

Investment Opportunities in Gandaki Province

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Main subjects highlighted in this presentation

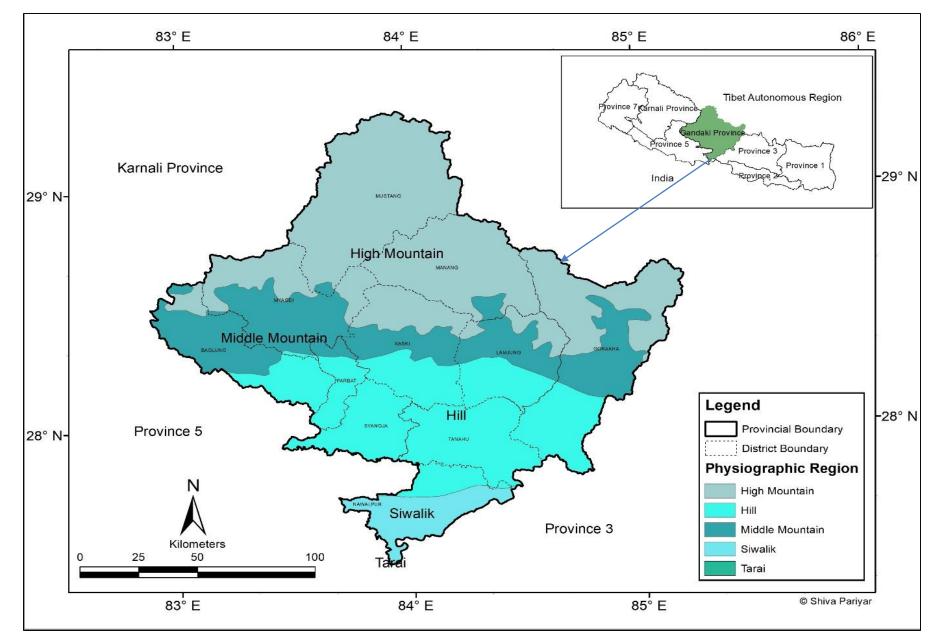
- Brief introduction of Gandaki Province
- Poverty in Gandaki Province
- Development aspiration of Nepal and Gandaki Province
- Selected development targets
- Seven key drivers and five enablers of prosperity
- Existing situation, government sector plan, private sector plan and opportunity for investment to private sector in tourism, energy, agriculture, industry, infrastructure and human resources

Brief Introduction of Gandaki Province

- Area
- % share of arable land in total land
- Per capita availability of arable land is
- Household Numbers
- Population (2018 Projected)
- Economically active population
- Population density per square KM
- Ethnic groups
- Local dialects
- Life expectancy at birth
- Total fertility rate per women
- Total GDP 2017/018
- Remittance
- GNI per capita income
- Climate
- Perennial snowline

- = 21,974 Square KM
- = 22.2 percent
- = 0.2 hectare
- = 577,682
- =2.49 Million
 - =57 %
- =114 persons
- = 22
- = 22
- =71.7 years
- =2.0 children
- = 2.57 Billion USD
- = 1.7 Billion USD
- =1,043 USD
- = Sub-tropical to tundra
- = 16,000 feet and >

