

**VISION 2020  
A Perspective**



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**Presentation**

- Present Status
- Vision 2020
- Projects
- Money
- Role
- Legal regime
- Threat/Challenges

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**Status Now**

**Year 2008 :**  
Total Hydro Generation Capacity (>1MW capacity) **547 MW**  
+ 70 MW  
Under construction projects **89 MW**

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**Status Now**

Issued Generation License (Under operation)

No	Project	Capacity (MW)	Promoter	District	Status
1	Khimti-I	60.0	Himal Power Limited	Dolakha, Ramechhap	Operational
2	Devghat	14.1	Nepal Electricity Authority	(Nuwakot)	Operational
3	Tharu	1.024	Nepal Electricity Authority	(Palpa)	(not in operation)
4	Marsyangdi	69.0	Nepal Electricity Authority	(Tanahu)	Operational
5	Trishuli	21.0	Nepal Electricity Authority	(Nuwakot)	Operational
6	Phewa	1.988	Nepal Electricity Authority	(Kaski)	Operational
7	Kulekhani-II	32.0	Nepal Electricity Authority	(Makawanpur)	Operational
8	Sun Koshi	10.05	Nepal Electricity Authority	(Sindhupalchok)	Operational
9	Seti	1.5	Nepal Electricity Authority	(Kaski)	Operational
10	Panauli	2.4	Nepal Electricity Authority	(Kabhrpalanchok)	Operational
11	Kulekhani-I	60.0	Nepal Electricity Authority	(Makawanpur)	Operational
12	Chandak	15.0	Nepal Electricity Authority	(Nawalparasi)	Partly Operational
13	Tatopani	2.0	Nepal Electricity Authority	(Myagdi)	Operational

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**Status Now**

Issued Generation License (Under operation): contd


14	Andhi Khola	5.1	Butwal Power Company	(Syangja)	Operational
15	Jhimruk Khola	12.5	Butwal Power Company	(Pyuthan)	Operational
16	Ilam (Puwa)	6.2	Nepal Electricity Authority	(Ilam)	Operational
17	Modi Khola	14.0	Nepal Electricity Authority	(Parbat)	Operational
18	Kali Gandaki A	144.0	Nepal Electricity Authority	(Syangja)	Operational
19	U. Bhotekoshi	36.0	Bhotekoshi Power Company	(Sindhupalchok)	Operational
20	Chilime	20.0	Chilime H. C. Ltd	(Rasuwa)	Operational
21	Indrawati -III	7.5	National H. C. P. Ltd.	(Sindhupalchok)	Operational
22	Piluwa Khola	3.0	Arun Valley H. D. C. P. Ltd.	(Sankhuwasabha)	Operational
23	Sunkoshi Small	2.6	Sanima Hydropower Pvt.Ltd	(Sindhupalchok)	Operational
24	Chaku Khola	1.60	Alliance Power Nepal P.Ltd	(Sindhupalchok)	Operational
25	Thoppal Khola	1.65	Thoppal Khola H. Co.	(Dhading)	Operational
26	Khudi Khola	4.0	Khudi hydropower limited	(Lamjung)	Operational (P)
<b>Total</b>		<b>547.3</b>			

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**Status Now**


Issued Generation License (Under commissioning)

1	M.Marsyangdi	70.000	Nepal Electricity Authority	(Lamjung)	Under Commissioning
<b>Total</b>		<b>70.000</b>			
Issued Generation License (Under construction)					
1	Lower Indrawati	4,500	Sunkoshi H. Co. Ltd.	(Sindhupalchok)	Under Construction
2	Chameliya Khola	30,000	Nepal Electricity Authority	(Darchula)	Under Construction
3	Mardi Khola	3,200	Gandaki H. D. Co. P. Ltd	(Kaski)	Under Construction
4	Ridi Khola	2,400	Ridi H. Development Co.Ltd.,	(Palpa)	Under Construction
5	Kule Khani Thind	14,000	Nepal Electricity Authority	(Makawanpur)	Under Construction
6	Hewa khola	2,400	Barun H. D. Co. Pvt. Ltd	(Sankhuwasabha)	Under Construction (amand)
7	L. Chaku Khola	1,800	Laughing Buddha Pvt. Ltd	(Sindhupalchok)	Construction not Started
8	Mai Khola	2,400	Himal Dolkha H.Co Ltd	(Ilam)	Construction not Started
9	Upper Modi	14,000	GITEC	(Kaski)	Problem
10	Maitung Khola	5,000	Maitun Khola H. Co. Pvt. Ltd	(Rasuwa)	Construction not Started
11	Lower Nyadi	4,500	Baverian H. Nepal Pvt.Ltd	(Lamjung)	Construction not Started
12	Daram Khola	5,000	The Gurkha H.Pvt. Ltd.	(Baglung)	Construction not Started
<b>Total</b>		<b>89,200</b>			

