



# ESN

ENERGY STATISTICS OF NEPAL 2024



# AKNOWLEDGMENT

We are pleased to announce the first publication of Nepal's Energy Statistics (NES), which brings together data on the energy sector. This publication is funded by the Research and Development Fund of IPPAN and will be released semi-annually. The data included in this ESN covers areas such as hydropower and solar energy, and is based on both primary and secondary sources. We would like to thank IPPAN President Mr. Ganesh Karki, General Secretary Balarm Khatiwada and all executive committee for their support.

We also want to express our gratitude to IPPAN's Chief Executive Officer Bhim Gautam for planning and content arrangement, Engineer Gaurab Gaire for data collection, and Bishwa Sapkota for the design of this publication.

## Background

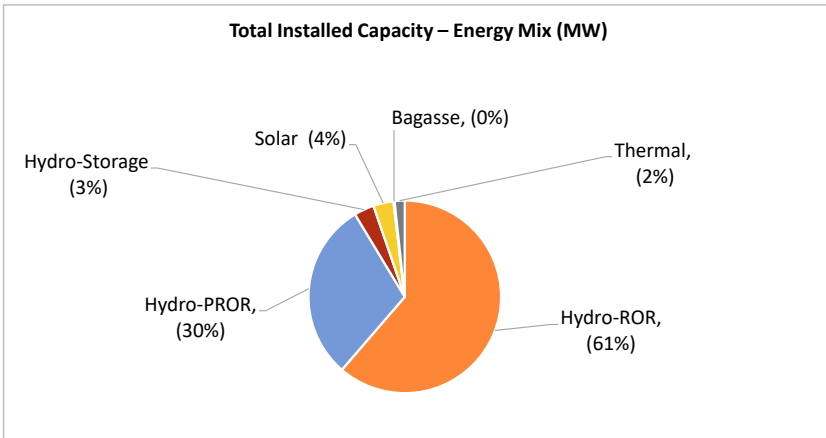
Nepal currently lacks integrated energy statistics, and there is no data on the Private sector's involvement in energy development and expansion. As a result, policymakers, politicians, experts, and the public are unaware of the Private sector's contribution to the energy sector. To address this, IPPAN, a common organization of Private energy producers with 500 member companies established 25 years ago, is publishing this ESN.

This data will assist in policy-making in the energy sector and help stakeholders analyze information based on this dataset.

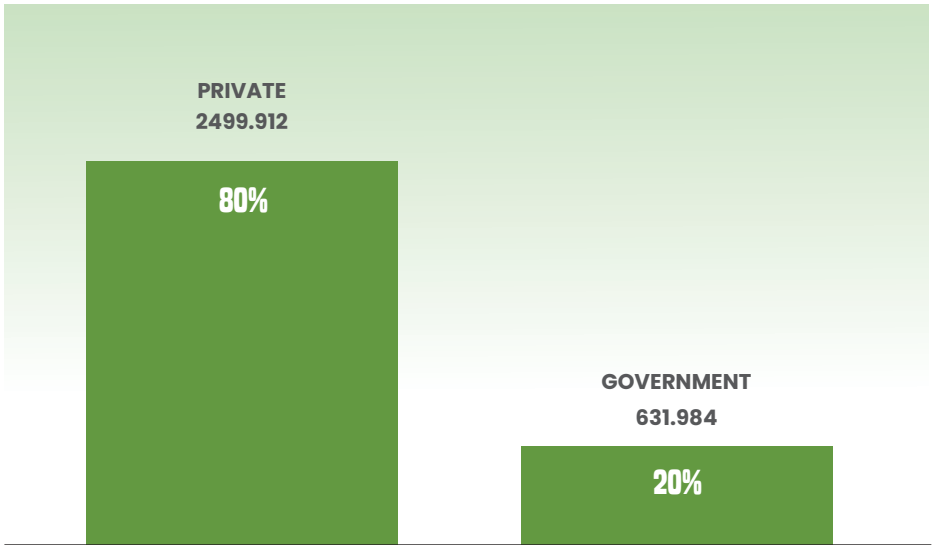
# ENERGY STATUS

## I. PRODUCTION

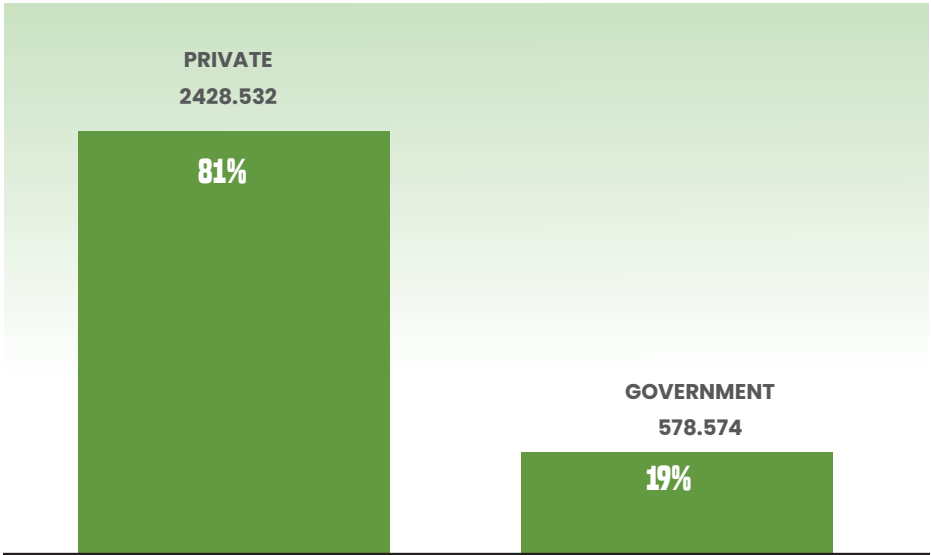
S.N	Project Type	Private		Government	
		No.	Capacity(MW)	No.	Capacity(MW)
1	Hydropower	157	2428.532	20	578.574
2	Solar	13	68.38		
3	Thermal			2	53.41
4	Cogeneration	1	3		
	Total	171	2499.912	22	631.984