Geography of Gandaki Province



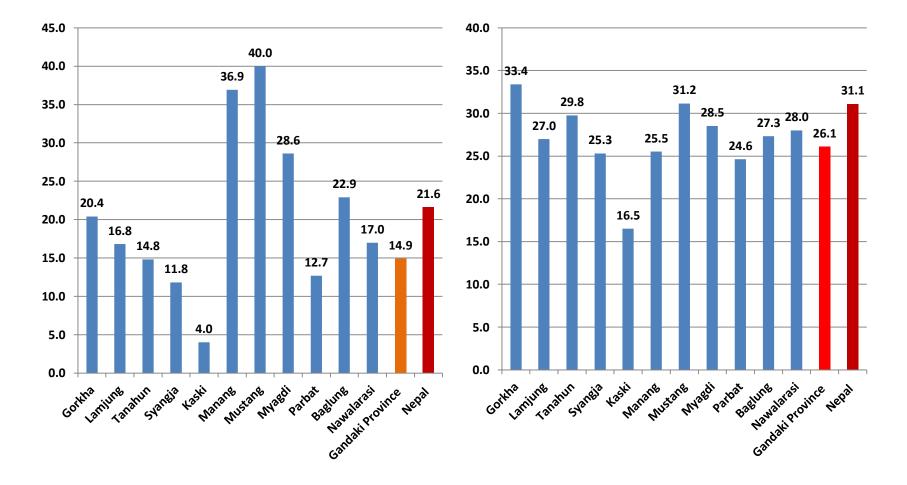
Geology of Gandaki Province



Poverty in Gandaki Province

% of people below national – (economic) poverty line

% of people in human poverty



Poor householdsPoor households in mountainPoor households in low land Terai







Development Aspiration of Nepal and Gandaki Province

- Graduate Nepal from least developed country to developing country by 2022
- Transform Nepal from low income country to middle income country by 2030
- Transform Nepal from middle income country to developed country by 2043
- Prosperous Nepal with happy citizen by 2043

Selected Development Targets of Gandaki Province

SN	Indicators	Target			
		Base year	2023 (Five	2030 (SDG	2043
		2019	Year Period)	Period)	(Prosperous Nepal and Happy Nepali Period)
1	Projected annual GDP growth rate	7.1	10.2	10.5	11.0
2	Size of GDP (in billion USD)	2.57	3.70	9.69	15.17
3	GNI per capita income (In Rs)	1,16,844	2,47,828	5,65,505	38,15,118
4	GNI per capita income (In USD)	1,043	1,956	3,721	15,729
5	People living below the national	14.91	7.4	2	0
	poverty line (%)				
6	Gini coefficient (Distribution of	0.37	0.26	0.23	0.20
	wealth)				
7	Life expectancy at birth (Years)	71.7	77	80	82
8	Maternal mortality ratio Per	239	99	70	15
	100,000 livebirths				
9	Under 5 mortality rates per 1000	27	22	15	6
	livebirth				

Selected Development Targets of Gandaki Province

SN	Indicators	Target			
		Base	2023 (Five	2030	2043 (Prosperous
		year	Year Period)	(SDG	Nepal and Happy
		2019		Period)	Nepali Period)
10	Adult literacy rate 15 years and	55.6	95	98	99.5
	above				
11	Unemployment rate (15 Years and	9	4	2	1
	above)				
12	% of population with access to	82.5	100	100	100
	electricity				
13	% of population with access to basic	91.1	100	100	100
	drinking water				
14	Population covered by social welfare	23	60	80	90
	scheme				
15	Electricity generation (megawatt)	448.5	3000	6000	9000
16	% of population using internet	48	80	90	100
17	Tourist arrival (million)	1	2	3	3.4
18	Human development index	0.59	0.65	0.70	0.78

Key drivers and enablers of Gandaki Province

Seven key drivers of prosperity

- Tourism
- Energy
- Agriculture
- Industry
- Infrastructures
- Human resources
- Governance

Five key enablers of prosperity

- Natural beauty
- Bio-diversity
- Unity in social diversity
- Cultural prosperity, coexistence and identity
- Demographic dividend

Tourism situation in Gandaki Province

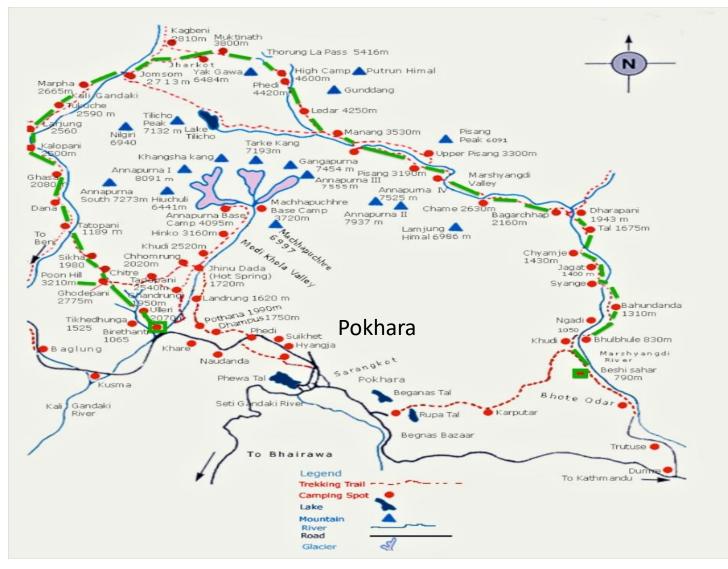
- Annual tourist arrival = 1 m/year Number of star hotel = 17 Number of tourist standard hotel = 358 No. of hotel, lodge and restaurant = 6,442 Number of homestay =342 Total hotel, restaurant and homestay = 7159 Indirect contribution of tourism in GDP = 10%
- No. of tourist standard hotel added in 2019 = 46

