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Arunachal Pradesh innovation & Investment Park (APIIP)
Niti Bihar, Itanagar
Arunachal Pradesh
Pin 791 111

Website for Ease of Doing Business in Arunachal
<https://eodb.arunachal.gov.in>



Arunachal Pradesh

“India’s Hydropower Hub”

Arunachal

Hydropower Potential

40%

Arunachal has **40%** of India's total hydropower potential and over **9%** of India's small hydropower potential

58,160

The Hydro potential is estimated to be over **58,160 MW**

8

Arunachal Pradesh has **8** major river basins to harness its hydroelectric potentials

Policies

Hydropower policies of Government of India as well as Government of Arunachal Pradesh are in place



“Hydropower is the future. It's our road to prosperity and to be self-reliant.”

- Pema Khandu, Hon'ble Chief Minister of Arunachal Pradesh

Why Invest in Hydropower in Arunachal?

Comprehensive transmission system for evacuation of power under progress

Availability of distribution network

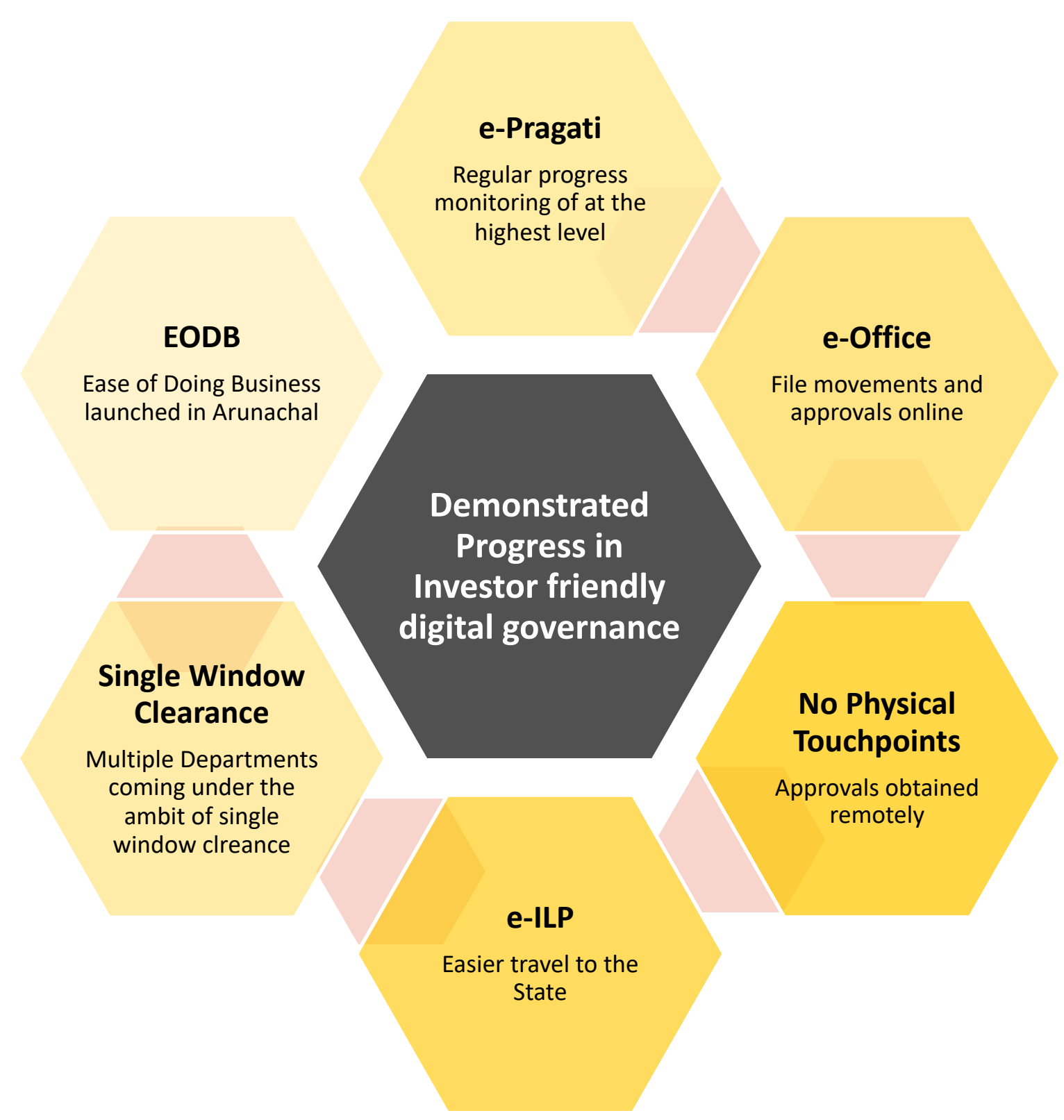
Low human density in project areas resulting in limited displacement

