

FINANCIAL VIABILITY OF DISCOMS



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

Distribution Sector - Key Highlights

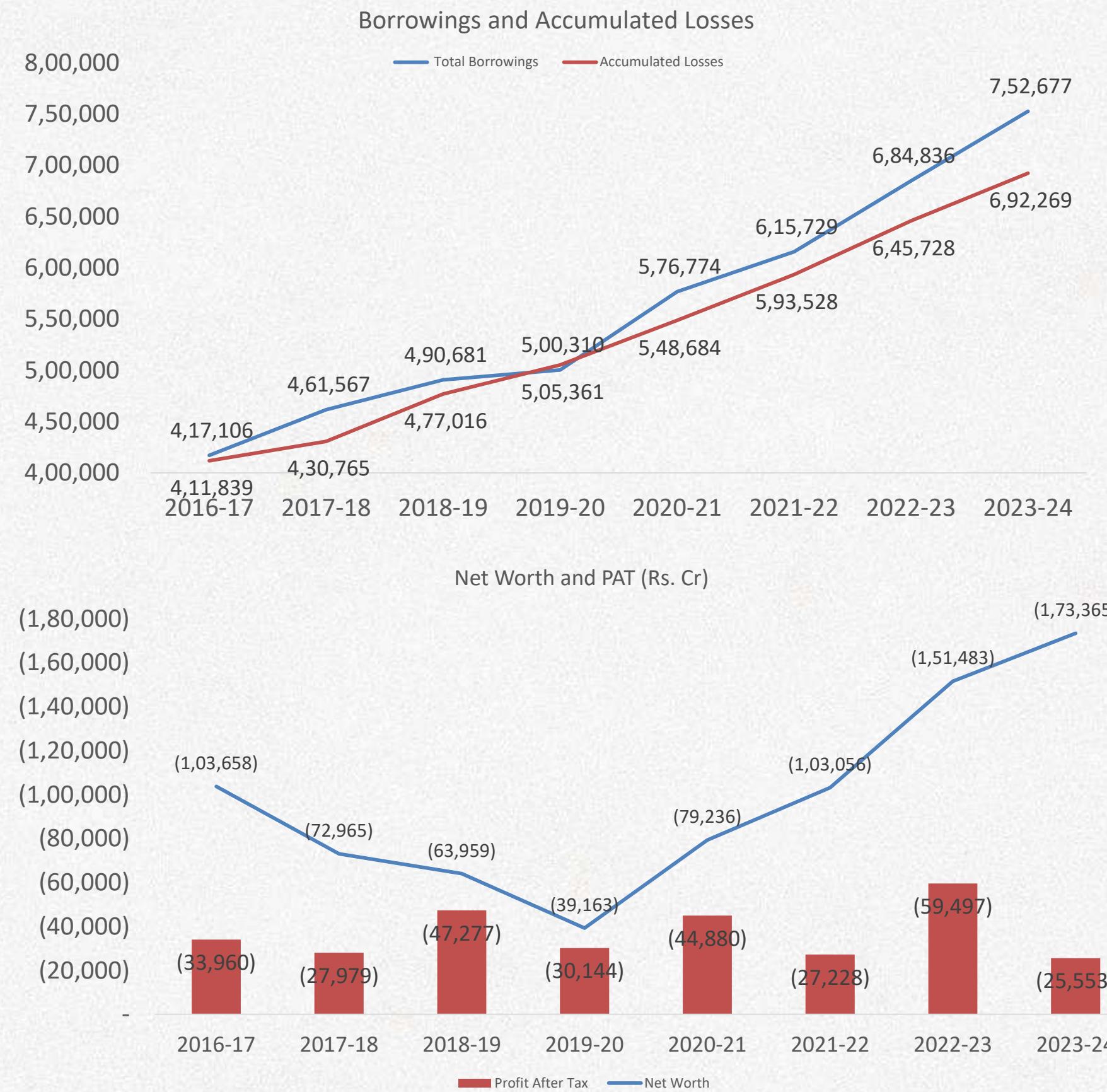
Particulars		2021-22	2022-23	2023-24
PAT (₹ crore)	₹	(27,228)	(59,497)	(25,553)
Tariff Subsidy as % of Total Revenue	₹	17.8	17.56	20.21
Tariff Subsidy Received as % of Billed	₹	109.7	108.6	97.4
ACS (₹./kWh)	₹	6.28	7.08	7.09
ARR on Subsidy Received excluding Regulatory Income and UDAY Grant (₹/kWh)	₹	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

