Electricity Subsidies in India and its impact on distribution company finances

Analysis based on study of subsidy trends in six states

Webinar based on :

Elephant in the Room: Implications of subsidy practices on DISCOM finances

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Webinar presentation by Ann Josey and Maria Chirayil Q&A by Ann Josey and Shantanu Dixit Moderation by Nikita Das

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Prayas (Energy Group)



Scope and Nature of Study

- •State-level observations only to highlight major trends :
 - Links between subsidy provision and DISCOM finances
 - Varied practices in subsidy provision and regulatory accountability
 - Major trends over a decade highlighted
 - Focus on Gujarat, Haryana, Punjab, Tamil Nadu, Uttar Pradesh and Bihar

- Does not focus on:
 - De facto processes for deciding subsidy
 - Subsidy impact on state exchequer
 - Agricultural subsidies , unmetered demand

Vexed issue with multiple dimensions → need for a better understanding Especially while contemplating major reforms in the state sectors

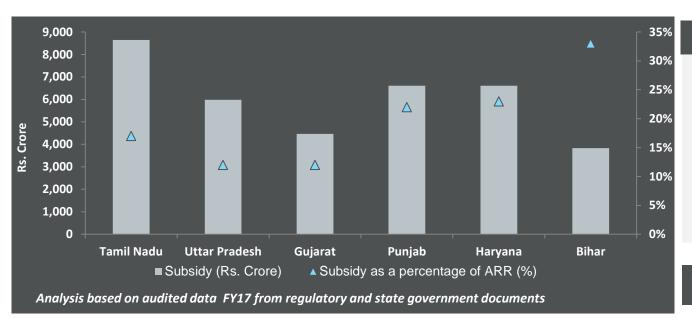


Outline

- Nature and extent of subsidies
 - Growing dependence on subsidies
 - Major consumer categories receiving subsidies
 - Trend towards broad-basing of subsidies
 - Tariff, subsidy design in the face of shrinking cross subsidies
- Delay in subsidy payments and its implications
 - Need for commitment and payment of subsidies
 - Impact of delays on DISCOM finances
 - Measures to ensure accountability for timely payments and their effectiveness
- Lack of consistent data on subsidies
 - Highlights from reporting practices
- Some ideas to address highlighted issues



Growing dependence on subsidies



Revenue gap (Expenses-Revenue) for FY17	Tamil Nadu	Uttar Pradesh	Gujarat	Punjab	Haryana	Bihar
Revenue gap after accounting for subsidy	4,772	3,521	1,237	4,571	996	1,633
↑ in revenue gap in the absence of subsidy	3x	3x	5x	2x	8x	3x

Subsidy dependence high

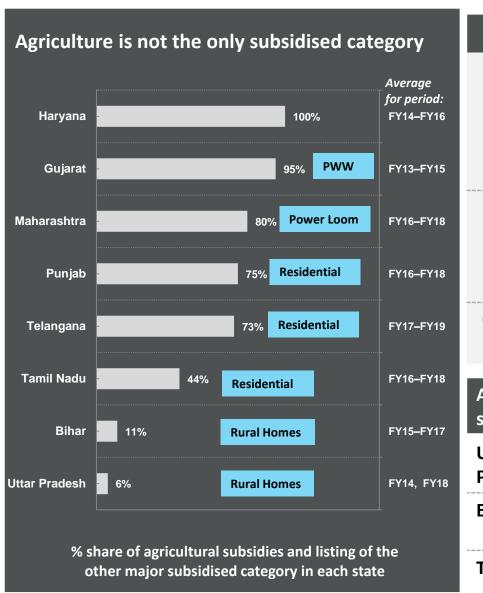
- Subsidy paid → 10 to 30% of DISCOM Aggregate Revenue Requirement (ARR)
- Rising at a rate of 11% per annum in 5 states

Will grow in the future with:

- Increase in cost of supply, already > Rs. 7/unit , ↑ at 6% per year
- Millions of newly electrified consumers needing affordable power
- \[
 \in cross subsidy with larger consumers finding alternative supply options
 \]



So, who are subsidised?