Regular high annual rainfall leading to better yield from projects

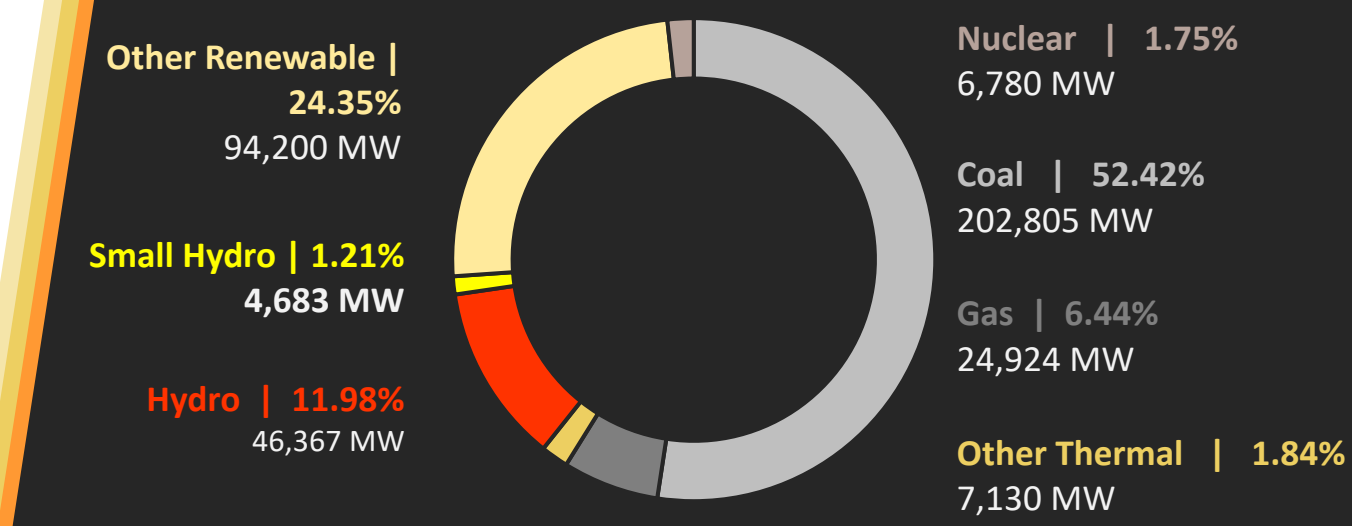
Projects already cleared under comprehensive river basin study

