number	Capacity (MW)
1	Jhapa	1	1
2	Morang	1	10
3	Sunsari	1	10
	Total	3	21
Lumbini			
S.N.	District	Number	Capacity (MW)
1	Dang	1	1
	Total	1	1

Under Construction

Koshi			
S.N.	District	Number	Capacity (MW)
1	Bhojpur	3	31.6
2	Dhankuta	1	0.996
3	Ilam	1	10
4	Khotang	2	10.5
5	Morang	1	0.99
6	Okhaldhunga	1	21
7	Sankhuwasabha	10	311.08
8	Solukhumbu	7	168.79
9	Sunsari	1	8
10	Taplejung	12	638.05
11	Terhathum	2	10.3
	Total	41	1211.306

Madesh			
S.N.	District	Number	Capacity (MW)
1	Parsa	1	8
	Total	1	8

Bagmati			
S.N.	District	Number	Capacity (MW)
1	Dhading	5	126.17
2	Dolakha	11	470.34
3	Kavrepalan- chok	1	6
4	Lalitpur	1	41.314
5	Nuwakot	5	42.125
6	Ramechhap	2	66.02
7	Rasuwa	7	420.41
8	Sindhupalchok	11	348.073
	Total	43	1520.452

Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	4	16.3
2	Gorkha	5	49.12
3	Kaski	6	169.2
4	Lamjung	6	168.31
5	Manang	3	249.55
6	Mustang	1	2.2
7	Myagdi	10	340.865
8	Parbat	1	3.7
9	Tanahun	1	140
	Total	37	1139.245

Lumbni			
S.N.	District	Number	Capacity (MW)
1	Arghakhanchi	2	10.905
2	Dang	1	3
3	Gulmi	1	1.75
4	Kapilvastu	1	30
5	Palpa	1	1.665
	Total	6	47.32

Karnali			
S.N.	District	Number	Capacity (MW)
1	Dailekh	2	6.35
2	Dolpa	1	106
3	Kalikot	1	13.5
	Total	4	125.85
Sudur Paschim			
S.N.	District	Number	Capacity (MW)
1	Bajhang	1	11.05
2	Darchula	1	28.3
3	Doti	1	1.55
	Total	3	40.9

Hydropower between two boarder			
S.N.	District	Number	Capacity (MW)
1	Panchthar and Taplejung	1	37.6
2	Dolakha and Ramechhap	1	48.8
3	Kavrepalanchowk, Ramechhap, Sindhupalchowk, Dolakha	1	6
4	Ramechhap and Dolakha	1	3
5	Baglung and Gulmi	1	9.6
6	Okhaldhunga and Solukhumbu	1	5
7	Gorkha and Chitwan	1	100
	Total	7	210

Financial Closer Stage

Koshi			
S.N.	District	Number	Capacity (MW)
1	Bhojpur	7	47.689
2	Dhankuta	1	0.64
3	Ilam	1	8.3
4	Jhapa	1	5
5	Khotang	2	7.6
6	Panchthar	1	9.4
7	Sankhuwasabha	14	296.479
8	Solukhumbu	4	100.052
9	Taplejung	3	311.85
10	Terhathum	1	2
	Total	35	789.01
Madesh			
S.N.	District	Number	Capacity (MW)
1	Dhanusha	1	5
	Total	1	5
Bagmati			
S.N.	District	Number	Capacity (MW)
1	Dhading	4	36.22
2	Dolakha	7	83.365
3	Lalitpur	1	6.5
4	Makwanpur	1	4.444
5	Nuwakot	2	7.8
6	Ramechhap	1	0.9

7	Rasuwa	2	30.6
8	Sindhupalchok	11	202.793
	Total	29	372.622
Gandaki			
S.N.	District	Number	Capacity (MW)
1	Baglung	1	6.05
2	Gorkha	10	766.011
3	Kaski	10	182.512
4	Lamjung	6	115.7
5	Manang	5	233.942
6	Myagdi	11	380.25
7	Nawalparasi	3	32
8	Parbat	1	10.5
9	Tanahun	1	38.16
	Total	48	1765.125
Lumbini			
S.N.	District	Number	Capacity (MW)
1	Banke	1	30
2	Bardiya	1	25
3	Dang	1	10
4	Gulmi	2	1.115
5	Kapilvastu	3	28
6	Rolpa	1	50
7	Rukum	4	95.444
	Total	13	239.559

Karnali			
S.N.	District	Number	Capacity (MW)
1	Kalikot	3	607.49
2	Karnali	1	4.75
3	Rukum	1	20.731
4	Surkhet	1	1.2
	Total	6	634.171
Sudur Paschim			
S.N.	District	Number	Capacity (MW)
1	Baitadi	1	1
2	Bajhang	4	225.233
3	Darchula	2	3
4	Kanchanpur	1	15
	Total	8	244.233
Hydropower between two boarder			
S.N.	District Boarder	Number	Capacity (MW)
1	Ramechhap and Okhaldhunga	1	30
2	Kaski and Tanahu	1	0.891
3	Lamjung and Gorkha	1	2
4	Doti and Kailali	1	17
5	Dolakha and Ramechhap	1	9
6	Tanahu and Gorkha	1	90
7	Musikot, Rukum West	1	0.085
	Total	7	148.976

Disclaimer

This book has been prepared using information sourced from publicly available data on the official websites of the Ministry of Energy, Water Resources and Irrigation (Energy Development Road Map, 2081), the Department of Electricity Development (DoED) and Nepal Electricity Authority (NEA), as well as their published materials. Some additional data has been obtained through independent research conducted by the IPPAN. While every effort has been made to ensure the accuracy and reliability of the information presented, IPPAN does not claim responsibility for any inadvertent errors, omissions, or updates that may have occurred since the time of writing



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