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

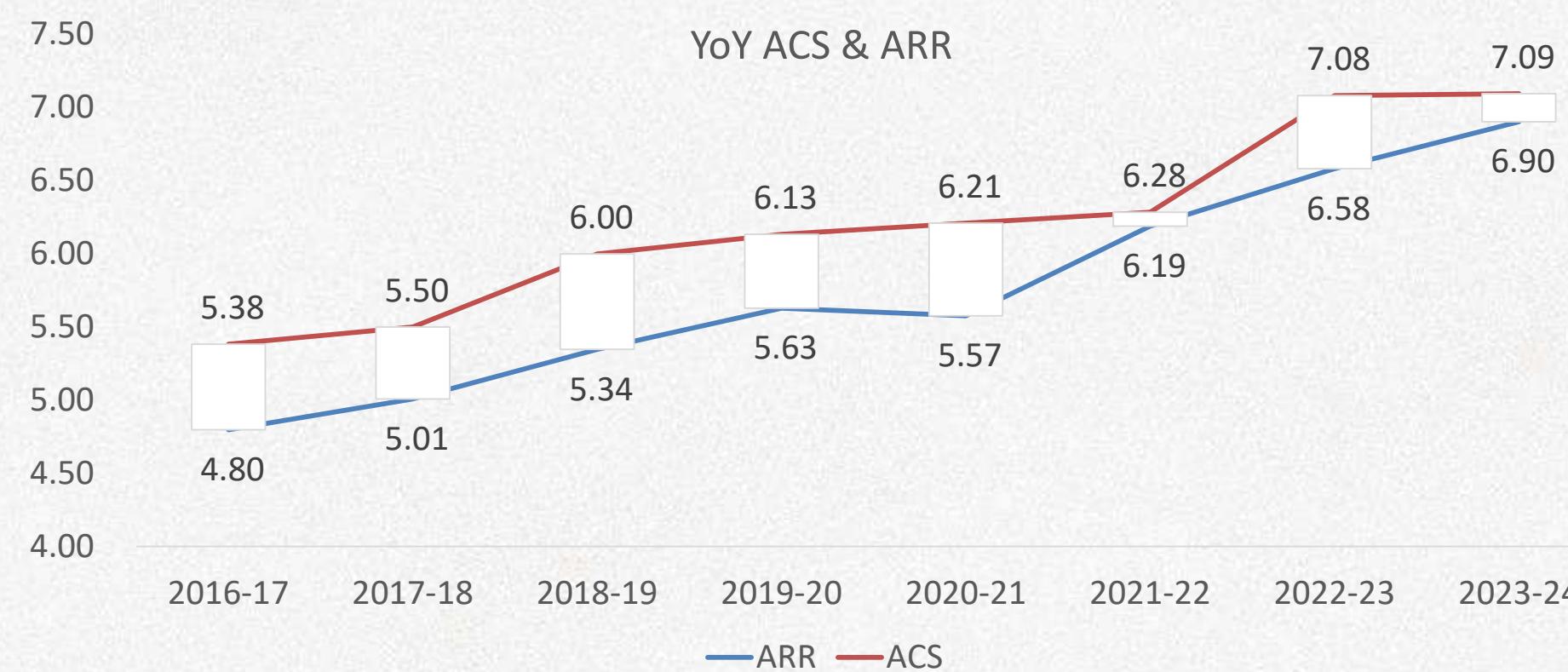
Cash-flow metrics and operating gap improved, but the sector remains structurally weak, with rising subsidy dependence and continued balance-sheet erosion.

