

Brief Energy Sector Overview and Energy Access

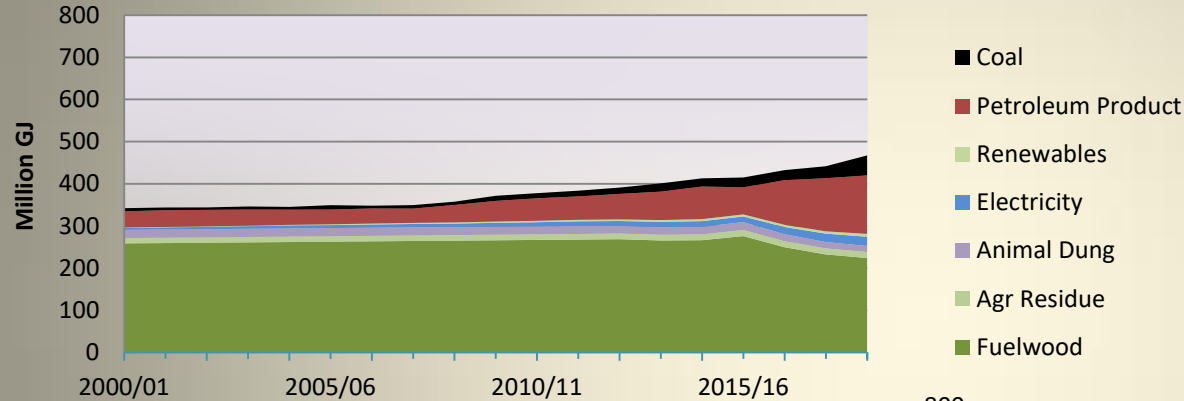
Vishwa Bhushan Amatya
Consultant

Key Energy and Macro-Economic Indicators

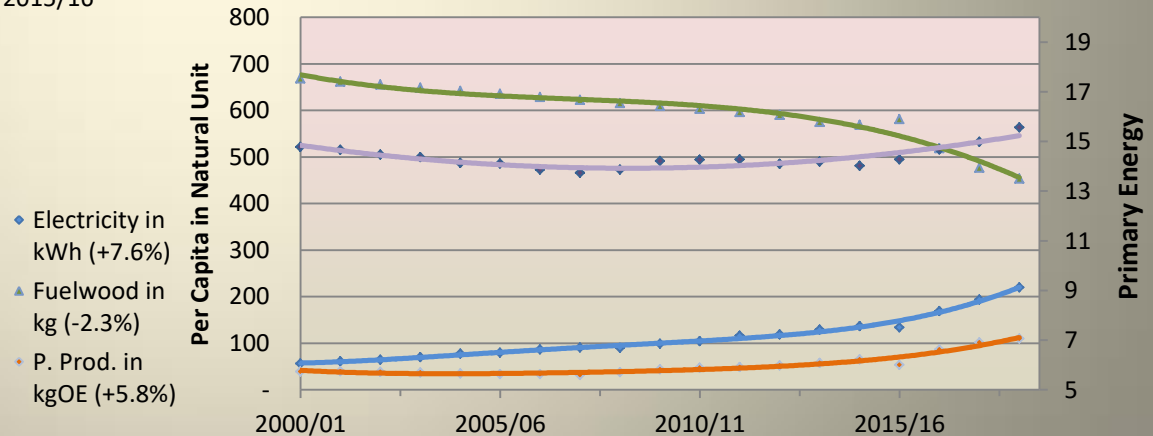
	Values in millions			Growths		
	2001	2011	2019*	1990s	2000s	2010s
Primary Energy	342.3	377.8	467.2	3.1%	1.0%	2.5%
Biomass	290.9	299.3	252.6	2.1%	0.3%	-2.1%
Renewables	1.0	3.3	5.6	NA	12.6%	9.4%
Commercial	50.4	75.3	208.9	13.1%	4.1%	13.5%
Coal	7.5	12.1	47.4	13.8%	5.0%	18.6%
Electricity	4.6	9.7	22.9	8.1%	7.7%	10.7%
All Petroleum	38.3	53.4	138.7	13.7%	3.4%	12.7%
Diesel	4.83	14.96	30.0	12.0%	7.2%	12.9%
Gasoline	0.77	2.80	8.9	13.8%	12.2%	14.8%
LPG	2.0	7.8	21.1	25.9%	14.8%	13.2%
Kerosene	14.6	2.0	1.1	15.2%	-18.0%	-6.7%
Population growth	23.2	26.5	29.6	2.25%	1.36%	1.34 ^P
GDP (Const. 84/85 Bill. NPR)	997	1445	2146	5.06	3.91%	4.88%
P-projection; * Provisional numbers						