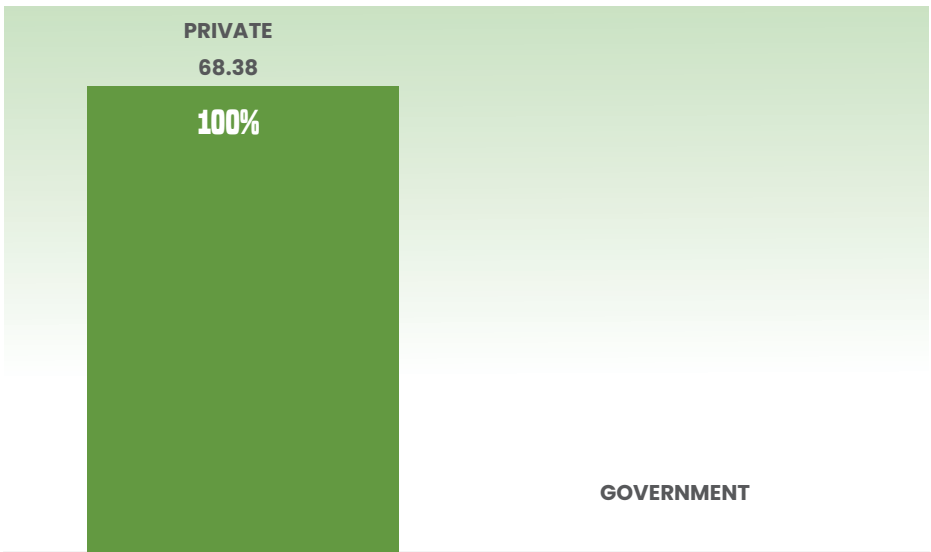
## OPERATIONAL PROJECT-MIX



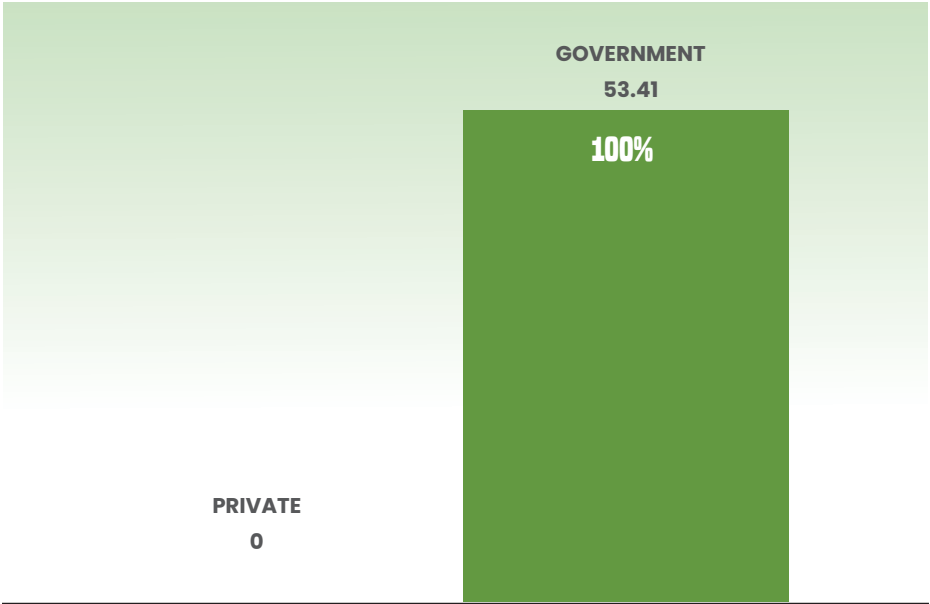
## HYDROPOWER



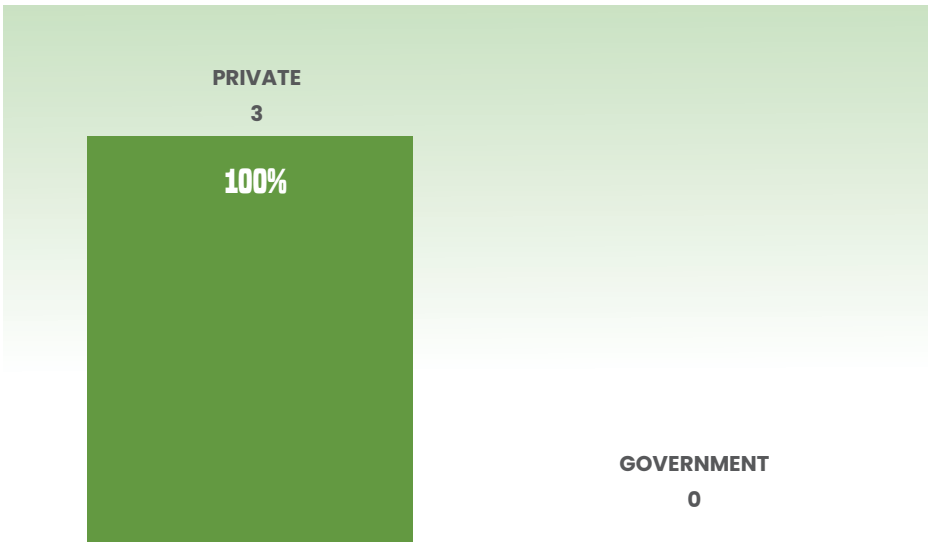
## SOLAR



# THERMAL



# COGENERATION

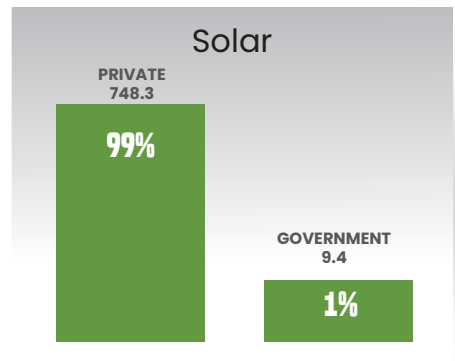
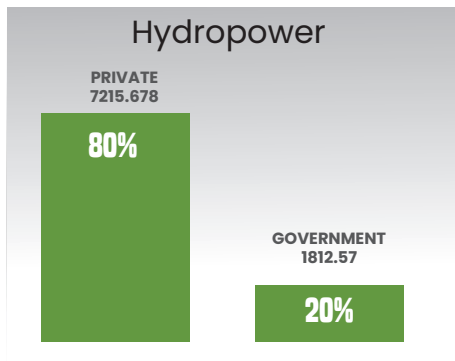
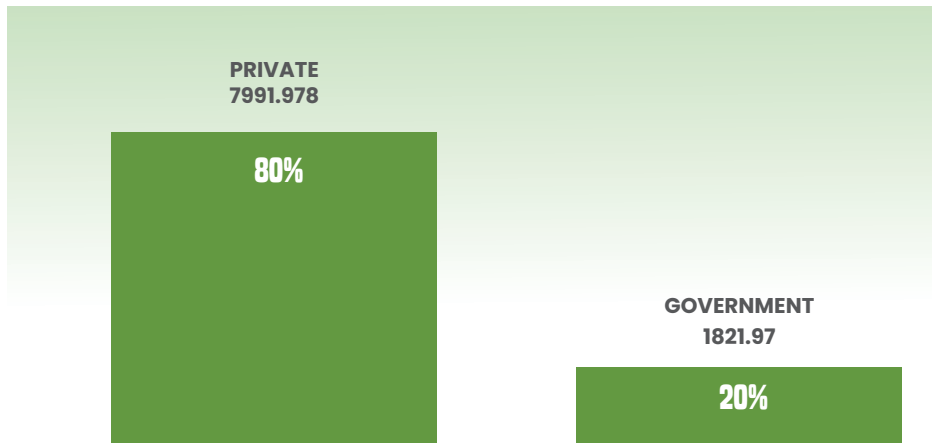


## 2. SURVEY LICENSE

Mix

S.N	Project Type	Private		Government	
		No.	Capacity(MW)	No.	Capacity(MW)
1	Hydropower	91	7215.678	6	1812.57
2	Solar	39	748.3	3	9.4
3	Wind	2	13		
4	Cogeneration	1	15		
	Total	133	7991.978	9	1821.97

### CHART BASED ON CAPACITY

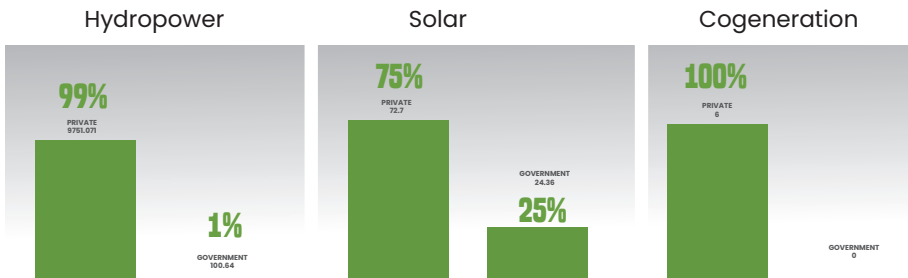
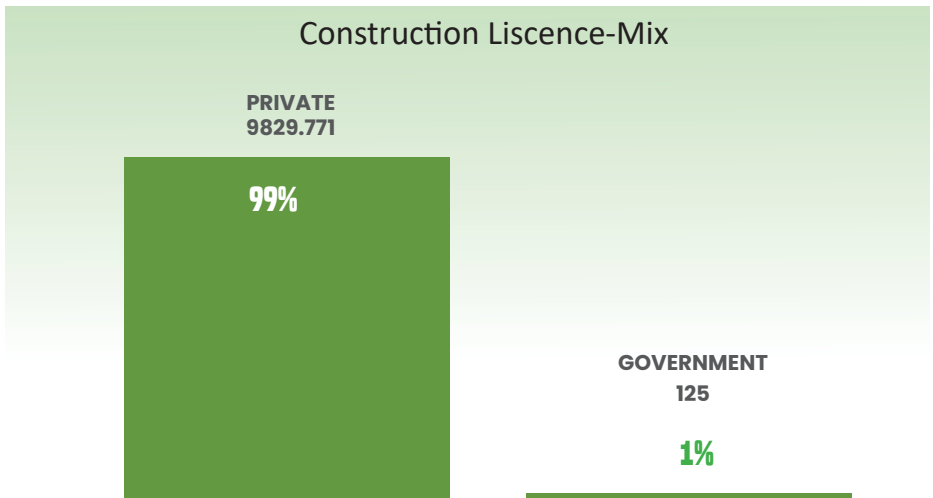