Arunachal

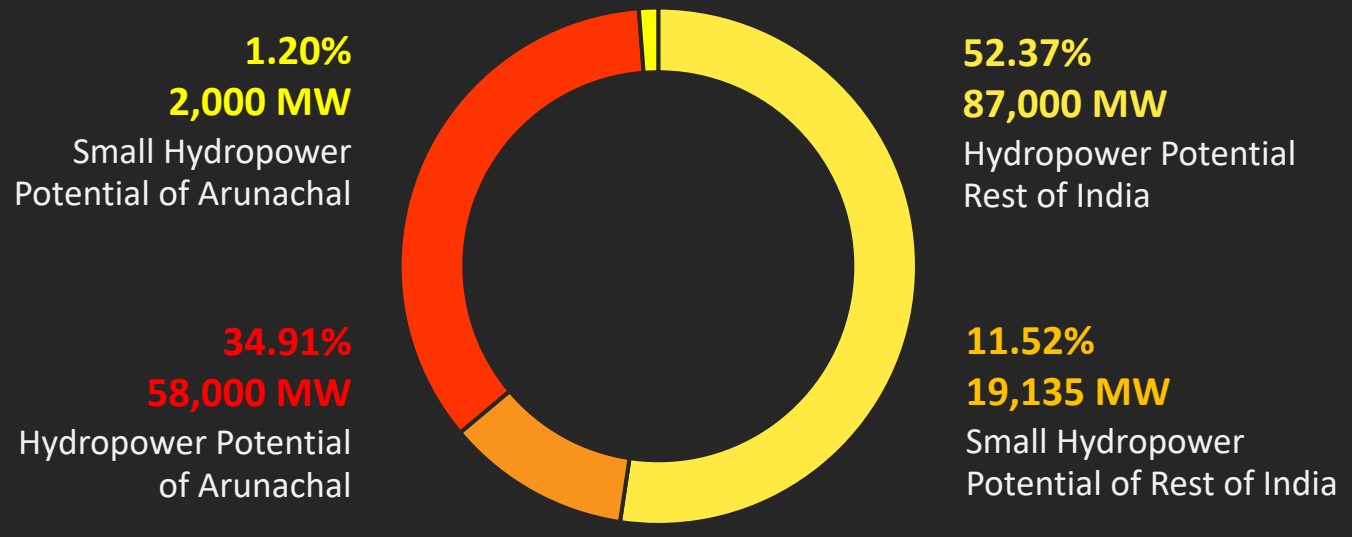
Governance & Policy Advantages



India: Current Power Generation



Hydropower: Arunachal vs Rest of India
Potential for Hydropower and Small Hydropower



8

Major river basins

188

Total number of investible projects identified

60+

Available projects for investment

The terrain of the river basins consists of mountainous deep valleys flanked by highland plateaus and ridges. The topography presents an ideal condition for the development of hydro-electric projects.



Arunachal

Easy Clearances and Approvals

Single Window System

Arunachal Pradesh Department of Hydropower Development has a Single Window System to provide mandatory No Objection Certificates from concerned Departments.

Mandatory NOCs to be obtained through Single Window System	Stipulated Timeline
✓ Cultural Affairs Department	Within 45 Days
✓ Fisheries Department	
✓ Labour Department	
✓ Land Management	
✓ Water Resource Department	

Statutory Clearances

In addition to the NOCs, State Government will support and facilitate the selected Developer to complete all post allotment obligations such as taking possession of project site and obtaining all statutory clearances of the State Government such as System Coordination and Techno Economic Clearance (SC & TEC), Forest Clearance, etc. within 12 months from the date of signing of the MoA.

Mandatory Statutory Clearance	Stipulated Timeline
✓ Ministry of Home Affairs	Withing 12 Months
✓ Ministry of Defense	
✓ Arunachal Pradesh State Pollution Control Board	
✓ Techno Economic clearance	
✓ Forest Clearance	
✓ Financial Closure	

Forest Clearance will be provided as per the timelines of the Forest (Conservation) Rules 2003 as per the timelines below.

Forest Clearance

Activity Level	Number of Days for Area in Hacters (Ha)			
	5 Ha	5- 40 Ha	40 – 100 Ha	> 100 Ha
Nodal Officer	10	10	10	10
DCF	30	30	45	60
District Collector				
CF	10	10	30	30
Nodal Officer/PCCF	10	10	25	30
State Govt	30	30	30	30
Transit Period	20	20	20	20
Total Days	110	120	160	180

Arunachal Pradesh has a High Level Selection Committee comprising of subject specialists to examine the proposals of the prospective developers and submit its observations to the State Government.