Annapurna Himalaya Range



Gandaki Province is a multi-cultural and multi-lingual province with an unity in diversity . It has unique topography, panoramic view and natural paradise

Annapurna Circuit



166,651 foreign tourists visited in Annapurna Area in 2017

It is one of the best 10 places of the world for travel and entertainment

Tourism sector plan of Gandaki Province

- Develop tourism sector master plan
- Consolidate and improve tourism infrastructures
- Complete construction of international airport in 2020
- Neighboring country's tourist visit year 2021
- International tourist visit year 2022
- Consolidate and expand homestay
- Facilitation to private sector
- Double the tourist arrival in 2022 compared to base year 2018

Private sector plan in tourism sector

- Construction of a cable car from Birethanti to Muktinath (It will be 84 KM long with an annual capacity of 3.6 million passenger and total investment will be USD 475 million)
- Under construction of Phewa Lake to Sarangkot cable car
- Under construction of Satrasayaphant to Badipur cable car
- Under study of Ghantichina to Panchase cable car
- Construction of two five star hotel
- Construction of middle size tourist standard hotels
- Expansion of tour and travel activities

Opportunities for investment in tourism sector

- Construction of tourist standard hotel
- Province will require 250 new tourist standard hotels in next five years
- Construction of international convention center
- Construction of conference standard hotel and resort
- Construction of beach park and hotel along the river bank
- Opening of new tour and travel agencies
- Skilled human resource production for tourism sector
- Luxury travel coach service
- Opening of new airline for international flight

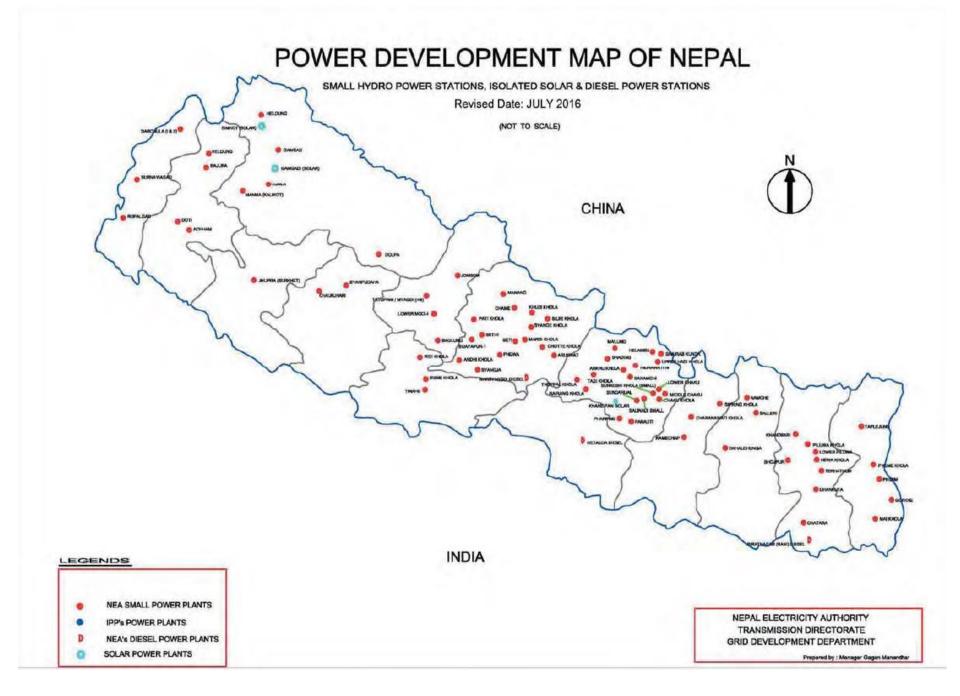
Energy situation in Gandaki Province

- Household using firewood for cooking
- People using LPG for heating and cooking
- People using biogas for cooking
- Households with access to electricity
- Per capita electricity consumption
- Theoretical potential of hydroelectricity
- Solar and wind potential
- Economic and technical potential
- Under study
- Under construction
- Generation at present
- Average production cost