## 4. CONSTRUCTION LICENSE

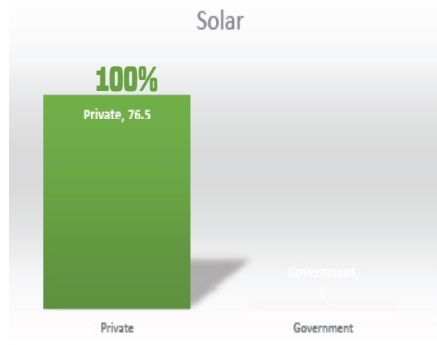
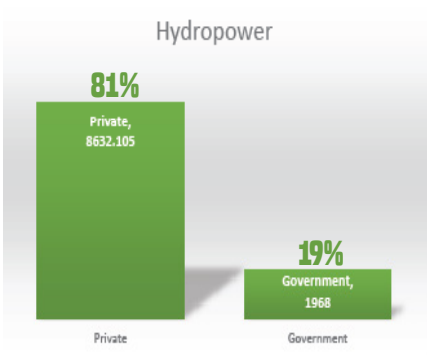
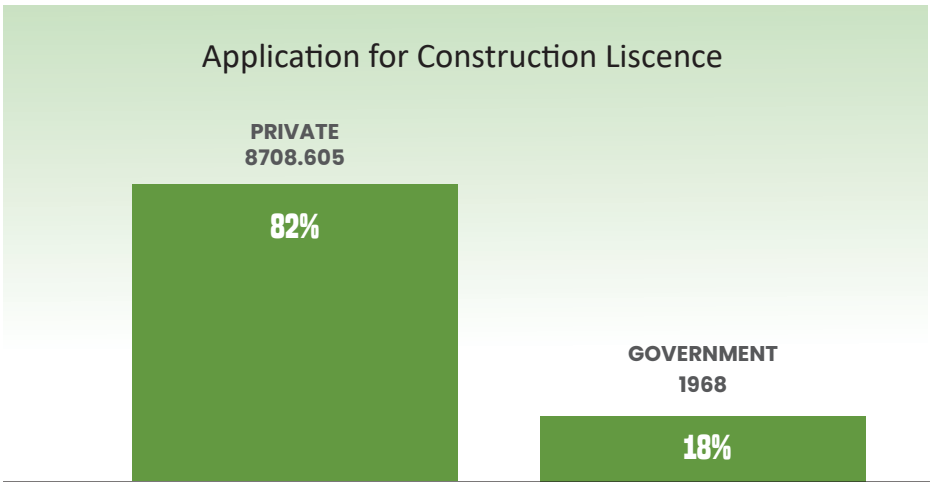
S.N	Project Type	Private		Government	
		No.	Capacity(MW)	No.	Capacity(MW)
1	Hydropower	268	9,751.071	4	100.64
2	Solar	9	72.7	5	24.36
4	Cogeneration	2	6		
	Total	279	9,829.771	9	125

Chart Based on Capacity



## 5. APPLICATION CONSTRUCTION

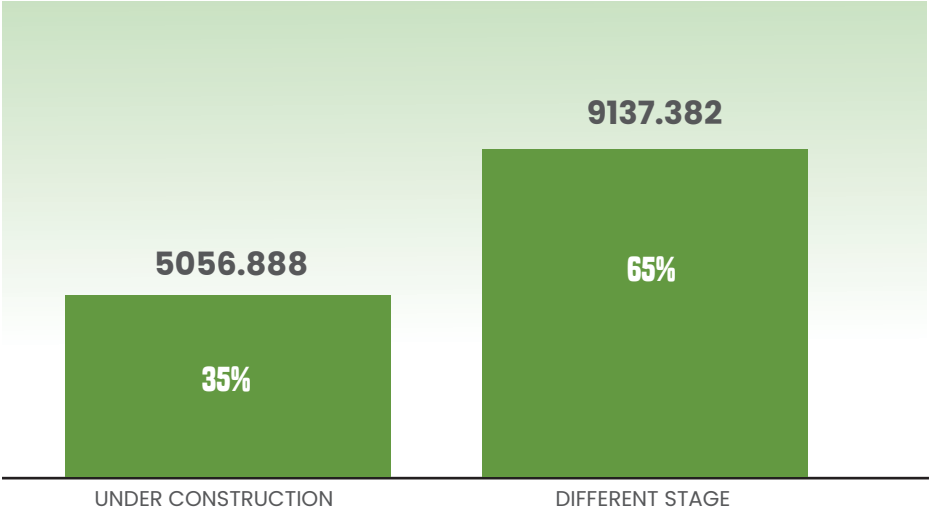
S.N	Project Type	Private		Government	
		No.	Capacity(MW)	No.	Capacity(MW)
1	Hydropower	86	8,632.105	5	1968
2	Solar	11	76.5		
	Total	97	8,708.605	5	1968



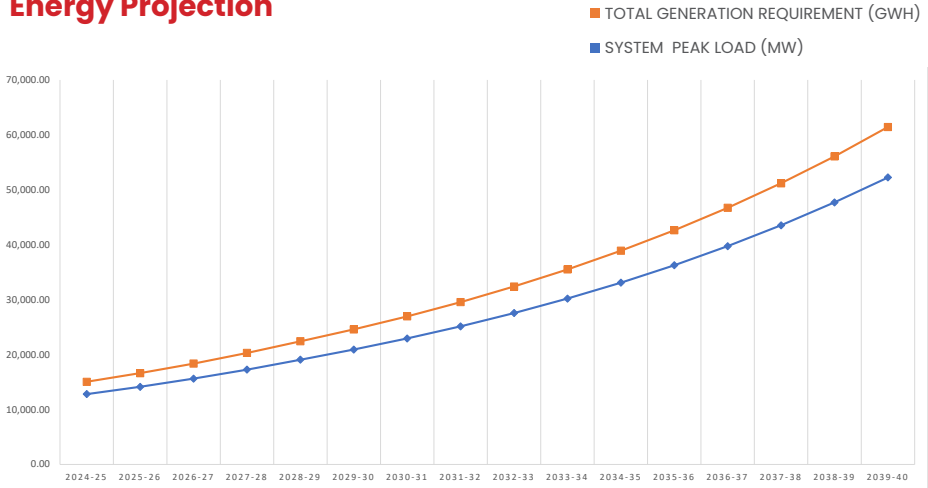
# 6. PPA

## Mix

Project Type	Under Construction		Different Stage	
	Number	Capacity(MW)	Number	Capacity(MW)
Hydropower	133	3854.024	128	3827.932
Solar	4	51.7	8	71.5
Total	137	3905.724	136	3899.432

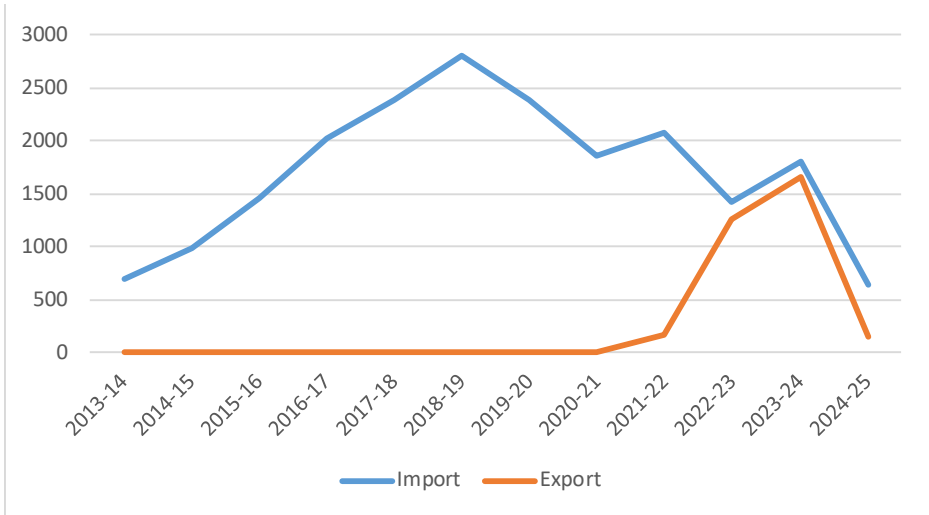


# Energy Projection



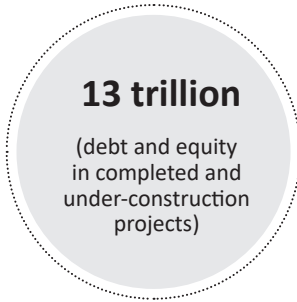
Fiscal Years	Total Generation Requirement (GWh)	System Peak Load (MW)
2024-25	12,802.2	2,248.4
2025-26	14,132.7	2,482.0
2026-27	15,625.2	2,744.2
2027-28	17,265.4	3,032.2
2028-29	19,070.5	3,349.2
2029-30	20,914.1	3,673.0
2030-31	22,931.6	4,027.3
2031-32	25,139.6	4,415.1
2032-33	27,556.4	4,839.5
2033-34	30,201.7	5,304.1
2034-35	33,097.5	5,812.7
2035-36	36,267.6	6,369.5
2036-37	39,738.4	6,979.0
2037-38	43,538.5	7,646.4
2038-39	47,699.4	8,377.1
2039-40	52,255.8	9,177.4

