

















## FINANCIAL VIABILITY OF DISCOMS



**V. Packirisamy**  
Executive Director (Entity Appraisal)  
Power Finance Corporation Limited



# Distribution Sector - Key Highlights

Particulars		2021-22	2022-23	2023-24
PAT (₹ crore)		(27,228)	(59,497)	(25,553)
Tariff Subsidy as % of Total Revenue		17.8	17.56	20.21
Tariff Subsidy Received as % of Billed		109.7	108.6	97.4
ACS (₹./kWh)		6.28	7.08	7.09
ARR on Subsidy Received excluding Regulatory Income and UDAY Grant (₹/kWh)		6.19	6.58	6.90
Gap on Subsidy Received excluding Regulatory Income and UDAY Grant (₹/kWh)		0.10	0.50	0.19
Billing Efficiency (%)		86.08	86.98	86.91
Collection Efficiency (%)		97.45	97.60	96.51
AT&C Loss (%)		16.1	15.1	16.1
Receivables (₹ crore)		2,44,363	2,49,700	2,66,429
Receivables (Days)		138	115	115
Payables (₹ crore)		2,87,826	2,75,406	2,90,794
Payables (Days)		168	129	132
Net Worth (₹ crore)		(1,03,056)	(1,51,483)	(1,73,365)
Surplus/(Deficit)		(5,93,528)	(6,45,728)	(6,92,269)
Total Borrowings		6,15,729	6,84,836	7,52,677



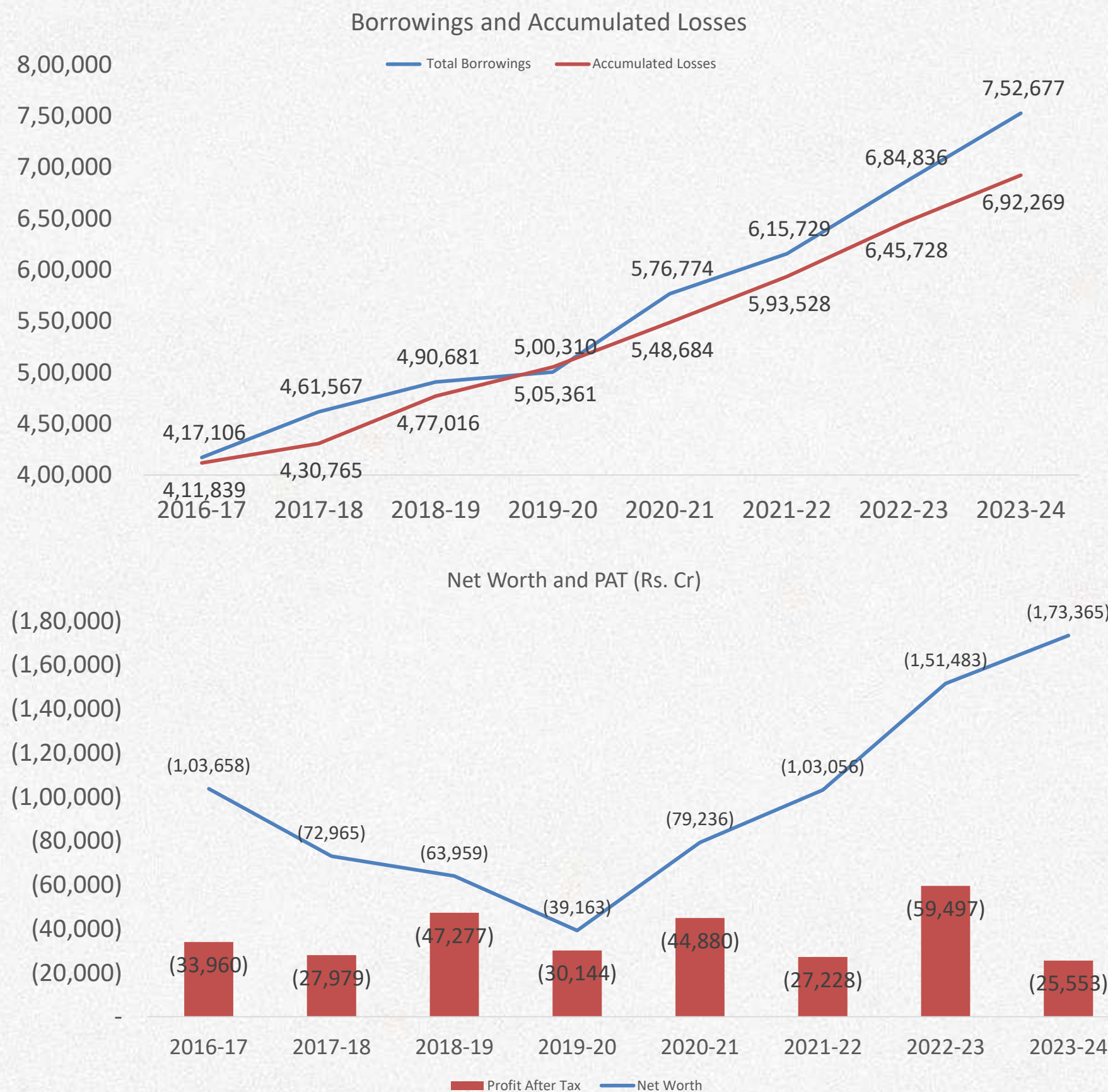
## Performance FY24: Financial Losses Narrow, yet Operational and Structural Stress Remains

<b>Profit After Tax</b> <b>₹-25,553 croreFY 24</b> <i>vs. ₹.-59,407 crore in FY23</i> <i>Indicates moderation of losses</i> <i>FY25: Profit ₹2701 Crore.</i>	<b>AT&amp;C Losses</b> <b>16.1%</b> <i>Efficiency backsliding despite financial optical improvements</i> <i>FY25:15.04%</i>	<b>Subsidy Dependence</b> <b>20.2% of Revenue</b> <i>Growing Reliance on Budgetary Support</i>
<b>ACS-ARR Gap</b> <b>₹ 0.19/kWh</b> <i>Vs 0.50/kWh in FY23</i> <i>partial recovery in cost coverage</i> <i>FY25: ₹0.06/kWh</i>	<b>Collection Efficiency</b> <b>96.5%</b>	<b>Net Worth</b> <b>₹ -1.73 lakh crore</b>
<b>Receivable Days: 115 days</b> <b>Payable Days: 132 days</b>	<b>Billing Efficiency</b> <b>~87%</b>	<b>Total Borrowings</b> <b>₹ 7.53 lakh crore</b>

**Cash-flow metrics and operating gap improved, but the sector remains structurally weak, with rising subsidy dependence and continued balance-sheet erosion.**



## Borrowings, Losses and Net Worth



• **Debt and losses:** Sector borrowings increased **80%** vs **68%** rise in accumulated losses- linkage between accumulated losses and incremental debt

• **Post-FY21 trend:** From FY20-21 onward, **borrowings grew faster than losses**, reflecting reform-linked liquidity schemes (LIS, LPS, RBPF).

