



Department of Energy Ministry of Energy & Natural Resources

05 October 2026



Outline

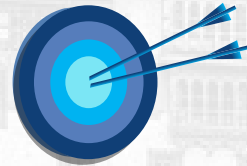
- **Vision & Mission**
- **Institutional Set-up**
- **National Energy Policies**
- **Renewable Energy Development**
- **DGPC and its Investment and Project Plans**

DEPARTMENT OF ENERGY



VISION

Energy security for economic prosperity, social progress and the wellbeing of Bhutanese.



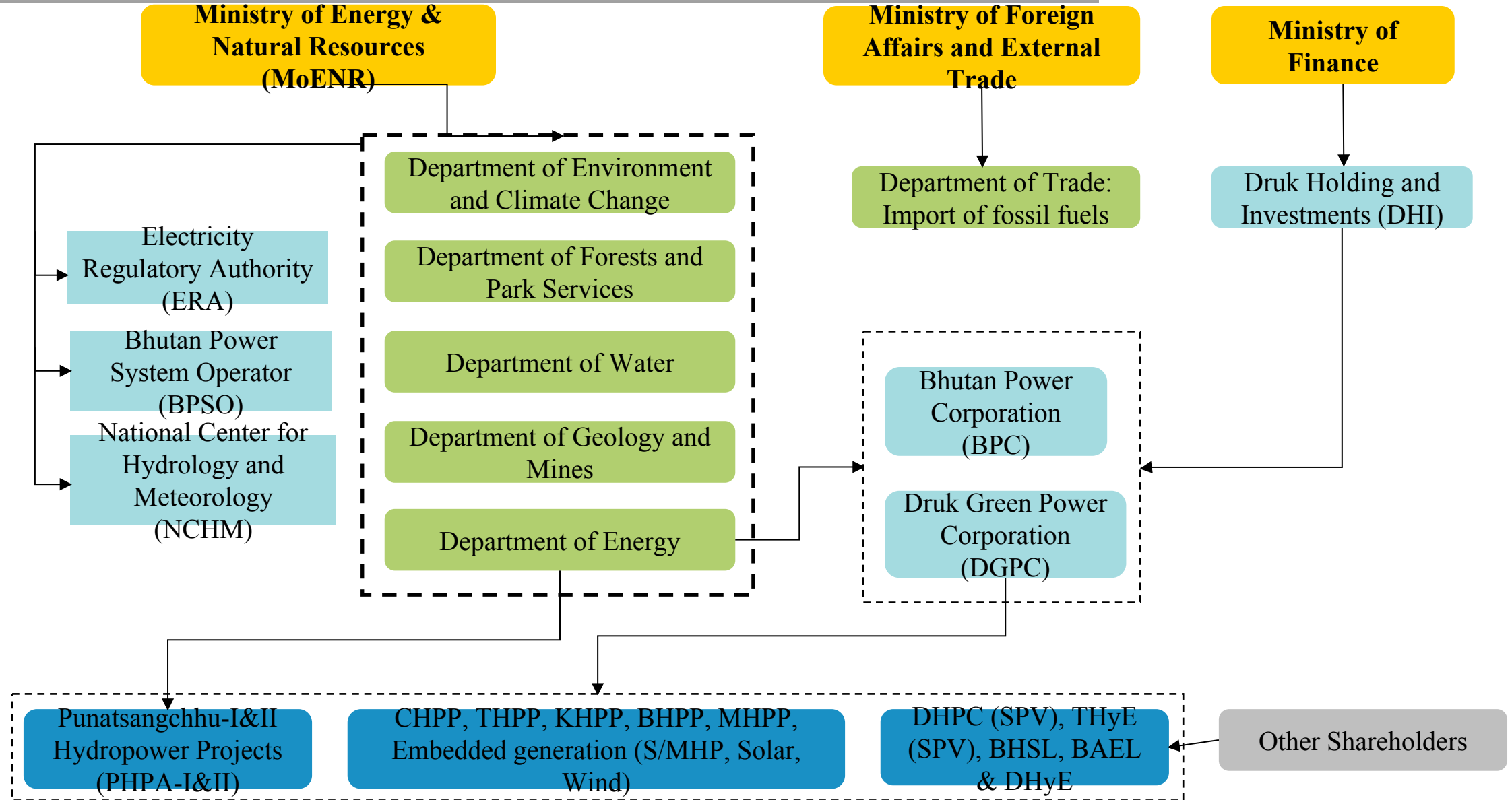
MISSION

Achieve energy security by harnessing green energy resources, and adoption of transformative and innovative technological solutions