## Import and Export with India (MU)



Period	Import	Export
2013-14	702	0
2014-15	997.2	0
2015-16	1469.6	0
2016-17	2021.2	0
2017-18	2389	0
2018-19	2798.8	0
2019-20	2379.9	2.7
2020-21	1865.5	0.5
2021-22	2084	163.5
2022-23	1420.9	1262.5
2023-24	1810	1655.9
2024-25	638.42	156.24

## 1. Total Private sector investment



## 2. Contribution of energy in the form of royalties, dues and others

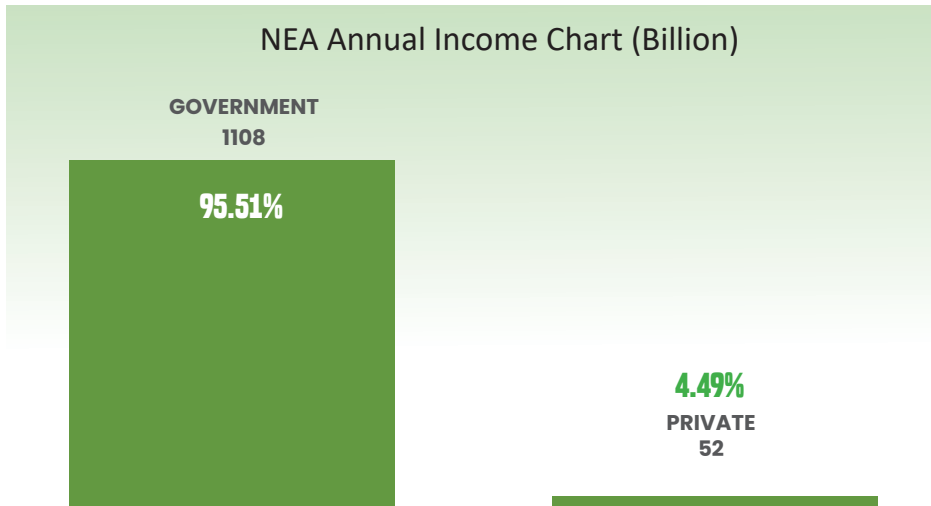
6.283 billion (2022/023)

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

Private- 52 billion

NEA = 64 billion

Total- 116 billion



#### **4. Annual direct employment from Private sector**

Total: 235.9 thousand

In completed projects: 1.900 thousand (permanent)

In under-construction projects: 234 thousand (Temporary)

#### **5. Contribution of Private sector in social development**

Roads: 3300 km

Tunnel Road : 350 km

Tunnel : 1100 Km

Health center: 140

School: 153

Belly Bridge: 200

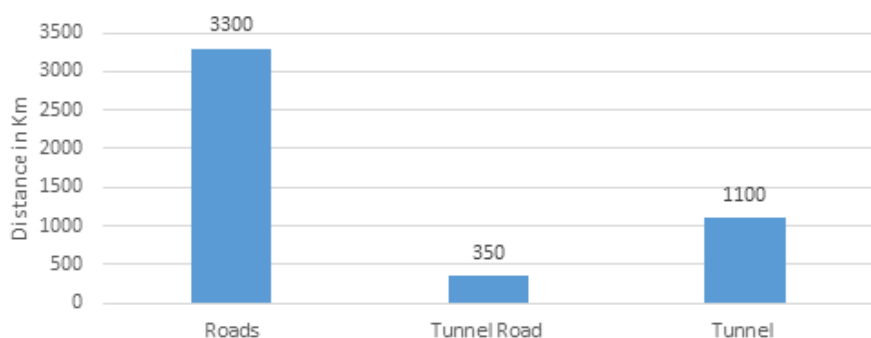
Water supply project: 95

Irrigation project: 45

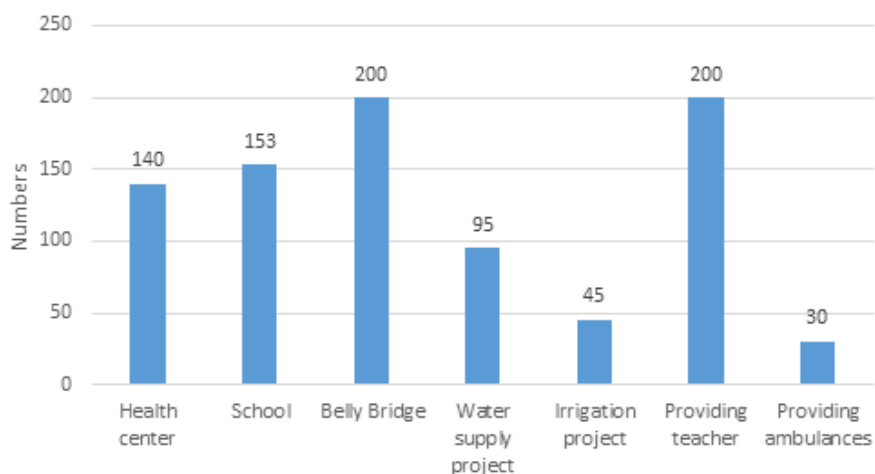
Providing teacher: 200

Providing ambulances: 30

## contribution By Private Sector on Road and Tunnels

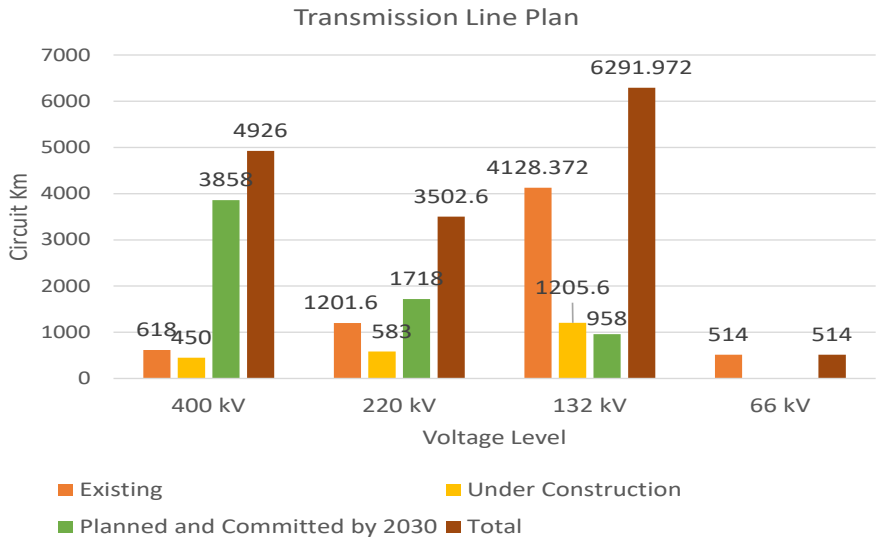


## contribution By Private Sector



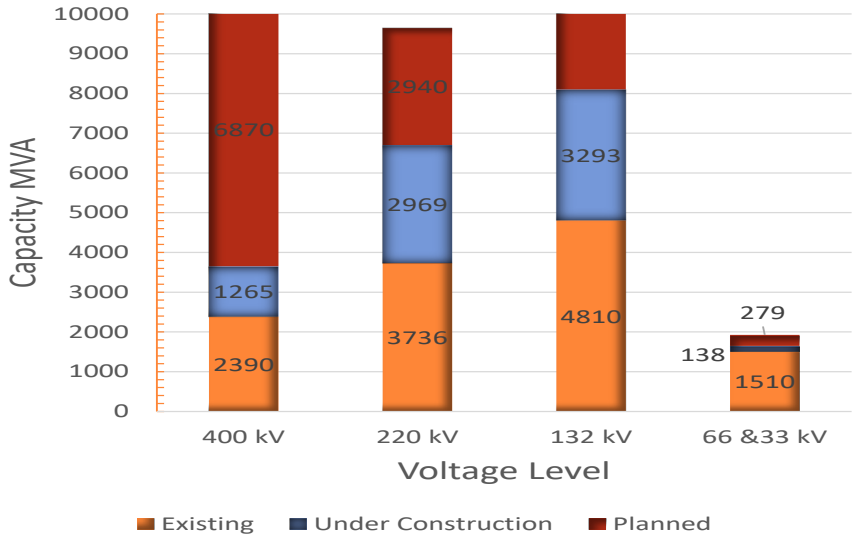


# TRANSMISSION INFRASTRUCTURE EXPANSION PLAN



S.N.	Description	Voltage Level (kV)				Total (Ckt. km)
		400	220	132	66	
1	Existing	618	1202	4128	514	6462
2	Under Construction	450	583	1206		2239
3	Planned and Committed by 2030	3858	1718	958		6534
<b>Total</b>		4926	3503	6292	514	15235