- = 69.3 %
- = 25.6%
- =4.25%
- =82.5 %
- = 190 kilowatt/h
- = 20,650 MW
- =5,000 MW
- = 11,930 MW
- = 4,500 MW
- = 654 MW
- = 448.5 MW
- = 1.55 Mi.USD/MW

Gandaki River Basin



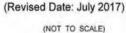


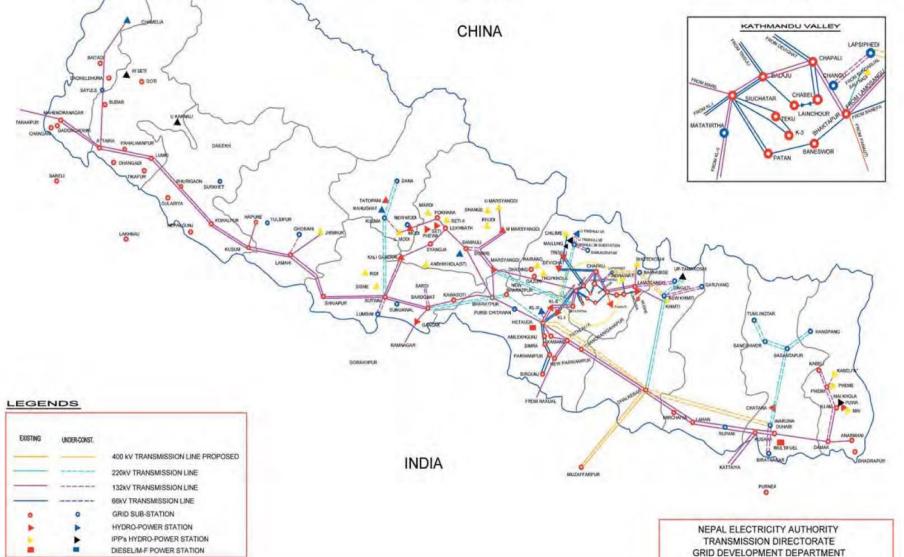
POWER DEVELOPMENT MAP OF NEPAL

EXISTING / UNDER CONSTRUCTION POWER STATIONS & TRANSMISSION LINES / SUBSTATIONS



Prepared by : Manager Gagan Manandhar





Energy sector plan of Gandaki Province

- Establish a energy sector agency
- Increase access of electricity for all households for lighting by the end of next fiscal year
- Facilitate to implement the 1,200 MW Budhigandaki, 600 MW Marshyangdi, 828 MW Uttarganga and 164 MW Kaligandaki hydroelectricity projects
- Increase electricity generation to 3,000 MW
- Implement one medium size hydro project
- Replace LPG by electricity

Private sector plan in energy sector

- 29 hydro projects of 654 MW are under construction. Out of them 500 MW will be completed in this year
- Private sector is investing USD 1 billion in these projects
- Construction of another 600 MW Marshangdi hydro project began in a joint initiative of Chinese and Nepali private sector
- Investment in this project will be USD 1 billion
- 45 medium size hydro projects are under study
- 25 MW solar projects are under construction
- Two biogas plants are recently completed

Opportunity for investment to private sector in energy

- Solar, wind and hydro electric projects
- Electric oven and kitchen ware production factory
- Transmitter production factory
- Electric car production
- Electric bus production
- Talley bus production
- Construction of charging station

Situation of agriculture and livestock in Gandaki Province

- 72 % households in Gandaki province are somehow linked to agriculture
- Per capita food grain production is 234 kg
- Per capita milk production is 64 liter and meat 11 kg
- 22.2% of land (4,87,578 hector) is arable
- Out of total arable land, 76% is under cultivation and 24% is abandoned
- Only 36% of land under cultivation is irrigated
- Productivity of rice is 3.4 ton/hectare, maize 2.7 ton/hectare, wheat 2.2 ton/hectare, and millet 1.1 ton/hectare