Primary Energy Supply & Per-capita Consumptions

Primary Energy Consumption

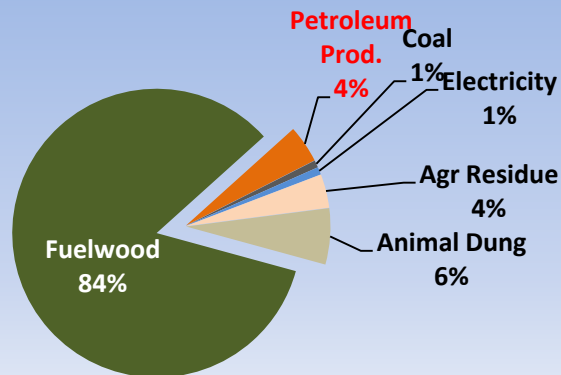


Per Capita PE Consumption

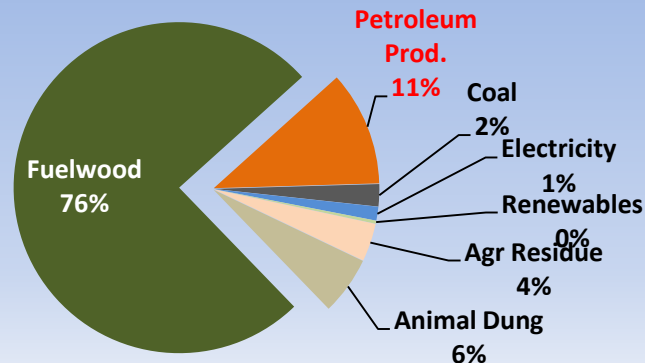


Energy Supply Structure 1990/91-2018/19

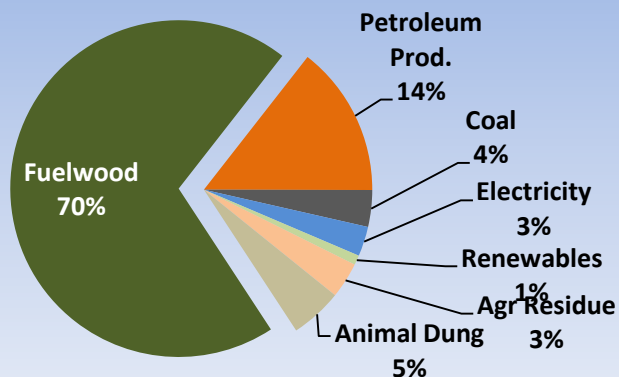
1990/91 - 251 TJ



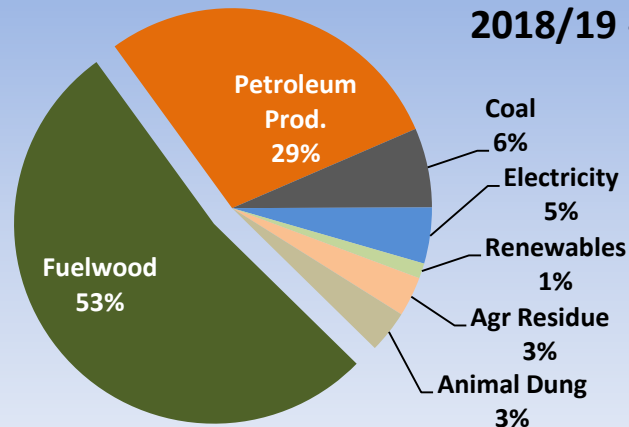
2000/01 - 342 TJ



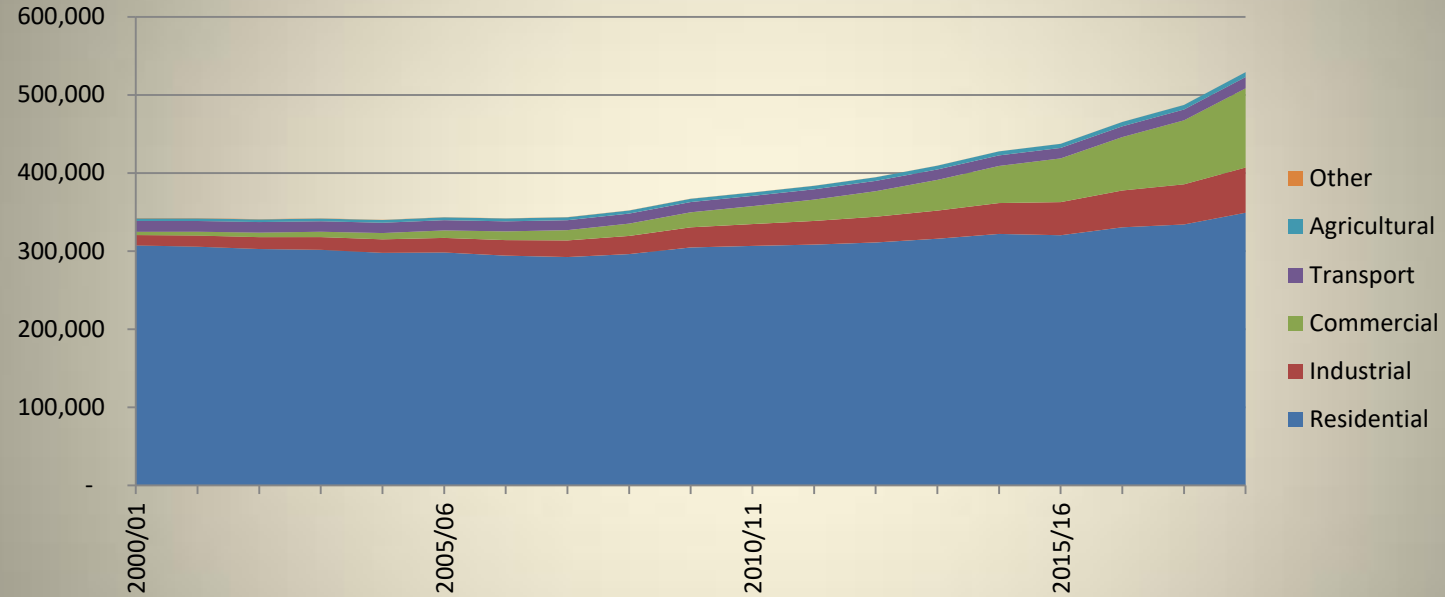
2011/12 - 385 TJ



2018/19 - 444 TJ

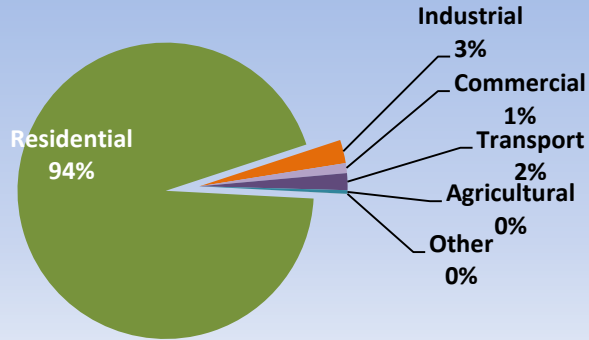


Energy Consumption

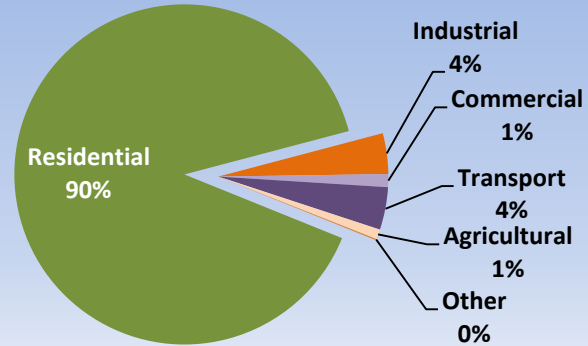


Energy Consumption

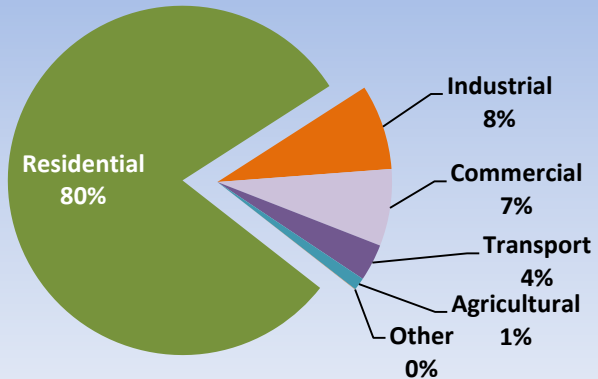
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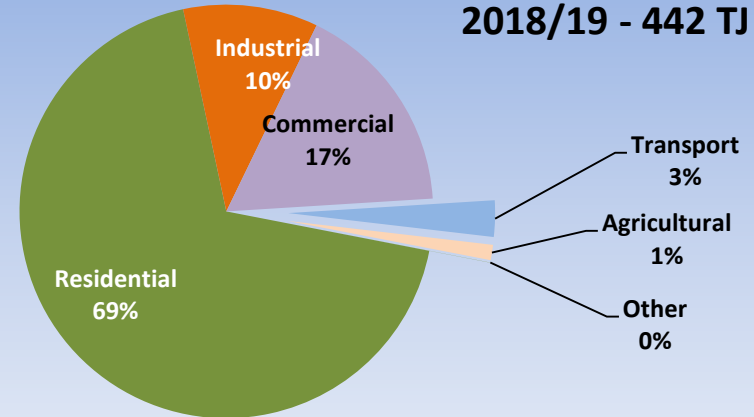
2000/01 - 344 TJ



2011/12 - 384 TJ



2018/19 - 442 TJ



SDG 7 Goal: Nepal Targets and Indicators

Target 7.1: By 2030, ensure universal access to affordable, reliable and modern energy services

7.1.1 Proportion of population with access to electricity

1 Per capita energy (final) consumption (in gigajoules)

7.1.2 Proportion of population with primary reliance on clean fuels and technology

1 Households using solid fuel as primary source of energy for cooking (%)