# SUBSTATION INFRASTRUCTURE EXPANSION PLAN



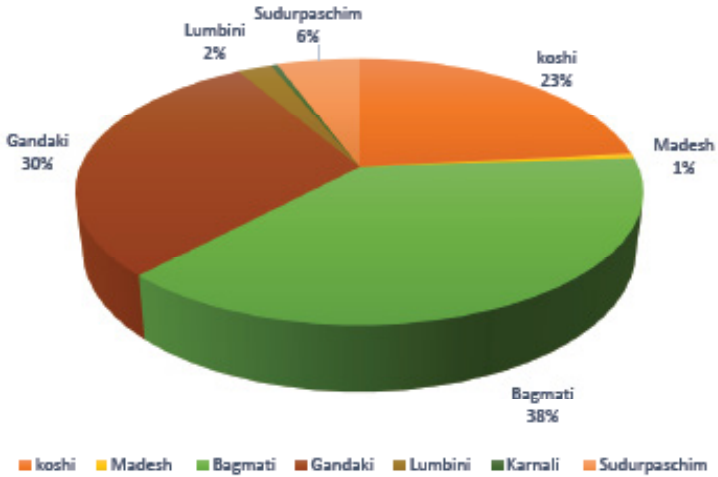
S.N.	Description	Voltage Level (kV)				Total (MVA)
		400	220	132	66 & 33	
1	Existing	2390	3736	4810	1510	12446
2	Under Construction	1265	2969	3293	138	7665
3	Planned and Committed by 2030	6870	2940	5476	279	15565
<b>Total</b>		<b>10525</b>	<b>9645</b>	<b>13578</b>	<b>1927</b>	<b>35675</b>

## 12. PROVINCE STATUS

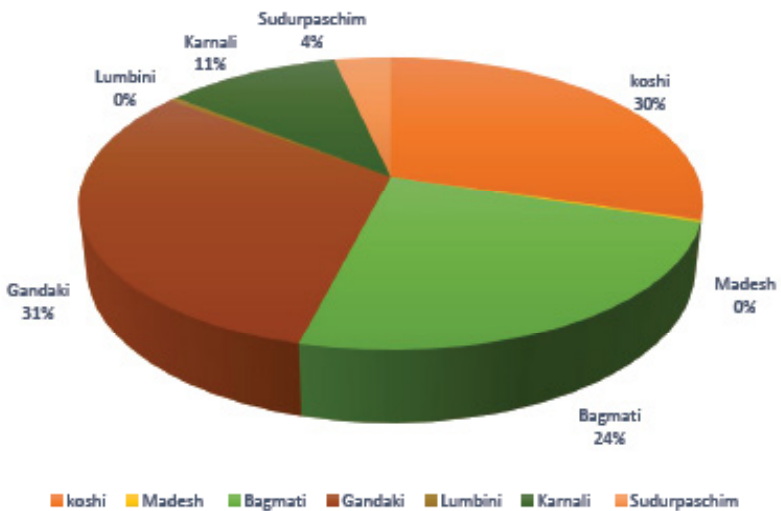
province	Operation project		app. Survey		Survey		app. Construction		construction Liscence		Total	
	No.	Capacity(MW)	No.	Capacity(MW)	No.	Capacity(MW)	No.	Capacity(MW)	No.	Capacity(MW)	No.	Capacity(MW)
koshi	51	730.247	29	400.107	37	3249.038	36	2284.421	78	2954.004	231	9617.817
Madesh	4	18	4	46	7	58	3	7.3	5	26.7	24	170.41
Bagmati	56	1193	21	232.908	16	1427.65	11	506.97	81	2392.1	184	5738.245
Gandaki	56	927.482	23	1500.672	18	923.24	26	2319.334	91	3111.6	214	8782.328
Lumbini	12	73.224	14	320.618	21	598.705	5	94.59	10	47.516	62	1134.653
Karnali	3	13.55	30	978.058	23	2341.733	15	5133.99	13	1071.6	84	9538.931
Sudurpaschim	11	176.366	11	54.684	20	1215.582	6	330	10	351.33	58	2127.962
Total	193	3131.896	132	3533.047	142	9813.948	102	10676.61	288	9954.85	857	37110.35