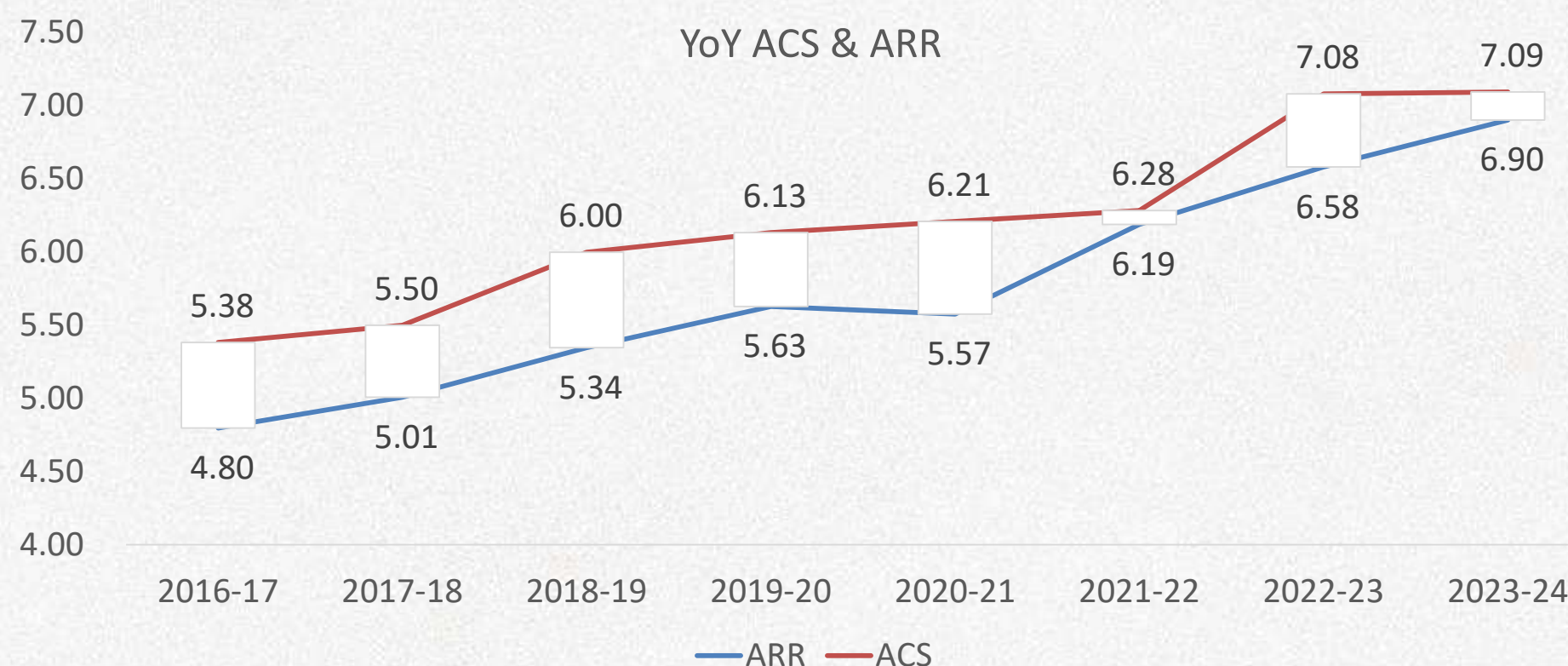
• **Borrowings due for repayment within the next year** (represented by Short Term Borrowings and Current Maturities of Long Term Borrowings), have risen as a proportion of total borrowings over the period.

• **Aggregate net worth was –₹1.73 lakh Cr (2023-24). 24 utilities have negative net worth as at end of FY 2023-24. 29 Utilities have incurred PAT losses in FY 2023-24.**

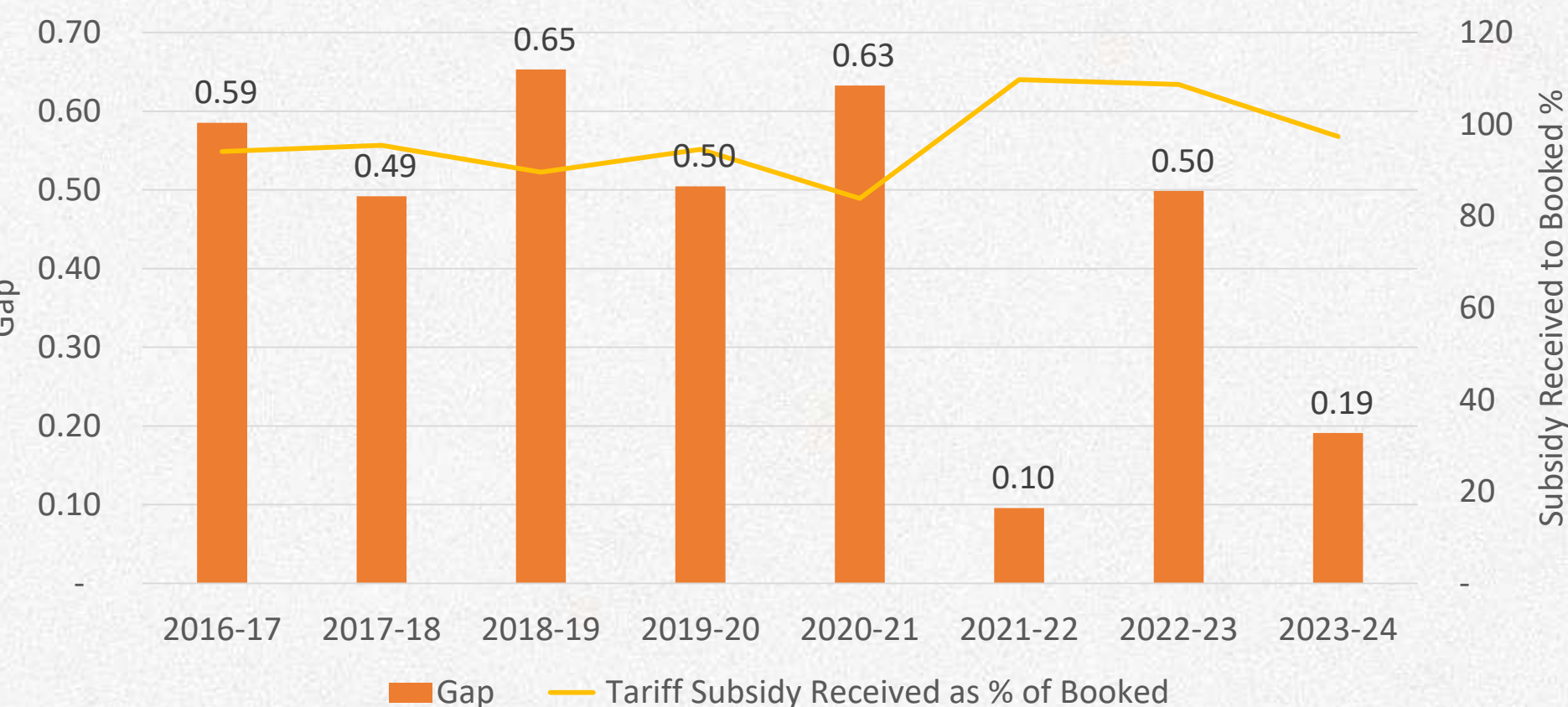
• **Profitability is volatile:** Power procurement costs (coal, short-term markets) remain the single largest swing factor in annual PAT volatility.