2 People using LPG for cooking and heating (%)

3 Electricity consumption (kWh per capita)

SDG 7 Goal: Nepal Targets and Indicators

Target 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix

7.2.1 Renewable energy share in the total final energy consumption

1 Installed capacity of hydropower (MW)

SDG 7 Goal: Nepal Targets and Indicators

Target 7.3 By 2030, double the global rate of improvement in energy efficiency

7.3.1 Energy intensity measured in primary energy and GDP

1 Commercial energy use per unit of GDP (ToE/mRs)

2 Energy efficiency in Industry (MJ per 1000 rupees of product)

3 Higher efficiency appliances (in residential & commercial) (%)

4 Electric vehicles in public transport systems (%)

SDG 7 Goal: Nepal Targets and Indicators

Target 7.a By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology

7.a.1

International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems

SDG 7 Goal: Nepal Targets and Indicators

Target 7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries and small island developing States.

7.b.1	Investments in energy efficiency as a proportion of GDP and the amount of foreign direct investment in financial transfer for infrastructure and technology to sustainable development services
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Electricity Access

	in '000		
	2017/18	2018/19*	2018/19*
NEA domestic consumer/connection	3,356	3,658	3,658
Average HH/connection	1.25	1.25	1.5
HH served by NEA	4,195	4,572	5,486
CRED	500	516	516
BPC Consumers	54	54	54
Solar	708	755	755
MH	410	410	410
Total Connected HH	4,749	5,126	6,056
Population	29,219	29,610	29,610
Households	6,461	6,618	6,618
% connected	73.5	77.5	91.5

Cooking

Households using various fuels for cooking

	Households		Yearly Cooking Consumption		Yearly Energy Consumed	
	Numbers	%	000 GJ	%	Quantity	Unit
Fuelwood	3,426,989	50.6%	120,313	74.1%	2,096	kg
Agri residue	323,554	4.8%	14,199	8.7%	3,494	kg
Animal waste	249,444	3.68%	12,510	7.7%	4,606	kg
Kerosene	53,984	0.8%	345	0.2%	130	ltr
LPG	1,707,067	25.2%	9,220	5.7%	117	kg
Other Petro		0.00%	-	0.0%	-	
Electricity	147,704	2.2%	691	0.4%	1,300	kWh
Biogas	869,416	12.8%	5,087	3.1%	254	cum
Micro	-	0.00%	-	0.0%		
Solar	-	0.00%	-	0.0%		
	6,778,157		162,365			

Thank you