Borrowings, Losses and Net Worth

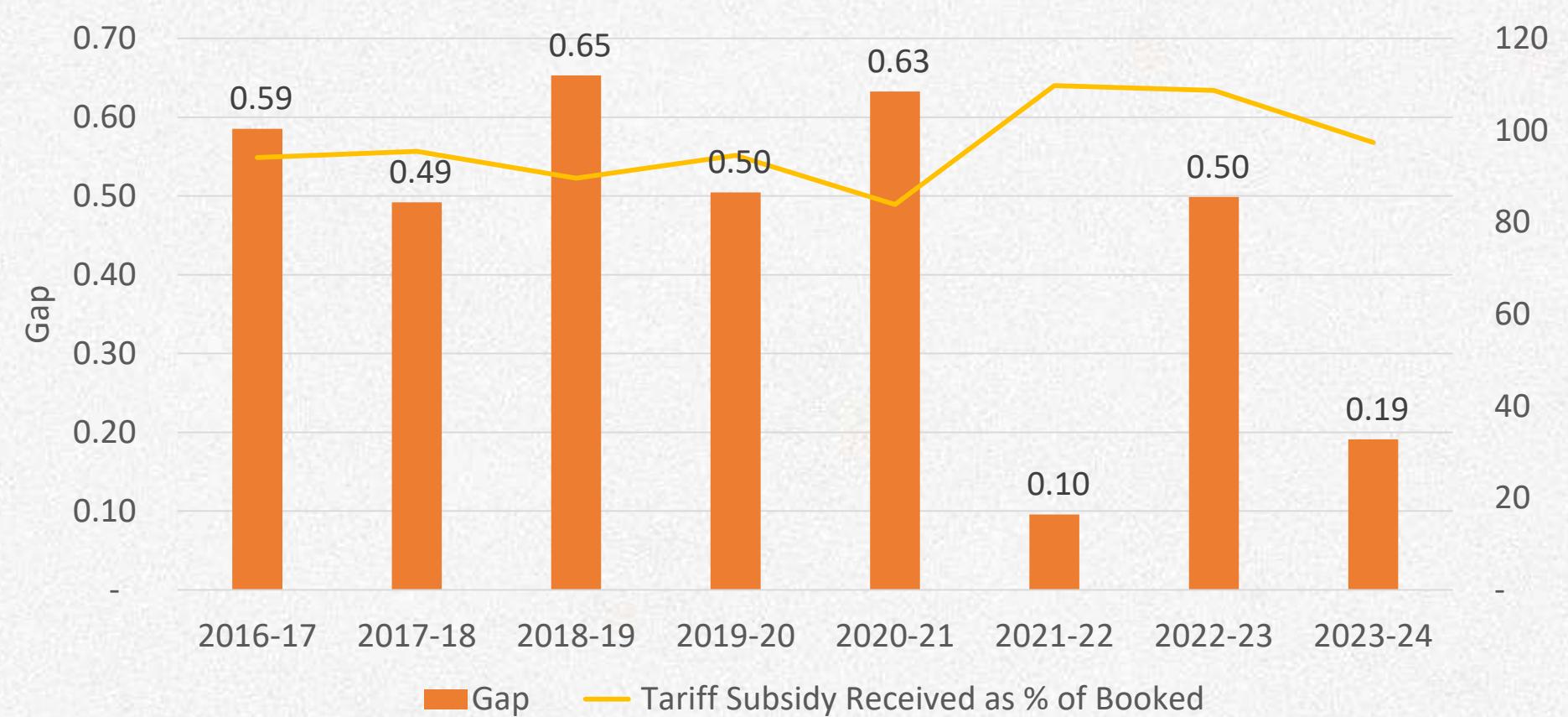


- **Debt and losses:** Sector borrowings increased **80%** vs **68%** rise in accumulated losses- linkage between accumulated losses and incremental debt
- **Post-FY21 trend:** From FY20-21 onward, **borrowings grew faster than losses**, reflecting reform-linked liquidity schemes (LIS, LPS, RBPF).
- **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.