## ACS-ARR Gap (₹/kWh)

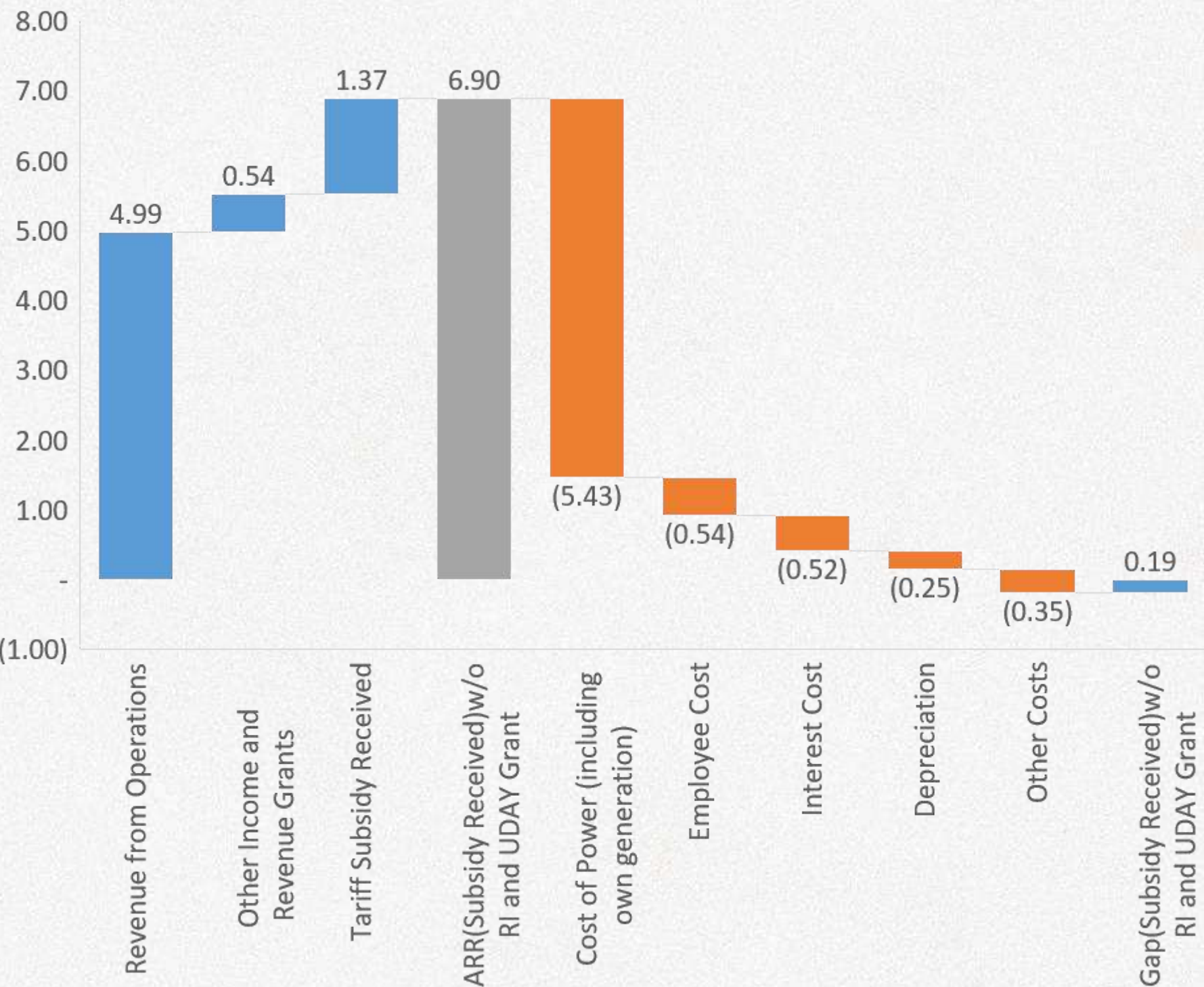


- The ACS–ARR gap has narrowed significantly over the period, declining from a peak of ₹0.65/unit (FY19) to ₹0.19/unit (FY24).
- FY22 appears to mark an important turning point, when the gap reduced sharply to ₹0.10/unit, supported by stronger subsidy flows and post-COVID fiscal measures.
- Year-to-year movements in the gap continue to reflect cost conditions, with the widening in FY23 (₹0.50/unit) largely linked to elevated power procurement and coal prices rather than any weakening in tariff efforts.
- Subsidy realization plays a meaningful role in gap outcomes:
  - Lower realization (below ~90%) until FY21 coincided with higher gaps.
  - Higher realization (above 100%) in FY22–FY23 supported gap compression.
- FY24 subsidy realization (~97%) remains supportive, helping sustain the improvement, even though a small gap persists.
- Overall, revenue recovery is on a strengthening path, though ARR still benefits from continued and timely subsidy support which is required to maintain this progress.