# CHARTS ARE BASED ON CAPACITY

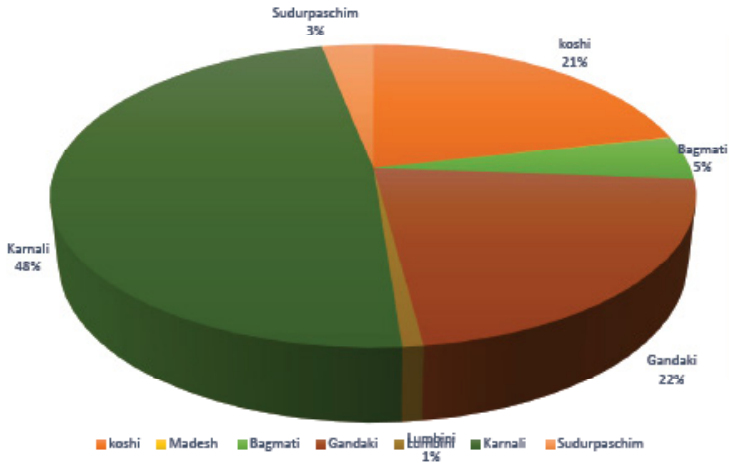
## PRODUCTION LICENSE



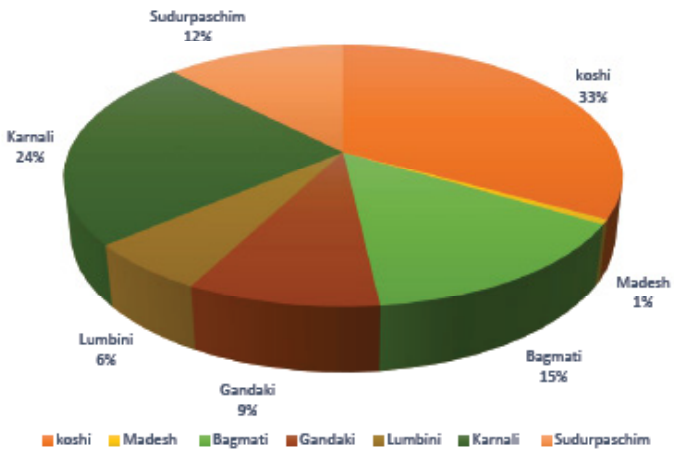
## CONSTRUCTION LICENSE



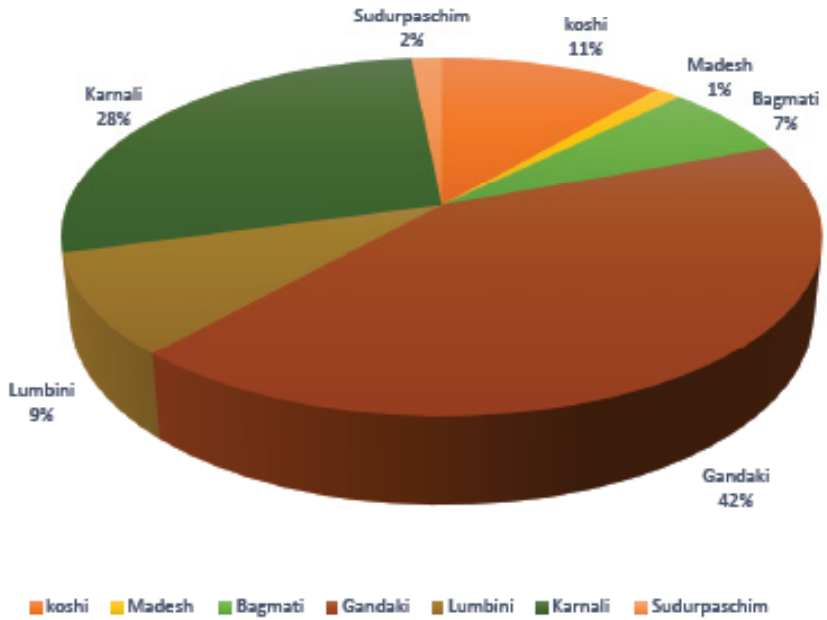
## APPLY CONSTRUCTION LICENSE



## SURVEY LICENSE

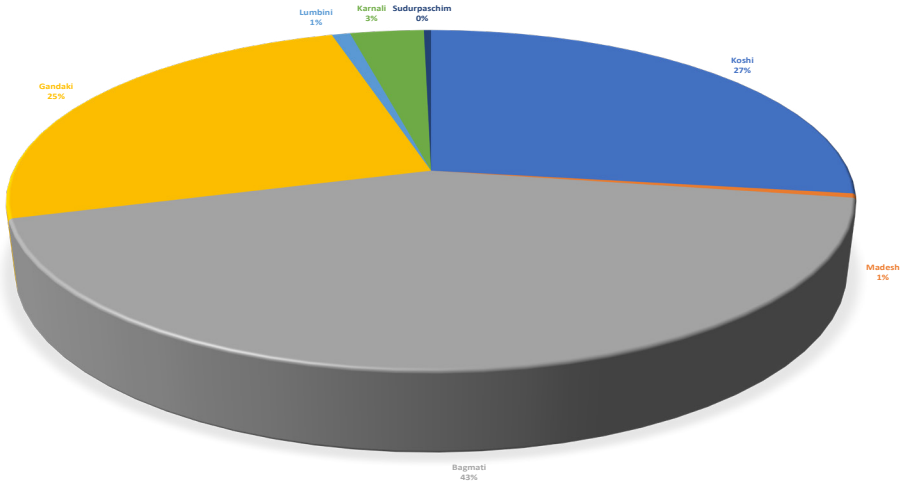


## APPLICATION FOR SURVEY LICENSE

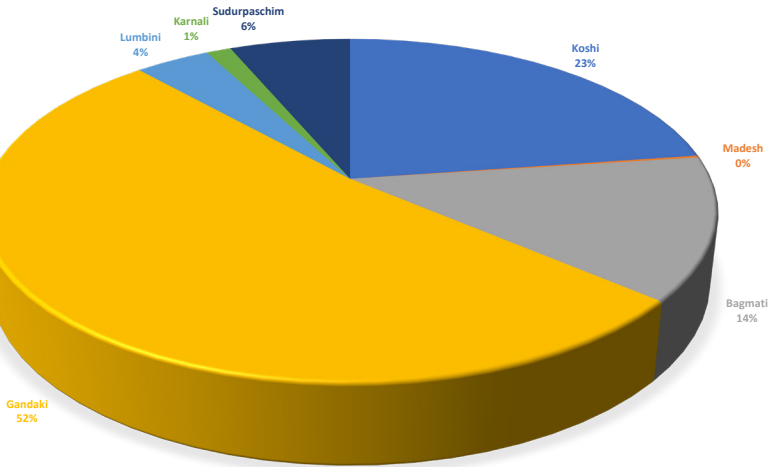


province	Under Construction		Different Stage	
	Number	Capacity(MW)	Number	Capacity(MW)
Koshi	40	1060.567	32	885.089
Madesh	2	15.7	2	7.3
Bagmati	44	1678.293	33	522.715
Gandaki	38	976.394	51	2032.404
Lumbini	6	32.32	8	153.456
Karnali	5	129.85	4	50.931
Sudurpaschim	2	12.6	6	247.537
Total	137	3905.724	136	3899.432

UNDER CONSTRUCTION



DIFFERENT STAGE





## District wise

1. Production license

### PRIVATE SECTOR

#### Koshi

S.N	District	Numbers	Capacity(MW)
1	Okhaldhunga	1	7
2	Taplejung	1	73
3	Tehrathum	1	7.5
4	Bhojpur	2	13
5	Khotang	3	11.147
6	Panchthar	3	37.995
7	Solukhumbu	4	53.43
8	Sankhuwasabha	8	50.165
9	Ilam	15	115.27
	Total	38	368.507

#### Gandaki

S.N	District	Numbers	Capacity(MW)
1	Mustang	1	11.2
2	Baglung	2	4
3	Syangja	2	9.583
4	Myagdi	3	61
5	Parbat	3	30.996
6	Gorkha	4	16.543
7	Kaski	11	123.08
8	Lamjung	14	230.3
	Total	40	486.702

## Karnali

S.N	District	Numbers	Capacity(MW)
1	Dailekh	2	8.55
2	Surkhet		
	Total	2	8.55

## Bagmati

S.N	District	Numbers	Capacity(MW)
1	Kathmandu	1	0.99
2	Kavrepalanchok	1	0.232
3	Ramechhap	1	2.83
4	Lalitpur	2	6.36
5	Nuwakot	2	9.993
6	Dhading	3	9.168
7	Rasuwa	4	56.1
8	Dolakha	12	529.053
9	Sindhupalchok	13	133.061
	Total	39	747.787

## Lumbini

S.N	District	Numbers	Capacity(MW)
1	Gulmi	1	5
2	Palpa	1	0.8
3	Pyuthan	1	12.5
	Total	3	18.3

## Sudurpaschim

S.N	District	Numbers	Capacity(MW)
1	Darchula	4	66.5
2	Bajhang	5	76.536
	Total	9	143.036

## Details of Hydropowers lies between Multiple districts.

S.N	District Border	Number	Capacity(MW)
1	Taplejung and Panchthar	6	65.34
2	Solukhumbu and Ramechhap	3	158.4
3	Khotang and Solukhumbu	1	86
4	Ramechhap and Solukhumbu	2	105.1
5	Dolakha and Ramechhap	3	79
6	Lalitpur and Makwanpur	1	22
7	Lamjung and Kaski	2	15.4
8	Mustang and Myagdi	1	71
9	kaski and Parbat	1	18
10	Gorakha and Lamjung	3	24.68
11	Gulmi and Palpa	1	2.4
12	Rukum and West Rukum	1	5
	Total	25	652.32

## SOLAR

### Province :-Koshi

S.N	District	Numbers	Capacity(MW)
1	Ilam	1	6.8

### Province :- Madesh

S.N	District	Numbers	Capacity(MW)
1	Dhanusha	2	11
2	Rautahat	1	4

### Province :- Bagmati

S.N	District	Numbers	Capacity(MW)
1	Kathmandu	1	0.68

### Province :- Gandaki

S.N	District	Numbers	Capacity(MW)
1	Kaski	1	4.4
2	Tanahun	1	5

### Province :- Lumbini

S.N	District	Numbers	Capacity(MW)
1	Banke	2	20
2	Parasi	3	8
3	Rupandehi	1	8.5

## COGENERATION

### Province :- Madesh

S.N	District	Numbers	Capacity(MW)
1	Dhanusha	1	3

## GOVERNMENT SECTOR

### HYDROPOWER

### Province :- Koshi

S.N	District	Numbers	Capacity(MW)
1	Ilam	1	6.2
	Total	1	6.2

### Province :- Bagmati

S.N	District	Numbers	Capacity(MW)
1	Kavrepalanchok	1	2.4
2	Nuwakot	2	38.1
3	Rasuwa	1	60
4	Sindhupalchok	2	17.55
5	Makwanpur	3	106
	Total	9	224.05

**Province :- Gandaki**

S.N	District	Numbers	Capacity(MW)
1	Kaski	2	2.5
2	Lamjung	1	70
3	Myagdi	1	2
4	Parbat	1	14.8
	Total	5	89.3

**Province :- Lumbini**

S.N	District	Numbers	Capacity(MW)
1	Gulmi	1	5
2	Palpa	1	0.8
3	Pyuthan	1	12.5
	Total	3	18.3

**Province :- Karnali**

S.N	District	Numbers	Capacity(MW)
1	Dailekh	2	8.55
	Total	2	8.55

**Province :- Sudurpaschim**

S.N	District	Numbers	Capacity(MW)
1	Darchula	1	30
	Total	1	30

## Details of Hydropowers lies between Multiple districts.

S.N	District Border	Number	Capacity(MW)
1	Gorakha and Tanahu	1	69
2	Syangja , Gulmi and Palpa	1	144
3	Gorakha and Tanahu	1	69
4	Syangja , Gulmi and Palpa	1	144
5	Nawalpur,Chitwan andparasi	1	15
6	Palpa and Rupandehi	1	1.024
	Total	6	442.024

## THERMAL

### Province :- Koshi

S.N	District	Numbers	Capacity(MW)
1	Sunsari	1	39

### Province :- Bagmati

S.N	District	Numbers	Capacity(MW)
1	Makwanpur	1	14.41



# Construction license

Private sector

## HYDROPOWER

Province :- Koshi			
S.N	District	Numbers	Capacity(MW)
1	Panchthar	1	5
2	Okhaldhunga	2	26
3	Tehrathum	2	10.3
4	Ilam	3	23.5
5	Khotang	3	13
6	Morang	3	12.27
7	Bhojpur	9	72.704
8	Solukhumbu	11	263.69
9	Sankhuwasabha	17	1305.54
10	Taplejung	18	1105.4
	Total	69	2837.404
Province :- Bagmati			
S.N	District	Numbers	Capacity(MW)
1	Ramechhap	3	66.97
2	Dhading	7	159.3
3	Nuwakot	7	37.5
4	Rasuwa	13	765.62
5	Sindhupalchok	16	475.75
6	Dolakha	21	642.576
	Total	67	2147.72