Agriculture in Gandaki Province



Gandaki Province plan in agriculture sector

- Develop self sufficiency in food, milk, meat and egg
- Chief Minister Climate Smart Agriculture Program
- Promotion of land consolidation and contract farming
- Expansion of apple farming in high mountain districts
- Promotion of agriculture and livestock model firms
- Subsidize agriculture and livestock loan
- Gadaki dairy development
- Organic farming
- Modernization of agriculture and livestock
- Collaboration and partnership with agriculture university, research institute, and famer's associations and groups

Private sector plan in agriculture sector

- Expansion of dairy industry
- Expansion of model agriculture and dairy firms (2500 firms are active)
- Establishment of a agriculture incubation center
- Establishment of livestock feed industry in collaboration with multinational company
- Expansion Agro Manang Apple Firm, one of the largest apple firms in Asia
- Expansion of buffalo, cow, pig and chicken firms

Opportunity for private sector in agriculture Sector

- Agro-processing industry
- Apple, orange, guava and mango juice production
- Model cow, buffalo, pork, goat and chicken firm
- Cow, buffalo, pork, goat breeding firm
- Meat production and processing
- Millet, maize and buckwheat noodle production and other ready made foods production
- Model fruit firm
- Fish production and packaging
- Biochar and organic manure production

Situation of industry in Gandaki Province

- Province has only 437 medium to small industry
- Province has one industrial estate with 89 industries
- Surya Tobacco Company, LG Company and Hyangsi cement are three largest industry of the province
- The province has a total of 100,668 enterprises

Plan of Gandaki Province in industry

- Develop a new province level industrial estate in Kaski and Tanahun district boarder in Puditar with an area of 140 hectare
- Develop another province level industrial estate in Nawalpur district with an area of 104 hectare
- Develop industrial cluster in 51 municipalities
- Operate Dhaubadi iron ore industry in Nawalpur district with daily capacity of 800 tons

Private sector plan in industry

- Electric car assembling industry
- Livestock feed industry
- Three cement factory in Madhya Bindu Nawalpur district, two in Syangja district (Sirsikot and Sworak)
- Herb processing industry in Nawalpur
- Scrap paper processing industry

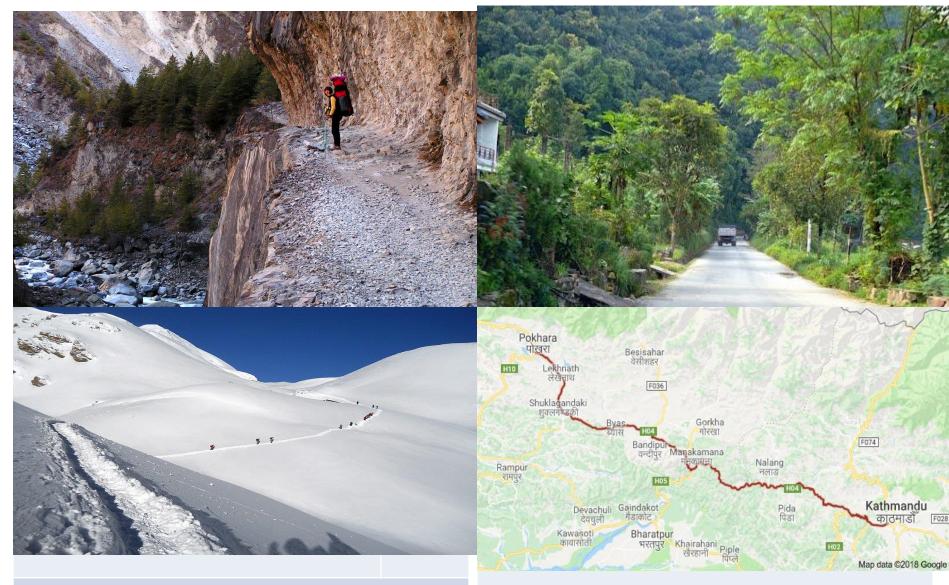
Opportunity for private sector in industry