# ACS-ARR Gap-FY24(₹/kWh)

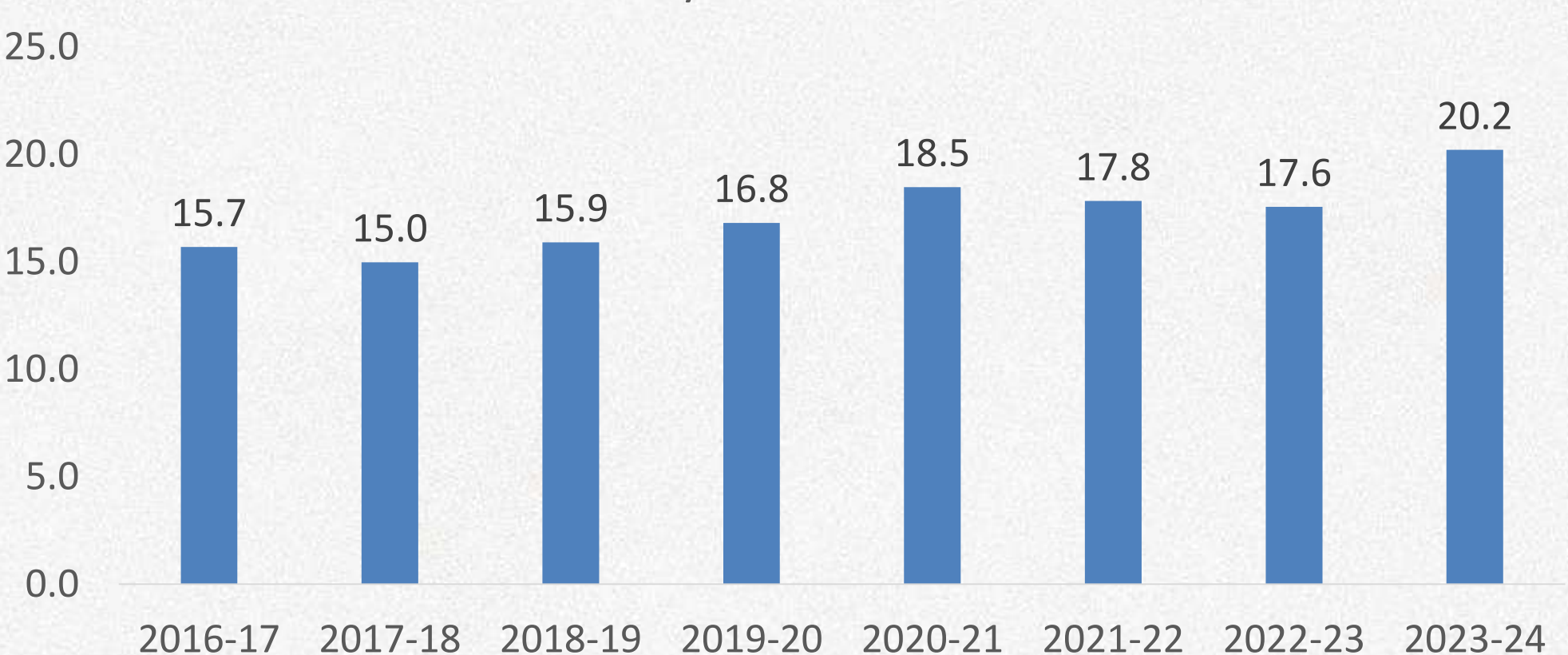


- Power purchase as the single largest determinant of financial viability:**
  - Power cost of ₹5.43/unit represents ~77% of total ACS (₹7.09/unit).
  - Power cost is also ~79% of total ARR, indicating strong sensitivity of sector economics to power procurement and fuel cost movements.
- Rising role of tariff subsidy:**
  - Subsidy constitutes ~20% of total ARR, highlighting the sector's exposure to State Fiscal Health.
- Gap in FY24 varies** from ₹. 1.75/kWh to surplus of ₹. 1.16/kWh (Excluding PDs).
- 36 Utilities have gap in FY24, while 28 utilities have surplus.
- Utilities with persistent high gap: TN, JdVVNL(Rajasthan), Telangana, DVVNL & PuVVNL (UP), Meghalaya
- Utilities with consistent surplus: NPCL(Noida), TPDDL (Delhi), Gujarat, Haryana

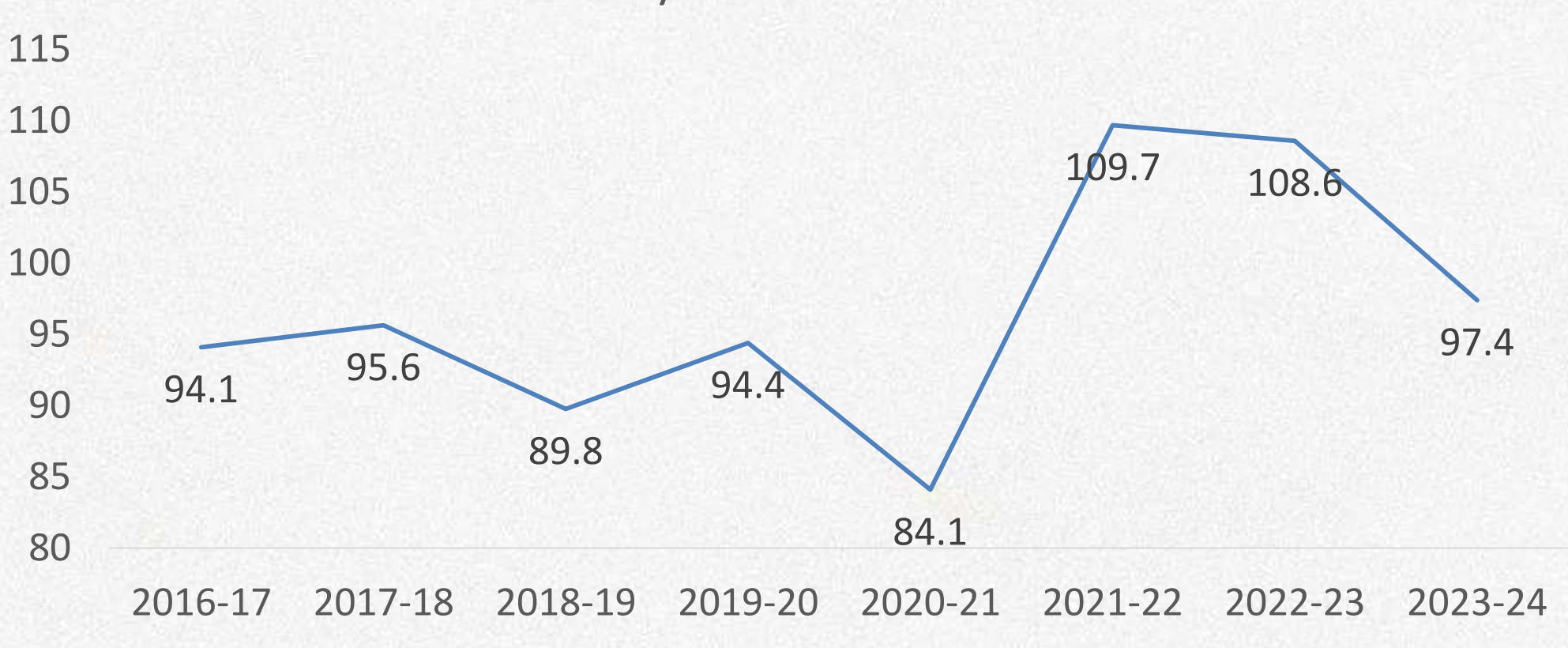


# Tariff Subsidies

Tariff Subsidy as % of Total Revenue



Tariff Subsidy Received as % of Booked



•**Sharp growth in tariff subsidies:** Tariff subsidy *booked* more than doubled from ₹82,696 Cr (FY17) to ₹2,10,784 Cr (FY24), reflecting rising dependence on budgetary support to bridge revenue gaps.

•**Rising revenue reliance on subsidies:** Tariff subsidy as a share of total revenue increased from ~16% in FY17 to over **20% in FY24**, indicating growing structural dependence rather than transitional support.