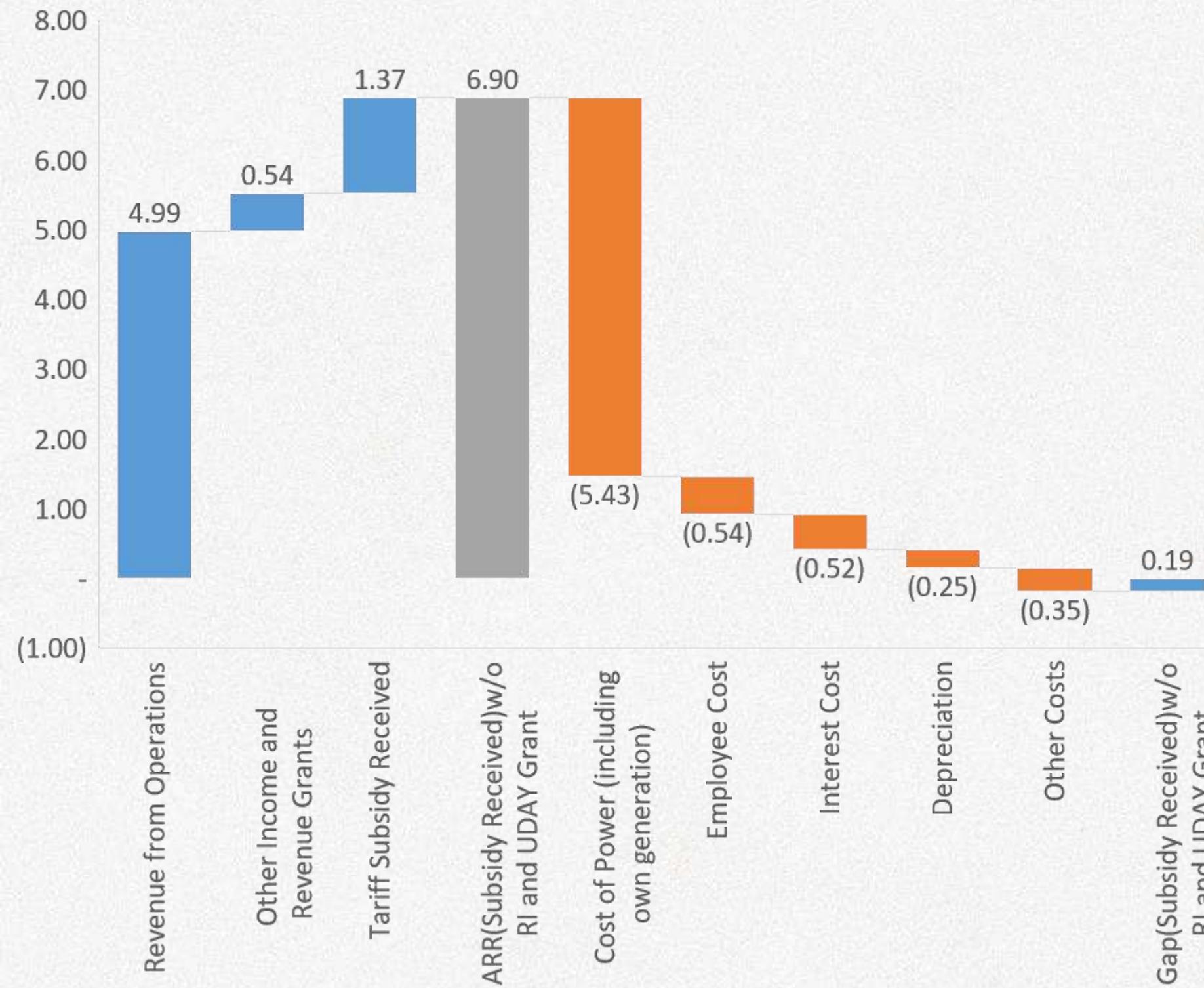
ACS-ARR Gap (₹/kWh)



- 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.