**Province :- Gandaki**

S.N	District	Numbers	Capacity(MW)
1	Baglung	6	37.68
2	Gorkha	15	891.71
3	Kaski	17	328.71
4	Lamjung	14	394.51
5	Manang	7	449.25
6	Myagdi	23	550.69
	Total	82	2652.55

**Province :- Lumbini**

S.N	District	Numbers	Capacity(MW)
1	Gulmi	2	1.48
2	Rolpa	1	0.996
	Total	3	2.476

**Province :- Karnali**

S.N	District	Numbers	Capacity(MW)
1	Mugu	1	0.5
2	Dolpa	1	106
3	Jumla	1	0.98
4	Dailekh	3	10.35
5	Rukum West	3	66.72
6	Kalikot	4	888
	Total	13	1072.55

Province :- Sudurpaschim			
S.N	District	Numbers	Capacity(MW)
1	Achham	1	1.55
2	Baitadi	1	1
3	Bajhang	5	242.28
4	Bajura	1	4.5
5	Darchula	1	85
	Total	9	334.33

### Details of Hydropowers lies between Multiple districts are

S.N	District Border	Number	Capacity (MW)
1	Taplejung and Panchthar	2	52.6
2	Okhaldhunga and Ramechhap	1	30
3	Solukhumbu ,Ramechhap and Okhaldhunga	1	6
4	Okhaldhunga and Solukhumbu	1	5
5	Gorkha and Chitwan	1	100
6	Ramechhap and Sindupalchok	2	11
7	Nuwakot and Rasuwa	1	15.625
8	Makwanpur and Lalitpur	1	6.5
9	Makwanpur and Sindhuli	1	41.86
10	Dolakha and Ramechhap	2	8
12	Mustang and Myagdi	2	202
13	Gulmi and Baglung	1	6.6
14	Gorakha and Lamjung	2	12.096
15	Nawalpur and Tanahu	1	38.16
16	Parasi and Palpa	1	2
17	Rukum and West Rukum	1	3.3
18	Baglung and Gulmi	1	7.3
19	Doti and Kailali	1	17
	Total	23	565.041

## SOLAR

### Province :- Koshi

S.N	District	Numbers	Capacity(MW)
1	Jhapa	2	15
2	Sunsari	1	8

### Province :- Madesh

S.N	District	Numbers	Capacity(MW)
1	Parsa	1	7.7
2	Dhanusha	2	13

### Province :- Lumbini

S.N	District	Numbers	Capacity(MW)
1	Kapilvastu	3	29

## Government Sector

### HYDROPOWER

Province :-		Gandaki	
S.N	District	Numbers	Capacity(MW)
1	Kaski	2	60.2
	Total	2	60.2

<b>Province :- Lumbini</b>			
S.N	District	Numbers	Capacity(MW)
1	Palpa	1	3.44
	Total	1	3.44

### **Details of Hydro powers lies between Multiple districts.**

S.N	District Border	Number	Capacity(MW)
1	Nuwakot and Rasuwa	1	37
	Total	1	37

## **SOLAR**

<b>Province :- Bagmati</b>			
S.N	District	Numbers	Capacity(MW)
1	Nuwakot	4	17.86
2	Sindhupalchok	1	6.5

# Apply construction license

Private Sector

## HYDROPOWER

### Province :- Koshi

S.N	District	Numbers	Capacity(MW)
1	Bhojpur	1	15
2	Khotang	1	5.4
3	Okhaldhunga	3	15.015
4	Taplejung	6	178.72
5	Panchthar	8	741.8
6	Sankhuwasabha	8	642.33
	Total	27	1598.265

### Province :- Bagmati

S.N	District	Numbers	Capacity(MW)
1	Ramechhap	1	0.9
2	Dolakha	1	88
3	Dhading	1	4.5
4	Rasuwa	1	24.6
5	Makwanpur	1	4.5
6	Sindhupalchok	6	384.47
	Total	11	506.97

**Province :- Gandaki**

S.N	District	Numbers	Capacity(MW)
1	Baglung	1	8.8
2	Gorkha	4	226.95
3	Kaski	3	35.894
4	Lamjung	2	601.6
5	Manang	2	63.7
6	Myagdi	7	82.35
	Total	19	1019.294

**Province :- Karnali**

S.N	District	Numbers	Capacity(MW)
1	Surkhet	1	439
2	Kalikot	2	503.9
3	Mugu	3	2343
4	Jajarkot	2	424.1
5	Dolpa	1	325
6	Humla	3	668.17
	Total	12	4703.17

**Province :- Sudurpaschim**

S.N	District	Numbers	Capacity(MW)
1	Bajhang	2	73
2	Darchula	3	47
	Total	5	120

## Hydropowers lies between Multiple districts are

S.N	District Border	Number	Capacity(MW)
1	Taplejung and Panchthar	3	13.495
2	Okhaldhunga and Rammehap	1	8.6
3	Sankhusabha and Bhojpur	1	41.061
4	Tanahu, Nawalpur and Chitwan	1	126
5	Gorakha and Lamjung	2	6.2
6	Rukum and Rukum West	1	49.59
7	Jajarkot and West Rukum	1	270
8	Mugu, Humla and Bajura	1	159.62
	Total	11	674.566



## SOLAR

### Province :-Koshi

S.N	District	Numbers	Capacity(MW)
1	Jhapa	2	15
2	Sunsari	1	8
	Total	3	23

### Province :- Lumbini

S.N	District	Numbers	Capacity(MW)
1	Banke	1	10
2	Dang	2	20
3	Kapilvastu	1	15
	Total	4	45

### Province :- Karnali

S.N	District	Numbers	Capacity(MW)
1	Surkhet	1	1.2

## THERMAL

### Province :- Madesh

S.N	District	Numbers	Capacity(MW)
1	Dhanusha	1	2.3
2	Bara	1	1
3	Siraha	1	4

## GOVERNMENT SECTOR

## HYDROPOWER

### Province :- Gandaki

S.N	District	Numbers	Capacity(MW)
1	Kaski	1	150

### Province :- SudurPaschim

S.N	District	Numbers	Capacity(MW)
1	Bajhang	1	210

## Hydro powers lies between Multiple districts are

S.N	District Border	Number	Capacity(MW)
1	Solukhumbu, Khotang and Okhaldhunga	1	600
2	Baglung and Rolpa	1	828
3	Palpa and Syangja	1	180
	Total	3	1608

## **SURVEY LICENSE**

## **PRIVATE SECTOR**

## **HYDROPOWER**

Province :- Koshi

S.N	District	Numbers	Capacity(MW)
1	Bhojpur	3	21.2
2	Sankhuwasabha	11	1365.81
3	Solukhumbu	5	128.687
4	Taplejung	5	210.24
	Total	24	1725.937

### Province :- Bagmati

S.N	District	Numbers	Capacity(MW)
1	Sindhuli	1	4.5
2	Dhading	1	4.72
3	Nuwakot	1	30
4	Dolakha	3	1.946
5	Rasuwa	3	25.984
6	Sindhupalchok	3	14.2
	Total	12	81.35

### Province :- Gandaki

S.N	District	Numbers	Capacity(MW)
1	Gorkha	2	296
2	Kaski	1	3.75
3	Manang	3	117.86
	Total	6	417.61

### Province :- Lumbini

S.N	District	Numbers	Capacity(MW)
1	Arghakhanchi	1	0.905
2	Palpa	1	0.5
3	Pyuthan	1	22
4	Rukum	3	95
	Total	6	118.405

**Province :- Karnali**

S.N	District	Numbers	Capacity(MW)
1	Mugu	1	57
2	Jajarkot	1	6.3
3	Dolpa	1	3.5
4	Rukum West	3	40.04
5	Humla	4	412.925
6	Jumla	1	0.998
	Total	11	520.763

**Province :- Sudurpaschim**

S.N	District	Numbers	Capacity(MW)
1	Bajhang	6	305.5
2	Dadeldhura	1	4.3
	Darchula	4	30.782
	Total	11	340.582