Broader base, rising commitments

- Rising share of subsidies to residential consumers
 - Punjab: Free power for up to 200 units per month since FY11.
 - Tamilnadu: All residential consumers (even if using > 500 units), receive 50 units free
 - Haryana: Since FY19, residential subsidy for up to 150 units
 - Bihar: BPL sales have tripled in 3 years due to electrification
- Growing trend to subsidise industrial and commercial consumers
 - **Punjab**: Cap industrial energy charges at Rs. 4.99 per unit \rightarrow > 16% of total subsidies
 - Bihar: Subsidy for industrial and commercial consumers in FY18
 - Gujarat: Rs.2-3/unit subsidy for new textile industrial units
 - Haryana: Rs. 2/unit subsidy for new small and medium industries since FY18
- Subsidies due to increase in overall losses or tariffs
 - Bihar: To finance power purchase costs in excess of T&D loss norms (FY12 to FY17)
 - Bihar and Uttar Pradesh: To finance operational losses with government subsidy
 - Gujarat and Bihar: Subsidy to all to avoid tariff hike due to levy of fuel surcharges



Tariff, subsidy design in the face of shrinking cross subsidies

'Additional Subsidy' deemed by the Regulator in Uttar Pradesh

- No cross subsidy since FY 08 for agriculture and rural domestic consumers
- ERC: unrecovered cost would be financed by State Govt. → additional subsidy
- State government: not committed to pay and is unlikely to pay
- From FY08 to FY17 → Rs. 32,000 Crores w/o carrying costs , ~60% of debt under UDAY

No cross subsidy for agriculture in Haryana:

- Subsidy alone at Rs. 7.1/unit and at Rs. 7,000 crores per year
- How sustainable is this with growing costs and competing budgetary needs?

Increase in subsidy to meet tariff increase in Tamil Nadu:

- Even 50% and 600% tariff hikes fully met with growth in subsidy
- Subsidy has increased by 34% between FY12 and FY17

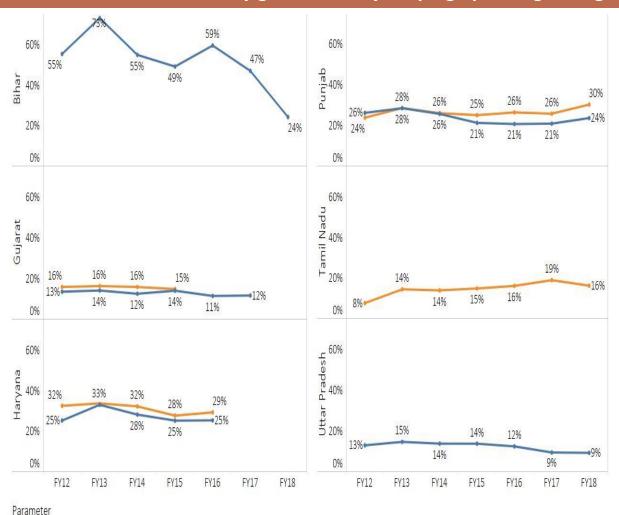
Subsidy disincentivises metering in Gujarat

- Unmetered consumers charged more tariffs by ERC to incentivise metering
- With subsidy, metered tariffs at par with unmetered → removing any incentive



Need for commitment and payment of subsidies

Subsidy growth barely keeping up with growing DISCOM costs



■ Subsidy promised as a % of ARR*

■ Subsidy Paid as a % of ARR

- Proportion of subsidy falling in 4 states
 - Growth in ARR: 16%
 - Subsidy growth: 11%
- Tamil Nadu and Punjab are exceptions w.r.t subsidy promised
- Contribution falling in Punjab with subsidy paid
- Widening gap between subsidy promised and paid
- Delays persist despite mandates and affect DISCOM finances



What mandates? What impact on DISCOM finances?

Section 65 of Electricity Act 2003

- Mandated advance payment of subsidy
- Allowed charging unsubsidised tariff in case of delay

To cope with strain in working capital, DISCOMs:				
•	Borrow → increase in short-term			
	liabilities			
•	Reduce expenses on operation and			
	maintenance			
•	Unable to ensure supply quality			
	especially in newly electrified areas			

State	Impact of delays or shortfall in subsidy
Gujarat	13% shortfall (FY10 to FY15), comparable to DISCOMs' regulated working capital requirement.
Haryana	Cumulative outstanding subsidy+ interest in FY14 → Rs. 4,334 Crore.
Punjab	Pending payments + interest at Rs. 13, 700 Crores in FY19

Rising liabilities → increased debt burden → more bailouts

- Lack of timely subsidy payments identified as a major driver of DISCOM debt
 - Shunglu committee report, Financial Restructuring Plan
- Timely payment could have avoided the interest burden, provided clarity



Accountability for timely payments

Punjab

- $-ERC \rightarrow$ accounts for pending subsidy + interest with next year subsidy commitment
- Good practice: interest cost borne by State Govt. deters non-payment
- Not very effective → Given delays since FY 14, PSERC directed DISCOM to:
- Provide information on subsidy paid and due fortnightly(implemented)
- Charge consumers unsubsidised tariffs when subsidy is not provided (infeasible)