Institutional Set-Up



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National Energy Policies



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- ❖ **Electricity Act of Bhutan (2001):** Foundational statutory baseline establishing legal separation between policy-making, independent regulation, and commercial operations.
- ❖ **Sustainable Hydropower Development Policy-2021 (revision of 2008):** Governs large hydro projects, joint venture investments, royalties, export terms, and environmental mitigation requirements.
- ❖ **Alternative Renewable Energy Policy-2013:** Dedicated legal pathways for independent power producers (IPPs) covering solar PV, utility wind, and green hydrogen integration.
- ❖ **National Energy Efficiency & Conservation Policy-2019:** Focuses on demand-side management to reduce domestic energy intensity. It lays out guidelines for energy auditing in industries, green building codes, appliance standards and labeling, and clean transportation initiatives
- ❖ **Domestic Electricity Tariff Policy-2016 :** Standardized price-setting mechanisms administered by the regulator to guarantee cost recovery and project bankability.
- ❖ **National Energy Policy-2025:** Approved in June 2025, this landmark umbrella policy consolidates and integrates previous sectoral policies into a single cohesive national strategy. It aims to support Bhutan's target of achieving a total installed capacity of 3 GW by 2040.

Masterplans & Roadmaps:

- ❖ Power System Master Plan-2040 (2003 revised)
- ❖ 2018 Updated National Transmission Grid Masterplan (2040)
- ❖ 2016 Renewable Energy Master Plan (2032)
- ❖ 2019 Energy Efficiency Roadmap (15yrs)
- ❖ National Green Hydrogen Roadmap-2024)
- ❖ Renewable Energy Development Roadmap-2024
- ❖ National Solar Energy Roadmap-2024



Renewable Energy Development



DRUK GREEN POWER CORPORATION

COMPANY OVERVIEW

**DGPC is a Wholly Owned
Subsidiary of DHI**

**Only Renewable Energy Generation Utility of
Bhutan**

Turnover of Nu. 20,000 million (*excluding PHP-II*) USD 222 Million and Net Worth of Nu. 76,000 million (USD 850 Million)



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DrukGreen

VISION

**To Promote, Develop and
Manage Renewable Energy
Resources Efficiently and
Sustainability for a Resilient
Future**

Installed Generation Capacity



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SN	Power Plants/Projects	Installed Capacity (MW)	Commissioning Year
1	Embedded Generation (micro/mini hydro + wind + solar)	9	1967 onwards
2	Chhukha	336	1986-1988
3	Kurichhu	60	2001-2002
4	Basochhu Upper Stage	24	2001
5	Basochhu Lower Stage	40	2004
6	Tala	1,020	2006-2007
7	Dagachhu	126	2015
8	Mangdechhu	720	2019
9	Nikachhu	118	2024
10	Punatshangchhu-II	1,020	2025
11	Sephu (Solar)	22	2025
12	Suchhu	18	2025
13	Burgangchhu	54	2026
14	Yungichhu	32	2026
	Total	3,599	

Run-of-River hydropower plants:
Winter generation is limited to 20-25% of installed capacity



Hydropower Under Construction



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Small Hydropower Projects (195.5 MW)

S.N	Projects	Capacity (MW)	Completion Year
1	Druk Bindu I&II	26	2027
2	Begana HP	25	2028
3	Gamri-I HP	54	2028
4	Jomori HP	90	2028
5	Lunana	0.50	2028

Large-Mega Hydropower Projects (3,495 MW)

S.N	Projects	Capacity (MW)	Completion Year
1	Punatsangchhu-I	1200	2031
2	Khorlochhu HP	600	2029
3	Dorjilung HP	1125	2031
4	Wangchhu HP	570	2031