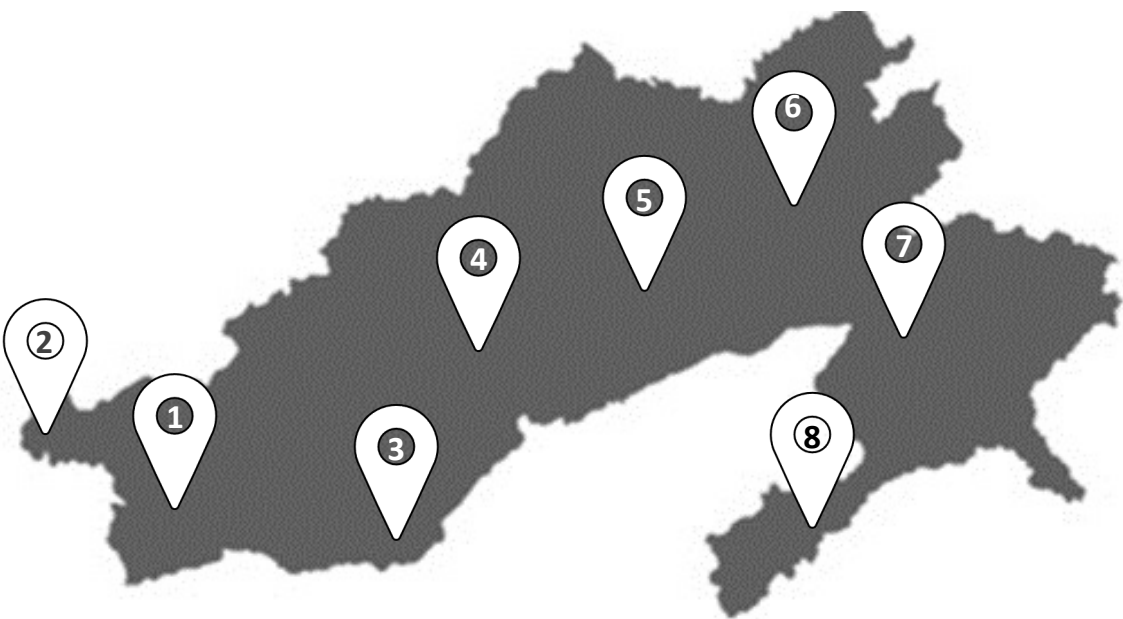
Selection Committee

If the project is found not feasible by the Standing Technical Committee of the State Government, upon mutual understanding with the developer, shall terminate the agreement and the upfront payment shall be refunded to the developer without interest.

Refund Mechanism for Small Hydro Projects

Arunachal

River Basin wise Hydropwer Projects in



	Name of River Basin	Proposed Capacity (MW)	Total No. of Projects	Available Projects (Approx.)
1	Kameng	6454	55	21+
2	Tawang	2791	13	3+
3	Dikrong	422.5	9	2+
4	Subansiri	11738	31	7+
5	Siang	18652.5	47	13+
6	Dibang	10093	18	7+
7	Lohit	7883.9	12	5+
8	Tirap	123	4	3+

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Commissioned Hydro-Electric Plants (HEPs)

4

Total HEPs Commissioned by Developers

Sl.	Developer	Name of Project	Capacity (MW)	Commissioning Date
1	NEEPCO Ltd.	Ranganadi St-I HEP	405	February 2001
2	NEEPCO Ltd.	Pare HEP	110	May 2018
3	Devi Engineers Pvt. Ltd.	Dikshi	24	September 2019
4	NEEPCO Ltd.	Kameng HEP	600	Unit I – June 2020 Unit-II – July 2020 Unit-III – January 2021 Unit-IV – February 2021
5	Small/Min/Micro Projects	Multiple	76.57	Multiple years