Bihar

- Tariff announced without subsidy declaration → subsidy paid monthly (Since FY18)
- In case of delay, regulated tariffs to be charged
- Could result in 400% \uparrow in tariffs \rightarrow build-up of arrears, AT&C loss, disconnection.
- Politically infeasible → Discoms continue to suffer financially with delays

Lack of consistent data on subsidies

Parameter (Rs.Crore)	Bihar	Gujarat	Haryana	Punjab	Tamil Nadu	Uttar Pradesh
Subsidy promised						
Subsidy paid				V V	V V	
Outstanding/Pending payment						
Interest payments due to delay						
Category-wise subsidy						
Legend	Centra	Govt tracking	State Govt d	ocuments	Regulatory docum	nents

- No tracking on Ujwal DISCOM Assurance Yojana portal
 - Despite commitment to financial turnaround, subsidy payments and delays not tracked on UDAY portal
 - Working capital borrowings also not tracked
- Limited tracking in Power Finance Corporation (PFC) reports on utility finances
 - Information on category-wise subsidies, impact of delay in payments not reported

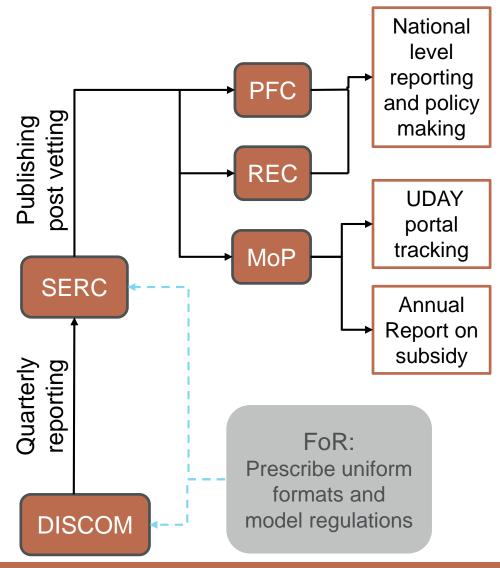
Reporting practices

- Data reported by PFC not consistent with DISCOM reporting to ERCs, CAG
 - Gujarat: PFC Rs. 1,100 Crore, CAG Rs. 3,000 to 5,000 Crore (FY13-FY15)
 - Maharashtra: PFC -no subsidy, Regulatory documents: Rs. 11,000 Crore (FY15)
 - Tamil Nadu and Uttar Pradesh: 24% to 60% variation in reported data in FY15
- Reporting by ERCs better than other agencies but lacunae persist
 - Delays and pending payments not captured systematically.
 - Subsidy to write-off arrears affects receivables but not reported
 - Subsidy quantum to many categories not captured systematically:
 - Uttar Pradesh, Bihar: Power loom, Gujarat: Primary schools, Textile industry, Haryana: Residential and Industrial subsidy
- Good practices by SERCs which can be adopted
 - Punjab: Subsidy paid, delay in payment and interest costs reported and trued-up
 - Tamil Nadu: ERC releases an annual subsidy order → category-wise subsidy



Some ideas to address highlighted issues

Limited Data Reporting



- DISCOMs to report information regarding payment, delays, and breakup of subsidy on a quarterly basis to SERCs for vetting
 - Post vetting, information can be used by PFC, REC,CAG, MoP etc.
- MoP to release annual report on subsidies (similar to RBI report on state finances)
- Forum of Regulators to prescribe uniform formats and model regulations to standardise reporting
- To ensure adoption of reporting formats by SERCs → amendment of Sec 65, E Act 2003

Some ideas to address highlighted issues

Limited accountability:

- Current year subsidy commitment to include pending payments and interest costs, as accounted for by **Punjab ERC**
- Delay in subsidy payments and working capital borrowings of DISCOMs to be tracked on UDAY portal
- UDAY scheme limits working capital borrowing to 25% of ARR
 - Limit can be reduced over time (1 p.p per year for 5 years)
 - Will pressure state government to ensure timely payments

Rationalising and targeting of subsidy:

- Need for calibrated approach which pays attention to state level details
- Phase-wise, inflation linked tariff increase for subsidised consumers
- Some ideas can be tried on a pilot basis:
 - Direct Benefit Transfer
 - Bulk efficient appliance procurement for newly electrified homes

Without such efforts, subsidy commitments and delays will increase, leaving DISCOMs to face a crisis unmanageable in scale

THANK YOU

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