DGPC Portfolio Companies

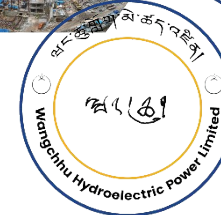


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Generation



Construction



Reclamation & Manufacturing



Automation Systems



SOLAR SERVICES



O&M SERVICES



DRUK GREEN CONSULTANCY SERVICE

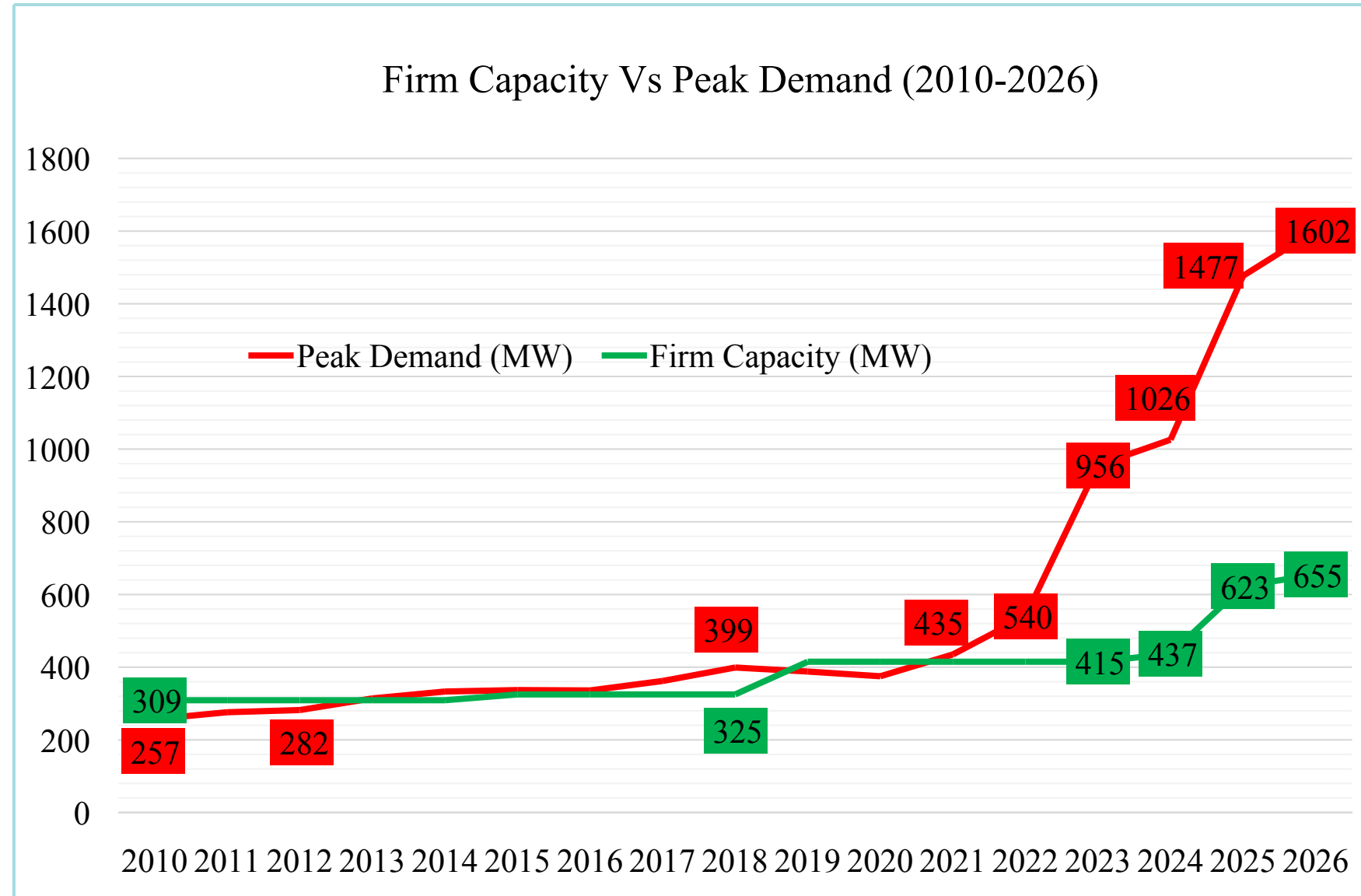