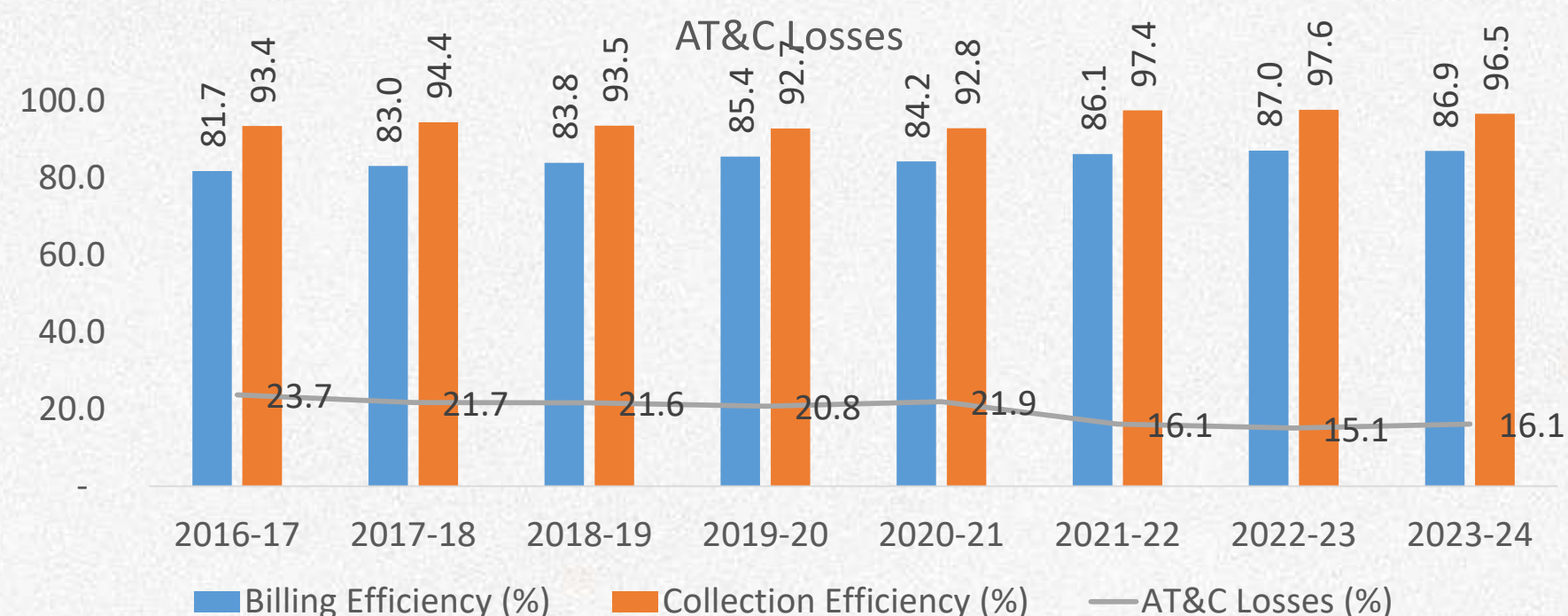
•**Receipts broadly track bookings, but with volatility:** Subsidy *received* increased from ₹77,814 Cr to ₹2,05,300 Cr, though year-to-year alignment with bookings has been uneven.

•**COVID period stress evident:** FY21 saw the weakest realization, with receipts at only **83.8% of booked**, increasing liquidity pressures for discoms.

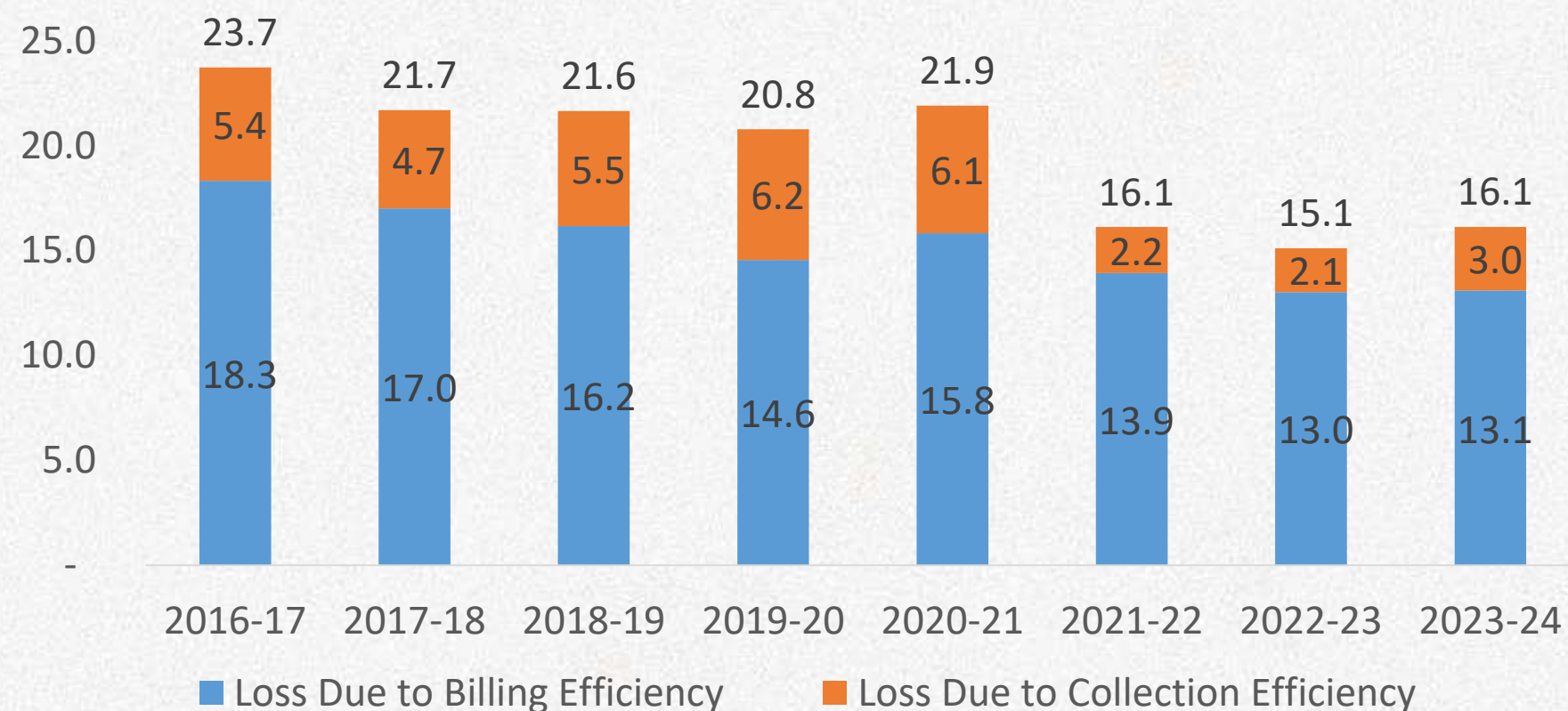
•Improvement in subsidy realization supported by **RDSS, Addl Prudential Norms**



## Aggregate Technical and Commercial (AT&C) Losses



Movement in AT&C Losses



- National AT&C losses declined from about **23.7% in FY17 to 16.1% in FY24**, a reduction of roughly **7.6 percentage points**, with the pace of improvement moderating after FY22.