## Hydropowers lies between Multiple districts are

S.N	District Border	Number	Capacity
1	Taplejung and Panchthar	2	23
2	Okhaldhunga and Ramechap	3	58
3	Sankhuwasabha and Bhojpur	1	679
4	Dolakha and Ramechap	1	650
5	Sindupalchok , Ramechap,Dolakha and Kabhreplanchok	1	683
6	Palpa and Rupandehi	1	1.024
7	Baglung and Gulmi	2	28.33
8	Kaski and Tanahu	1	0.8
9	Lamjung and Manang	1	327
10	Gorakha and Tanahu	2	104.9
11	Rukum and West Rukum	1	60
12	Dailekh and Kalikot	1	100
13	Dolpa and Jajarkot	1	120.6
14	Humla and Bajura	1	70
15	Jajarkot and West Rukum	1	78
16	Mugu and Humla	1	61
17	Surkhet and Dailekh	1	900
18	Baitadi , Bajhang Doti and Dadeldhura	1	750
	<b>Toal</b>	<b>23</b>	<b>4694.654</b>

**SOLAR****Province :-****Koshi**

S.N	District	Numbers	Capacity(MW)
1	Morang	1	8
2	Sankhuwasabha	1	9.9
3	Solukhumbu	1	10
4	Udayapur	1	10
	Total	4	37.9

**Province :-****Madesh**

S.N	District	Numbers	Capacity(MW)
1	Dhanusha	3	13
2	Sarlahi	2	20
3	Mahottari	1	10
	Total	6	43

**Province :- Bagmati**

S.N	District	Numbers	Capacity(MW)
1	Nuwakot	1	3
2	Sindhupalchok	1	9.9
	Total	2	12.9

**Province :- Gandaki**

S.N	District	Numbers	Capacity(MW)
1	Baglung	2	20
2	Parbat	2	20
	Total	4	40

**Province :- Lumbini**

S.N	District	Numbers	Capacity(MW)
1	Arghakhanchi	1	10
2	Banke	3	315
3	Bardiya	4	75
4	Dang	2	17.5
5	Kapilvastu	1	30
6	Parasi	1	10
7	Pyuthan	1	7
	Total	13	464.5



### Province :-Karnali

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

### Province :- Sudurpaschim

S.N	District	Numbers	Capacity(MW)
1	Kailali	8	125
	Total	8	125

## WIND

### Province :-Gandaki

S.N	District	Numbers	Capacity(MW)
1	Mustang	1	3
	Total	1	3

### Province :- Lumbini

S.N	District	Numbers	Capacity(MW)
1	Banke	1	10
	Total	1	10

## GOVERNMENT SECTOR

## HYDROPOWER

### Province :- Koshi

S.N	District	Numbers	Capacity(MW)
1	Sankhuwasabha	1	490.2
	Total	1	490.2

### Province :-Karnali

S.N	District	Numbers	Capacity(MW)
1	Rukum West	1	334
2	Jumla	1	70.37
	Total	2	404.37

Hydropowers lies between Multiple districts are :

S.N	District Border	Number	Capacity(MW)
1	Khotang , okhaldhunga and Udaypur	1	35
2	Panchthar and Terahathum	1	200
	Total	2	235

## SOLAR

### Province :-Gandaki

S.N	District	Numbers	Capacity(MW)
1	Lamjung	1	1.6

### Province :- Lumbini

S.N	District	Numbers	Capacity(MW)
1	Parasi	1	5.8

### Province :- Karnali

S.N	District	Numbers	Capacity(MW)
1	Surkhet	1	2

Province:-Koshi			
S.N	District	Number	Capacity(MW)
1	Morang	1	0.99
2	Dhankuta	1	0.996
3	Illam	2	16
4	Khotang	1	6.5
5	Sankhuwasabha	9	226.526
6	Solukhumbu	6	162.924
7	Taplejung	12	554.131
8	Terhathum	2	10.3
9	Bhojpur	3	31.6
	Total	37	1009.967
Province:- Bagmati			
S.N	District	Number	Capacity(MW)
1	Dhading	5	120.171
2	Dolakha	7	401.89
3	Kavrepalanchowk	1	6
4	Lalitpur	1	41.314
5	Nuwakot	4	34.125
6	Ramechhap	2	66.02
7	Rasuwa	10	651.91
8	Sindhupalchowk	11	299.063
	Total	41	1620.493

Province:- Gandaki			
S.N	District	Number	Capacity(MW)
1	Baglung	4	16.3
2	Gorkha	5	46.92
3	Kaski	7	160.175
4	Lamjung	5	66.31
5	Manang	1	65
6	Mustang	1	2.2
7	Myagdi	11	366.139
8	Parbat	1	3.75
9	Tanahun	1	140
	Total	36	866.794
Province:- Lumbini			
S.N	District	Number	Capacity(MW)
1	Argakhanchi	1	0.905
2	Palpa	1	1.665
3	Gulmi	1	1.75
	Total	3	4.32
Province:- Karnali			
S.N	District	Number	Capacity(MW)
1	Dailekh	3	10.35
2	Dolpa	1	106
3	Kalikot	1	13.5
	Total	5	129.85
Province:- Sudurpaschim			
S.N	District	Number	Capacity(MW)
1	Bajhang	1	11.05
2	Doti	1	1.55
	Total	2	12.6

Hydropower Lies between Multiple districts :

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

## SOLAR

Province:- Koshi			
S.N	District	Number	Capacity(MW)
1	Sunsari	1	8
	Total	1	8
Province:- Madesh			
S.N	District	Number	Capacity(MW)
1	Parsa	2	15.7
	Total	2	15.7
Province:- Lumbini			
S.N	District	Number	Capacity(MW)
1	Dang	1	3
2	Kapilvastu	2	25
	Total	3	28
		137	3905.724

## DIFFERENT STAGE

### HYDROPOWER

Province:- Koshi			
S.N	District	Number	Capacity(MW)
1	Dhankuta	1	0.64
3	Illam	1	8.3
4	Khotang	2	6.2
5	Sankhuwasabha	12	294.393
6	Solukhumbu	4	107.212
7	Taplejung	4	403.42
8	Okhaldhunga	1	21
9	Panchthar	1	5
10	Terhathum	1	2
11	Bhojpur	4	31.924
	Total	31	880.089
Province:- Bagmati			
S.N	District	Number	Capacity(MW)
1	Dhading	4	36.22
2	Dolakha	10	146.815
3	Makwanpur	1	4.44
4	Lalitpur	1	6.5
6	Ramechhap	1	0.9
7	Rasuwa	2	30.6
8	Sindhupalchowk	12	258.24
	Total	31	483.715

Province:- Gandaki			
S.N	District	Number	Capacity(MW)
1	Baglung	2	11.01
2	Gorkha	10	758.811
3	Kaski	9	206.322
4	Lamjung	5	113.31
5	Manang	6	411.06
6	Myagdi	12	385.75
7	Nawalpur	2	4.5
8	Parbat	1	10.5
9	Tanahu	1	38.16
	Total	48	1939.423

Province:- Lumbini			
S.N	District	Number	Capacity(MW)
1	Rukum	3	94.476
2	Gulmi	1	0.98
	Total	4	95.456

Province:- Karnali			
S.N	District	Number	Capacity(MW)
2	Rukum (West)	1	20.731
3	Kalikot	1	12
	Total	2	32.731

Province:- Sudurpaschim			
S.N	District	Number	Capacity(MW)
1	Baitadi	1	1
2	Bajhang	3	217.233
3	Darchula	2	29.304
	Total	6	247.537



<b>Hydropower Lies between Multiple districts :</b>			
<b>S.N</b>	<b>District</b>	<b>Number</b>	<b>Capacity(MW)</b>
1	Dolakha and Ramechhap	1	9
2	Doti and Kailali	1	17
3	Kaski and Tanahu	1	0.981
4	Lamjung and Gorkha	1	2
5	Ramechhap and Okhaldhunga	1	30
6	Tanahu and Gorkha	1	90
	Total	6	148.981

## SOLAR

Province:- Koshi			
S.N	District	Number	Capacity(MW)
1	Jhapa	1	5
	Total	1	5
Province:- Madesh			
S.N	District	Number	Capacity(MW)
1	Dhanusha	1	5
2	Parsa	1	2.3
	Total	2	7.3
Province:- Lumbini			
S.N	District	Number	Capacity(MW)
1	Argakhanchi	1	10
2	Dang	1	10
3	Kapilvastu	2	38
	Total	4	58
Province:- Karnali			
S.N	District	Number	Capacity(MW)
1	Surkhet	1	1.2
	Total	1	1.2

# Disclaimer

**This book has been prepared using information sourced from publicly available data on the official websites of 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.**



## **Independent Power Producers Association Nepal (iPPAN)**

Heritage Plaza II, Kamaladi, Kathmandu, Nepal

Phone No : +977 1 4169175

Mobile No: +977 9851358275

E-mail : [info@ippan.org.np](mailto:info@ippan.org.np)