HYDROPOWER RESEARCH &
DEVELOPMENT CENTRE

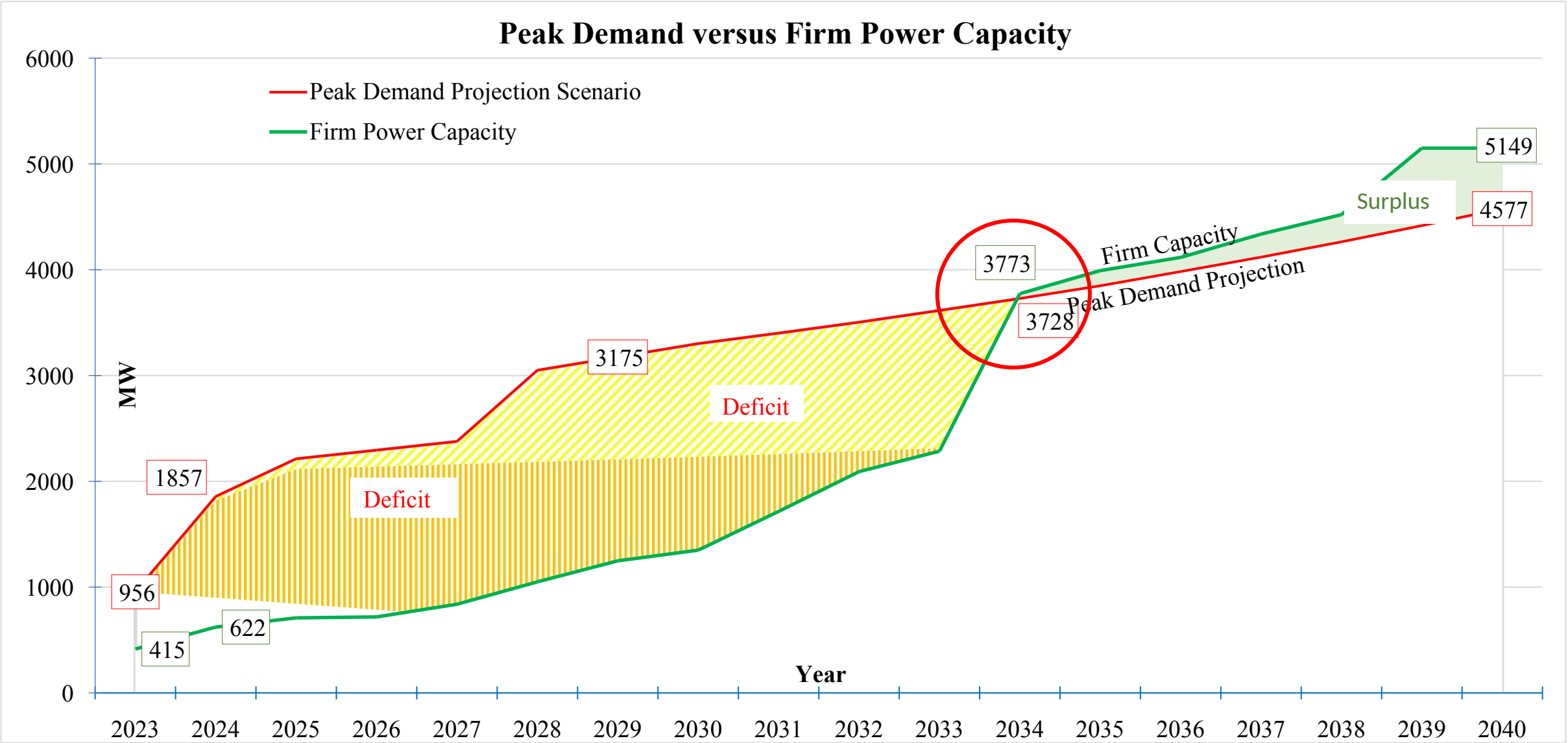


Generation & Domestic Demand Trends over last 17 Years

Peak demand outpaced firm power availability resulting in winter energy imports from India starting 2022



Supply-Demand Projections (2024-2040)