- **Collection efficiency nearing saturation levels**, while incremental gains in billing efficiency have been relatively gradual.

- Over the period, **billing efficiency improved by ~5.2 percentage points**, and **collection efficiency by ~3.1 percentage points**. Overall, around **65–70% of the reduction in AT&C losses** has been supported by improvements in billing efficiency.

- Most utilities now report **billing efficiency in the 90–95% range**, with several achieving **near-universal collection levels (~99–100%)**, including Gujarat, Delhi, Kerala, Himachal Pradesh, and Tamil Nadu.

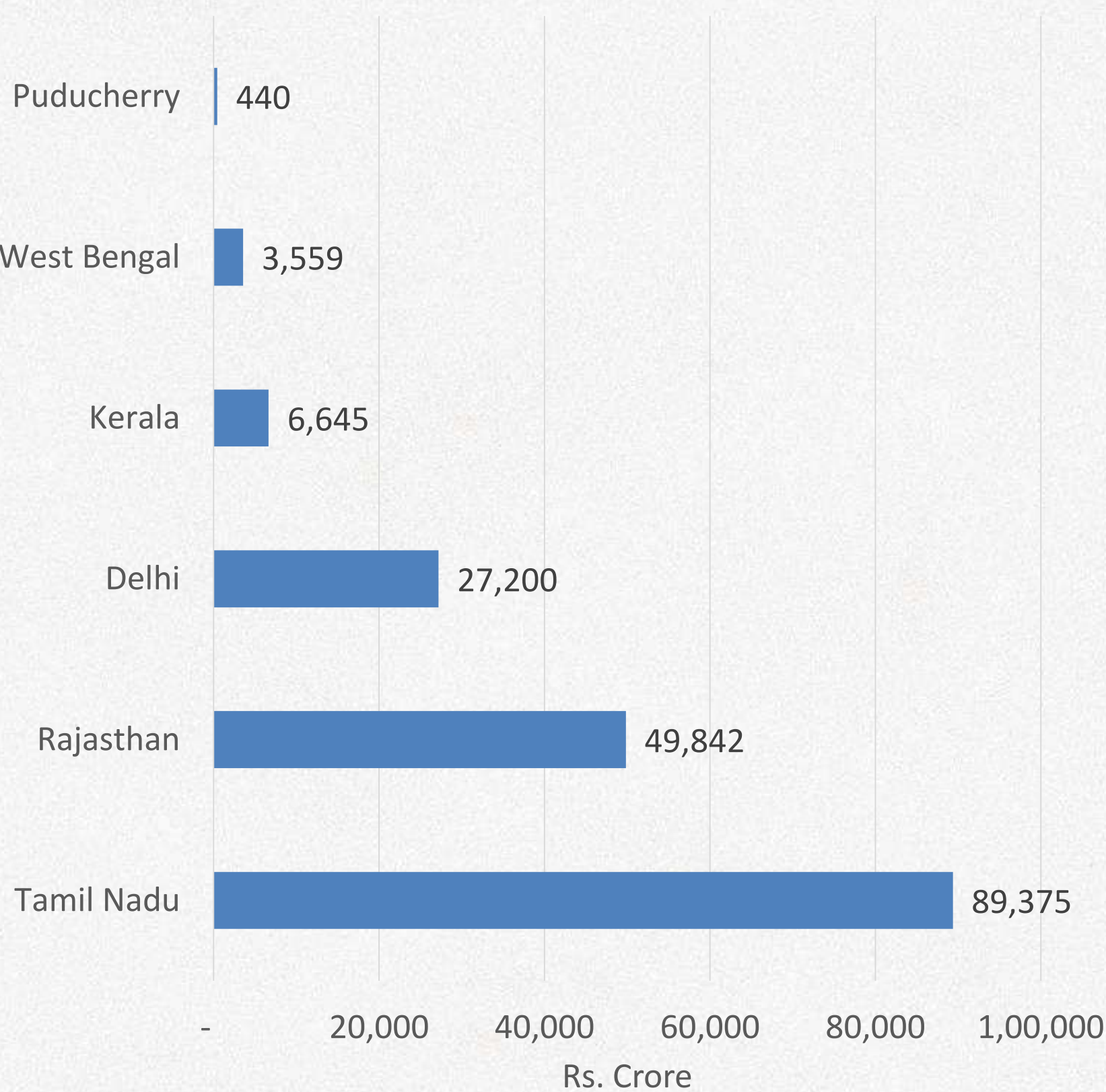
- Some states continue to record **elevated AT&C losses (above ~40–50%)**, largely reflecting **lower billing efficiency**, indicating scope for continued strengthening of metering, network, and loss-monitoring practices.

- Several high-loss states have delivered **substantial reductions over time**, including Bihar, West Bengal, Haryana, and Odisha, with future progress likely to depend on sustaining operational and feeder-level improvements.

- **With collection efficiency already near saturation (~96–99%), a further 1 pp improvement in collections yields <0.2 pp AT&C impact**, whereas a 5 pp improvement in billing efficiency can deliver **~4–5 pp AT&C reduction**—clearly defining the next reform priority.



# Regulatory Assets (FY24)



•The **accumulation of regulatory assets** continues to be a major financial challenge for DISCOMs and Power Departments.

•RAs directly impact **cash flows, leverage, and creditworthiness**, as utilities must borrow working capital to fund unrecovered costs

## JUDGEMENT OF HON'BLE SUPREME COURT

•**Mandatory Liquidation:** All SERCs must liquidate existing accumulated regulatory assets within a maximum period of 4 years, starting from April 1, 2024.

•**Timeline for New Assets:** Any new regulatory assets created must be liquidated within a strictly defined period of 3 years.

•**Cap on Accumulation:** Regulatory assets are now capped and must not exceed 3% of a distribution utility's Annual Revenue Requirement (ARR).