2,000
MW

Small hydropower potential of Arunachal

24+

Upcoming and under progress HEPs in Arunachal



Snapshots of Policy Support

Facilitate to obtain subsidies and tax concession from Government of India	Time bound Single Window Approval System for Multiple NOCs	Land for project shall be acquired by State government on behalf of project
Small Hydro - up to 50% share of Carbon Credit available under CDM	The import of capital equipment would be free of custom duties, as per Export Import Policy of India	Existing transmission system available for open access & wheeling of power

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Snapshots of Policy Support



Arunachal Pradesh Small Hydro Power Policy, 2007



Arunachal Pradesh Hydro Power Policy, 2008

Policy Type	Small Hydro Policy	Hydro Policy
Incentives	Indigenous tribal entrepreneurs exempted for supplying free power up to 5 MW	Income tax holiday of 10 Years for 350 MW + projects as per Gol's Mega Power Policy
Sale of Power	Government can enter into PPA at the tariff 10 paisa lower than determined by CERC/SERC	Mutually agreed PPA with State govt beyond the minimum free power
Free Power (Rate power after Moratorium period)	Projects up-to 1000 KW - Nil; Projects above 1 MW up-to 5 MW- 5%; Projects above 5 MW up-to 10 MW- 8%; Projects above 10 MW up-to 25 MW- 10%	The State Government shall also provide a matching 1% from its share of min 12% free power as recommended in the Government of India's Hydro Policy
Project Allocation	BOOT basis for 50 years	BOOT basis for 40 years



Arunachal

Project Allotment Processes

Fees for Small Hydro Projects

Project Capacity	Minimum Upfront Premium
25 MW-100 MW	Rs 1.50 Lakh per MW
101 MW-500 MW	Rs 2.50 Lakh per MW
501 MW-1000 MW	Rs 3.50 Lakh per MW
1001 MW-2000 MW	Rs 5.00 Lakh per MW
2000 MW and above	Rs 6.00 Lakh per MW

For Hydropower projects, the equity participation of the State, if any, shall not be less than 11 % and not more than 26%.

Fees for Small Hydro Projects

Category of Hydro Project		Processing fee	Minimum Upfront
Category I	Above 10 MW up to 25 MW	Rs. 50,000 per Project	Rs. 20,000 per MW
	Above 5 MW up to 10 MW	Rs. 35,000 per Project	Rs. 15,000 per MW
	Above 1 MW up to 5 MW	Rs. 25,000 per Project	Rs. 10,000 per MW
Category II	Above 100 KW up to 1000 KW	Rs. 15,000 per Project	NIL
Category III	Up to 100 KW	Rs. 10,000 per Project	NIL

Process of Allotment of Hydropower Projects

Projects with Capacity between 25-100 MW	<ul style="list-style-type: none">The State Government may award projects through a negotiated Memorandum of Agreement (MoA) routeNecessary enhancements will be allowed in case an awarded project's capacity as per DPR exceeds 100 MW
	<ul style="list-style-type: none">The State Government shall allot the projects through the bidding route on such criteria as it may decide in the interests of the State.The projects shall be developed on Build, Own, Operate and Transfer (BOOT) basis.Land for the project shall be acquired by the State Government on behalf of the project/SPV and allotted in the name of the project. The developer shall pay the cost of the land so acquired.The developer(s) of viable project(s) shall have to deposit non-refundable "Upfront Premium" including Processing Fees as stipulated hereunder:

Process of Allotment for Small Hydropower Projects

- Selection of developers shall be done based on the eligibility and qualification criteria as provided under the Arunachal Pradesh Small Hydro Policy 2007
- The selected developer shall deposit the Processing Fee and Upfront Premium at the time of signing of the Memorandum of Agreement (MoA) with the State Government
- The land required for construction of the project and other allied infrastructures shall be acquired and leased to the developer against payment of land revenue as per relevant tariff of the State Government. The period of lease will be continued till the BOOT period of the project.