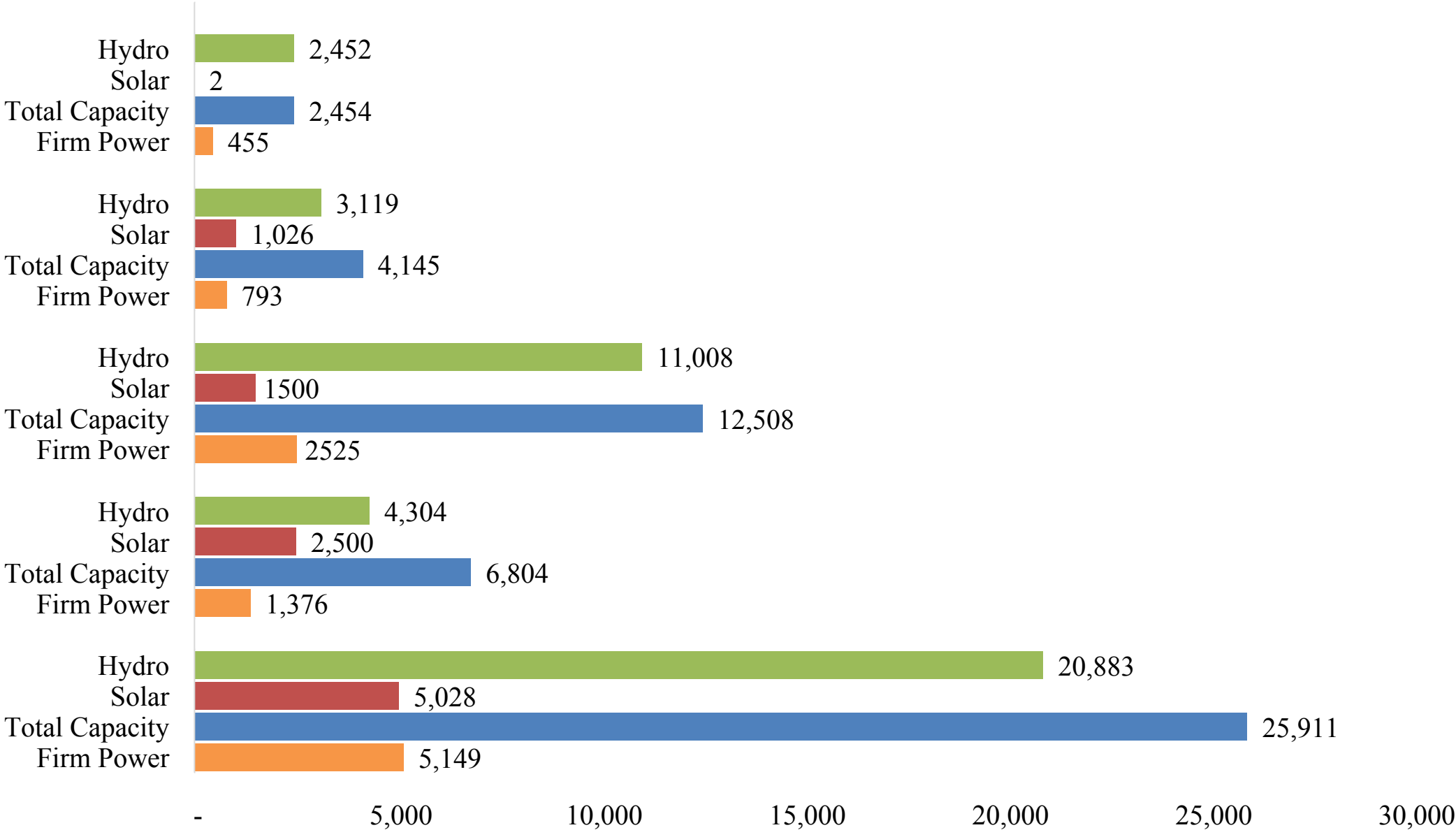




Capacity and Firm Power Addition (MW), 2024-40



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DGPC Partnership

DGPC has executed MoUs covering more than 17 GW (Hydro + Solar)

Partners include:

- GAR
- adani Power
- PTC India
- SITRON Power
- LUMORA VENTURES
- greenko
- JSW
- TATA POWER
- Sosian Energy Limited
- PARAG ENERGY
- DATTA INFRA
- GERAB NYED-YON
- HALO RENEWABLE ENERGY
- WEC
- K water
- TashiCell
- State Emblem of India

Financiers & Insurance Companies

Partners include:

- THE WORLD BANK
- IFC (International Finance Corporation)
- European Investment Bank
- ADB (Asian Development Bank)
- OPEC FUND
- SBI (State Bank of India)
- India Exim Bank
- REC (Rajasthan Electricity Corporation)
- TOBANK
- BANK OF BHUTAN
- Bhutan National Bank
- REINSURANCE CO. LTD.
- Other international financial institutions and insurance companies.