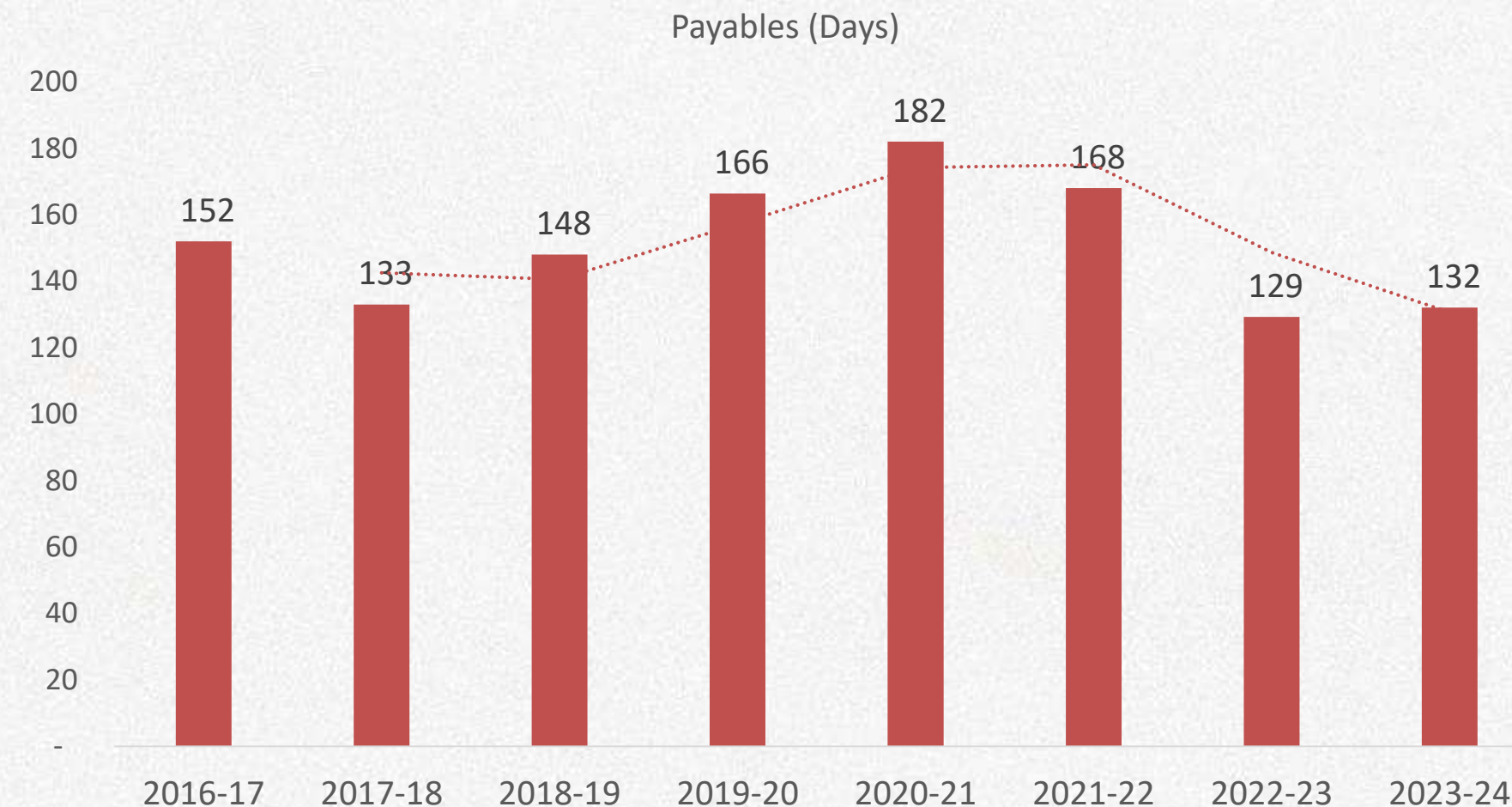
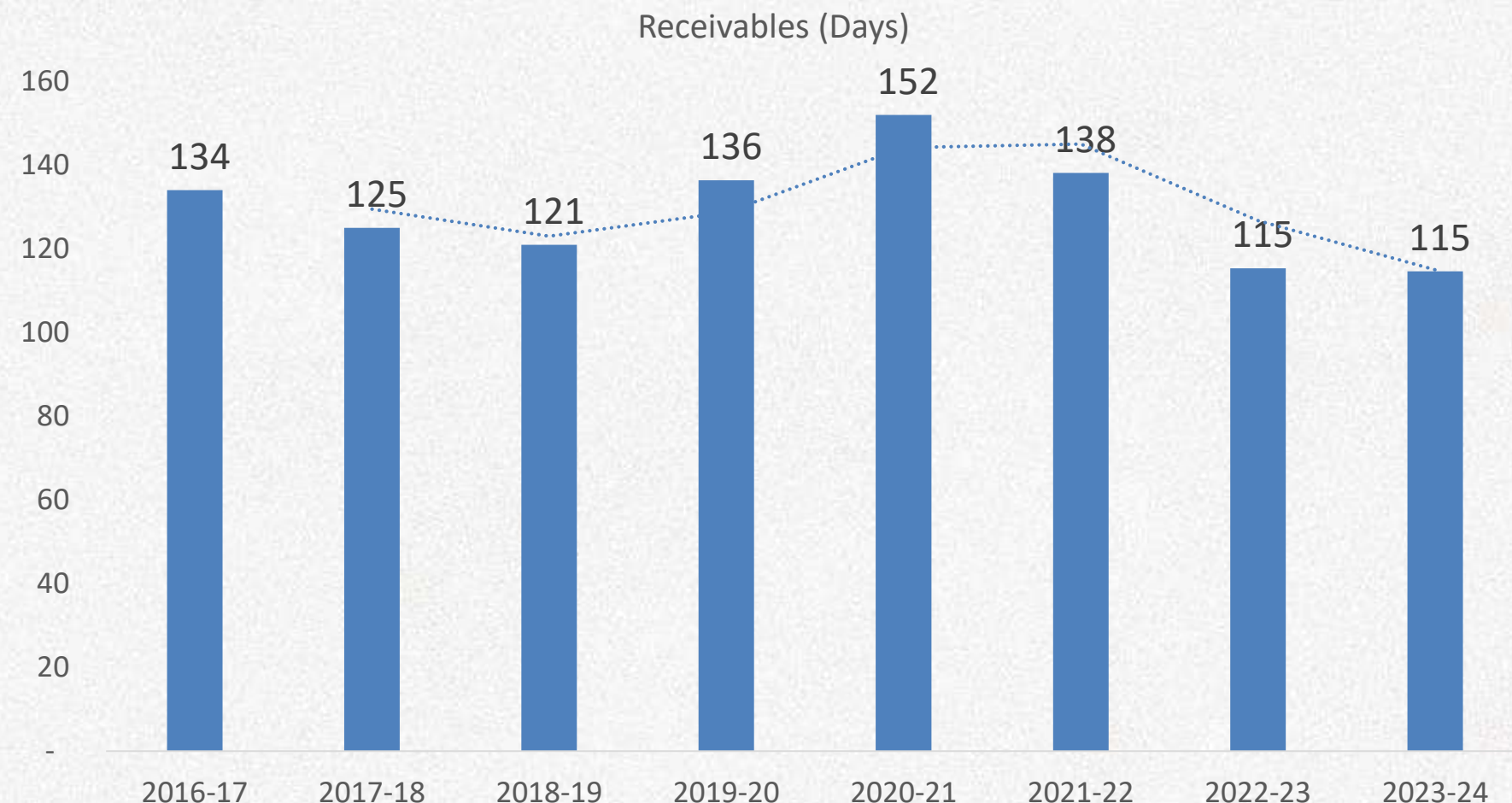
•**Regulatory Failure:** The Court termed the indefinite deferral of cost recovery as a "systemic regulatory failure" that violates the Electricity Act, 2003.

•**Oversight Mechanism:** The Appellate Tribunal for Electricity (APTEL) has been directed to initiate *suo motu* proceedings to monitor compliance and ensure state regulators adhere to these timelines.