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**10 Year's target**


**Vision 2020 :**  
 Total Hydro Generation Capacity >> **10,000 MW**  
 % of people served ≈ **100 %**

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**Projects**

Survey License status:

	No	Capacity (MW)
Below 1 MW	140	≈ 100
Above 1 MW	280	≈ 7000
Under process (>10MW)	50	≈ 5000
DoED study projects	27	≈ 350
<b>(includes TYIP projects 600MW by public sector and 1500 MW by private sector)</b>		
<b>Total ≈</b>		<b>13,000 MW</b>

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**Projects**

Other Projects:  
West Seti Storage Project (750 MW)

Other projects which are not yet licenced such as:  
Budhi Gandaki, Tamor Dam, Sunkoshi Dams, Bheri Dams, W. Seti Dam and others

Multipurpose Projects:  
Pancheshwar high Dam(≈6000 MW),  
Sapta + Sun Koshi Dam(≈3500 MW ),  
Karnali Multipurpose Project (≈11000 MW),  
and others.

*The message "There is no shortage of projects"*

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**Money Matters**

How much:

**ONE trillion (10 Kharab)<sup>++</sup> NRs  
(15 billion US\$)**

(Present Annual budget: 2.5 Kharab)

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**Money Matters**

Where is the money; (ONE trillion (10 Kharab) NRs)

- Government
- Public Sector
- Private Sector (Domestic + International)

**(in short every sector individually & collectively)**

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**Role**

**Government;**  
Plan, Policy, Invest, Facilitate, (Regulate).

**Regulator;**  
Regulate.

**Public Sector;**  
Execute, Develop, Invest.

**Private Sector;**  
Invest, Develop.

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**Projects**

Need to prioritize the projects that could be implemented in next 10 yrs.

Govt. will prioritize the projects through a committee with involvement of stakeholders.

The prioritized list will consists the projects;

- Feasibility Study projects (could be ?? % of the total).
- Will include other projects which are not licensed yet.
- Some of identified reservoir projects.

**But;**  
Mega projects (multipurpose) projects may not be included.

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**Policy**

Hydropower Development Policy,


One of the objectives of the HDP, 2001 is to develop hydropower potential of Nepal in a sustainable way to meet the domestic demand and as an exportable commodity and to attract foreign investment in the sector.

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**Acts**

New Acts to come;


- Electricity Act (new)
- Nepal Electricity Regulatory Commission

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**Acts**

New Electricity Act;

- Timebound and transparent licence procedure
- De licensing upto 3 MW
- Company required
- Unbundling of the sector
- Clear financial incentives
- Provision for competition
- Rights and prevelidges of the local people
- Restructing of the royalty provisions
- High level "one window" service committee
- Defined provisions for Export oriented projects
- Power Trading through private sector will be opened

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**Acts**

Nepal Electricity Regulatory Commission;

- Will be an independent commission
- Will create level playing field for all players
- will create Investment friendly environment
- Will protect the consumers (and other stakeholders) interest
- Will monitor, regulate the sector
- Will fix the tariff at various stages of transaction


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**Threat**

Biggest threat;

**Perception of Political Risk**


(developers needs to be ascertained by deeds)

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**Challenges**

Challenges;

- Lack of investment friendly environment
- Local peoples unjustified demand and aspirations
- Overall Security situation
- Confusion on Country's political regime
- Capability to facilitate the developers
- Market development
- Development of other related infrastructure
- And many others

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**Optimism**

Big question ???

**Is it achievable ???**

**YES**

(Everyone has to work together towards the mission)