Shareholders Agreement (SHA) Executed/Under Discussions

Partners include:

- adani Power
- TATA POWER
- GAR
- JSW
- CR
- TashiCell
- DATTA INFRA
- GERAB NYED-YON
- State Emblem of India

Collaboration

Equity Investment

Up to maximum of 49% for hydropower & up to 74% for Solar Projects

Debt Financing

Financing of non-recourse project debt
financing at competitive rates

Debt Syndication

Lender Technical Advisor

Lender Legal Advisor

Lender Insurance Advisor

Power Off-take

Power off-take
arrangement

Technical Services

Project studies (DPR), Construction, Consultancy,
Supply and Other Services

Legal Services

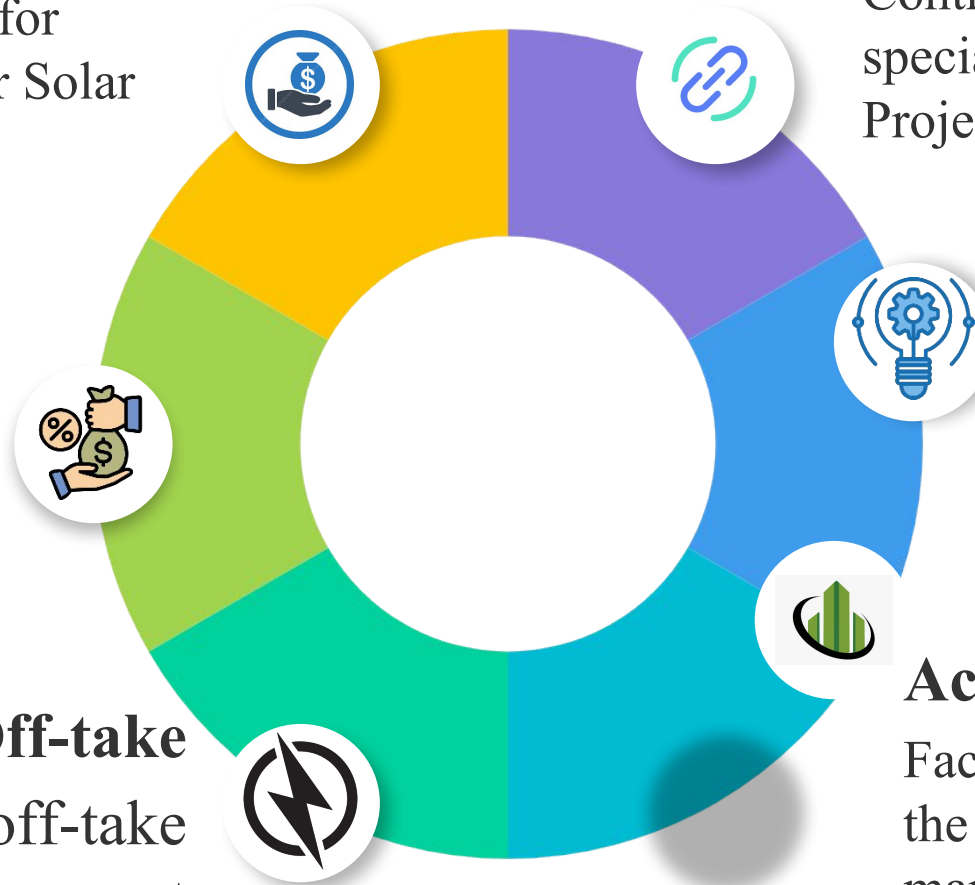
Contracting, Dispute resolution to
specialized services for Investment &
Project Financing

Financial Services

Financial, Auditing &
Assurance Services
Insurance
Credit Rating Services

Access to Capital Markets

Facilitate to source financing from
the domestic and international capital
markets - **Brokerage service for the
Capital Market**



SOLAR
RELIABLE HYDROPOWER
SECURITY SOCIO-ENVIRONMENT SUSTAINABLE
CLEAN ENERGY AFFORDABLE WIND
PEOPLE PROSPERITY GREEN HYDROGEN
INNOVATION PROGRESS

Thank You

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