•**Cost-Reflective Tariffs:** Tariffs must be cost-reflective, and revenue gaps (leading to regulatory assets) should only be permitted in exceptional circumstances, such as natural calamities.



## Receivable and Payable Days



- **Working-capital stress peaked in 2020-21**

Receivables rose to **152 days** and payables to **182 days**.

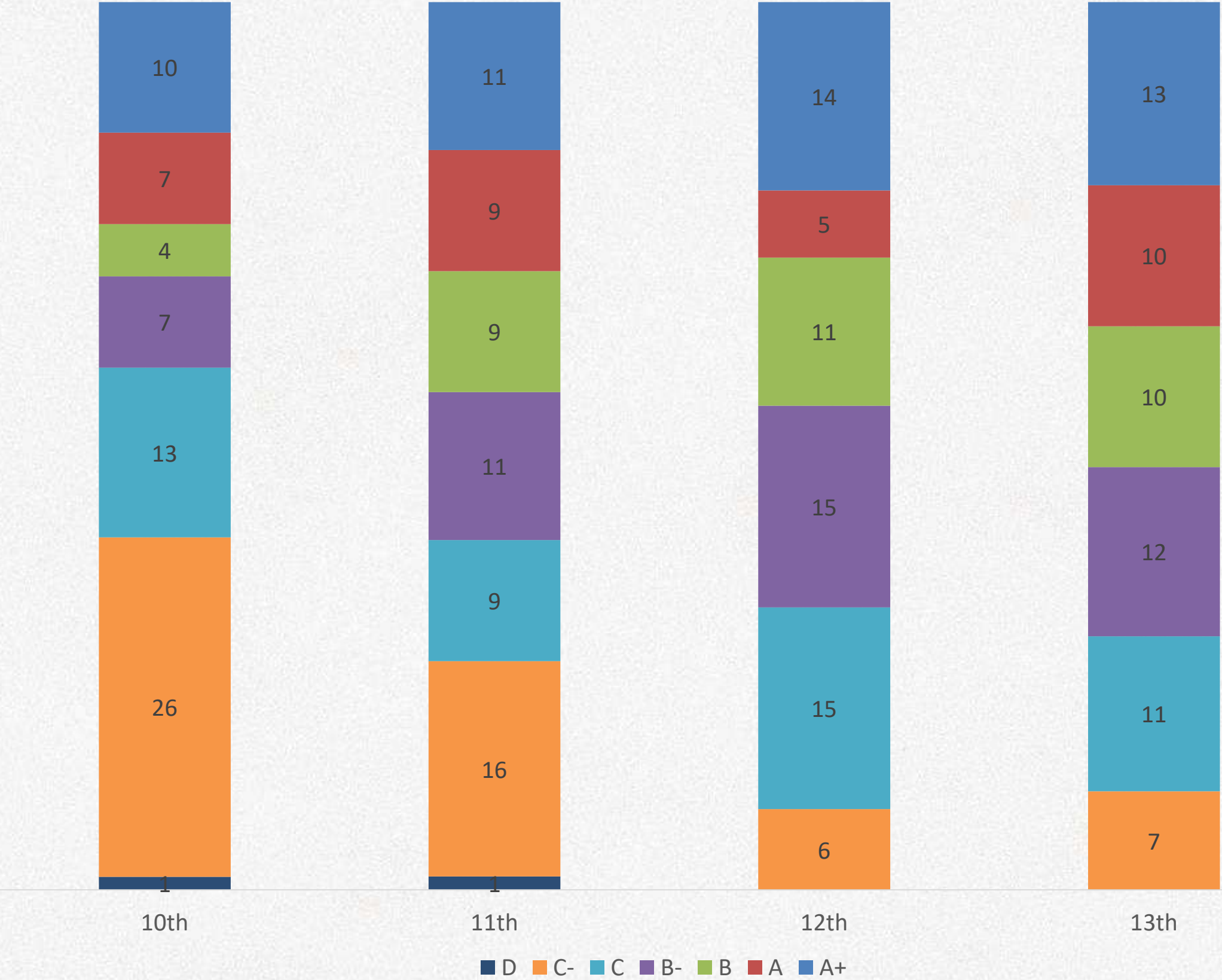
- **Recovery post-COVID**

Post-2021, improvements in receivables and payables indicators are observed alongside the implementation of LIS, LPS, RDSS, additional prudential norms



# Integrated Rating of Power Distribution Utilities as a Reflection of Discom Health

Integrated Rating-No. of Utilities



Grade	Ownership	10th	11th	12th	13th
A+	State	6	7	6	6
	Private	4	4	8	5
	PDs				2
A+ Total		10	11	14	13
A	State	1	4	3	5
	Private	3	4	1	1
	PDs	3	1	1	4
A Total		7	9	5	10
B	State	2	7	6	8
	Private	1	2	1	
	PDs	1		4	2
B Total		4	9	11	10
B-	State	3	6	10	8
	Private	3	2	3	4
	PDs	1	3	2	
B- Total		7	11	15	12
C	State	11	8	11	8
	Private	1			
	PDs	1	1	4	3
C Total		13	9	15	11
C-	State	21	12	6	7
	PDs	5	4		
C- Total		26	16	6	7
D	State	1	1		
D Total		1	1		
Grand Total		68	66	66	63



## Viability Of Discoms- Summary

### ARR Dependencies (Revenue Drivers)



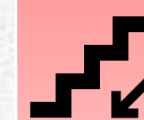
- Revenue from electricity sales and demand growth
- Cost-reflective tariffs and effective tariff design
- Regulatory pass-through of power purchase and fuel costs
- Billing and collection efficiency
- Timely and predictable subsidy support
- Other, non-tariff and regulatory income
- Consumer mix and open access / wheeling revenue

### Impact of Financial Strain



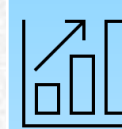
- Deterioration in quality and reliability of power supply
- Delays in payments to generators and transmission utilities
- Slower capex network expansion and modernization
- Increased risk of load shedding and peak shortages
- Higher borrowing costs and constrained access to finance
- Adverse socio-economic and fiscal impact on states

### Factors Widening the Gap (Cost/Inefficiency)



- Disallowance of legitimate costs by regulators
- High fixed capacity charges
- Elevated employee costs and borrowings
- Inefficient power procurement and scheduling
- Fuel price volatility and renewable integration costs
- High AT&C losses and revenue leakage
- Regulatory gaps and delays in tariff determination

### Path to Recovery



- Optimization of power procurement and cost structure
- Cost-reflective tariffs, FPPCA Implementation and timely regulatory filings
- Smart metering and feeder-level energy accounting for Sustained reduction in AT&C losses
- Debt rationalization
- Workforce skill improvement
- Targeted subsidy delivery and reduced subsidy dependence
- Liquidation of Regulatory Assets

**Long-term DISCOM viability depends on revenue adequacy, cost efficiency, regulatory certainty, and governance reforms.**



**THANK YOU**