- Construction materials production industry
- Steel
- Tile
- Tire and tube
- Pharmaceutical
- Cotton textile and garments
- Stone carving and brick making
- Iron and cupper industry
- Lease Gorakhkali tire and tube industry
- Electric wire and pole

Situation of infrastructure in Gandaki Province

Infrastructure Status	Value
Road density (Weather, gravel and black tapped) per square KM	0.49
Weather road (KM)	8,525
Gravel road (KM)	2,358
Black tapped road (KM)	937
No of domestic airports	5 (3 in operation)
Railway (Feasibility study) (KM)	519
Cable car (one operated and 4 under construction)	5
Tel density (Per person)	110
% of men using internet	61.27
% of women using internet	38.06
Motorable bridge (288 completed and 180 under construction)	468
Number of house under reconstruction after earthquake	114, 953
TV station	26

Infrastructures



Thorang La pass through Chame Side

Siddhartha and Prithvi Highways

Gandaki Province plan in infrastructures

- Link all 85 municipalities of the province in 2023 by upgrading and constructing 1,350 km road
- Complete blacktopping of 360 km electoral constituency road by 2023
- Korela- Baglung road 188 km
- Mid-hill highway 134 km
- Upgrade Pokhara-Mugling road 90 km
- Upgrade Pokhara-Ramdi road 93 km

Private sector plan in infrastructure sector

- Pokhara-Bhimad- Dumkibas road
- International convention center
- Pokhara ring road
- Solar and wind energy projects

Opportunities for private sector in infrastructure

- Pokhara ring road
- Pokhara-Bhimad- Dumkibas road
- International convention Centre
- Sport stadium
- Cricket and golf stadium
- High altitude sport training center
- Solar and wind energy in Mustang district

Human Resources situation in Gandaki Province

Education Status (Indicators)	Value	Health Status (Indicators)	Value	
Net enrollment rate in primary education (1-5 grade)	96.7	Maternal mortality rate (per 100,000 live birth)	239	
Net enrollment in basic education (1-8 grade)	94.7	Under 5 years mortality rate (per 1000 live birth)	27	
Net enrollment rate in secondary education (9-12 grade)	44.7	Neonatal mortality rate (Per 1000 live birth	15	
Literacy rate 5 years and above	70.0	Delivery assisted by trained health personnel (%)	70	
Literacy rate 15 years and above	55.6	Contraceptives prevalence rate (% modern methods)	37	
Literacy rate of 15-49 years	86.85	Spousal separation rate (%)	42	
women School drop out rate in grade 1	5.9	Tuberculosis prevalence rate (per	81	
School drop out rate in grade 1	5.5	100000 population)		
School drop rate in grade 5	3.0	Malaria prevalence e rate	135	
School drop out rate in grade 8	5.0	(per 100000 population)		

Education system

Prithvi Narayan Campus Bagar

Forestry college Hariyokharka



Pokhara University Lekhnath

Engineering College Lamachaur

Two types of schools (Public and private)



Rural community school

Lamachaur urban private boarding school

Two types of hospitals (Public and Private)



Pokhara Academy of Health Sciences and Mustang District Hospital -Public sector Gandaki and Manipal Teaching hospitals – private sector

Gandaki Province plan of in human resources

- Establish a Gandaki University
- Establish a Gandaki Institute of Technology
- Promote one municipality one science school
- Transform general subject college to technical college
- Consolidate 11 hospital and Ayurveda centers
- Develop a province hospital
- Increase coverage of health insurance to all citizen
- Establish a science and technology academy, sport academy, cricket stadium, golf course, high altitude sport training center
- Establish a multicultural village

Private sector plan in human resources

- 460 boarding schools are operated
- 44 campus
- 2 teaching hospitals
- 8 community hospitals
- Bungee Jump
- **Under study**
- Children hospital
- Cancer hospital

Opportunities for private sector in human resources

- Technical college for high quality education
- Integrated hospital with kidney, cardiovascular and cancer diagnosis and treatment services
- Women and children hospitals
- Food laboratory
- Modern press
- Paper industry
- Sport items production factory
- Construction and operation of IT park

Thank you for your kind attention