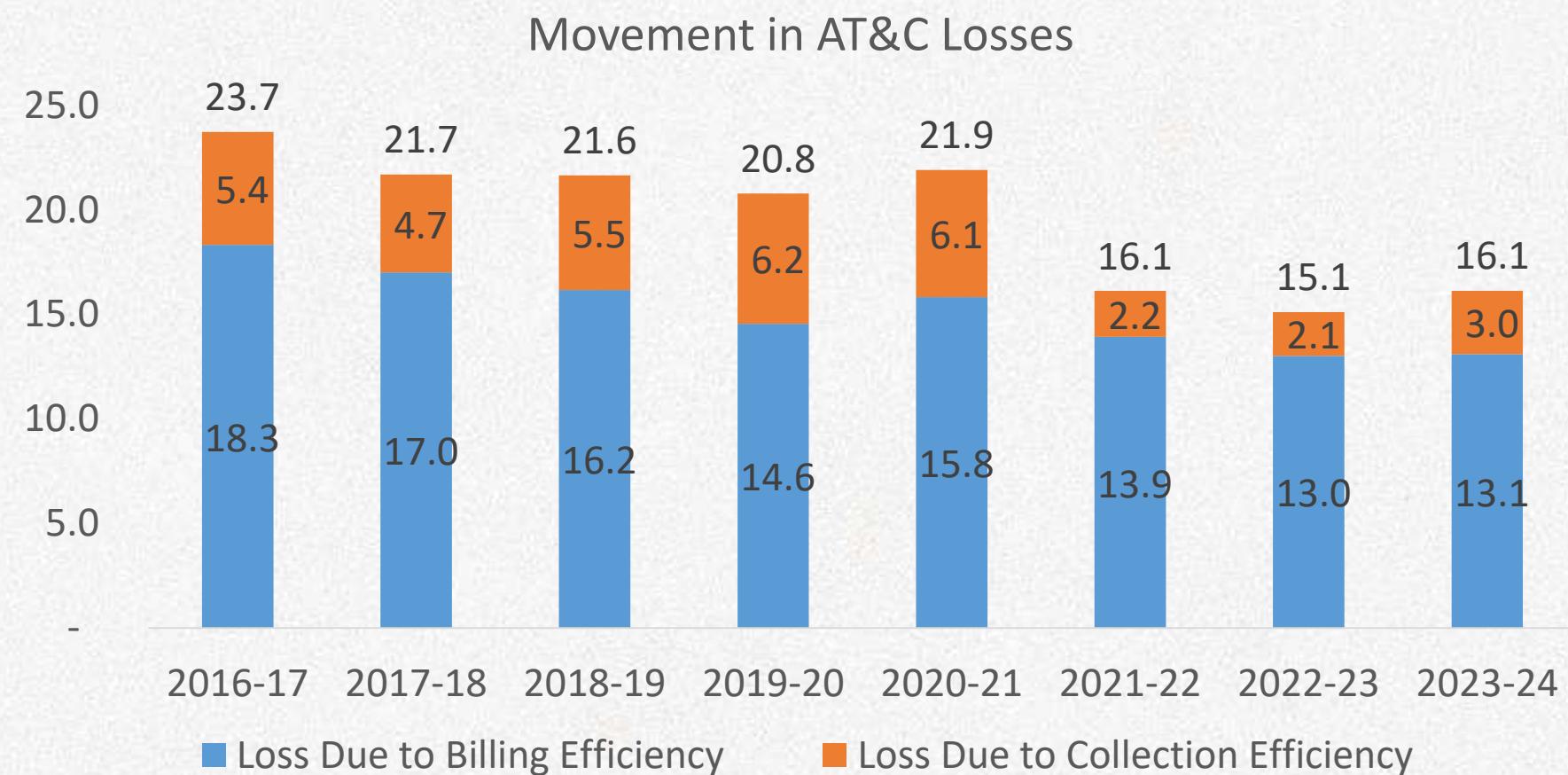
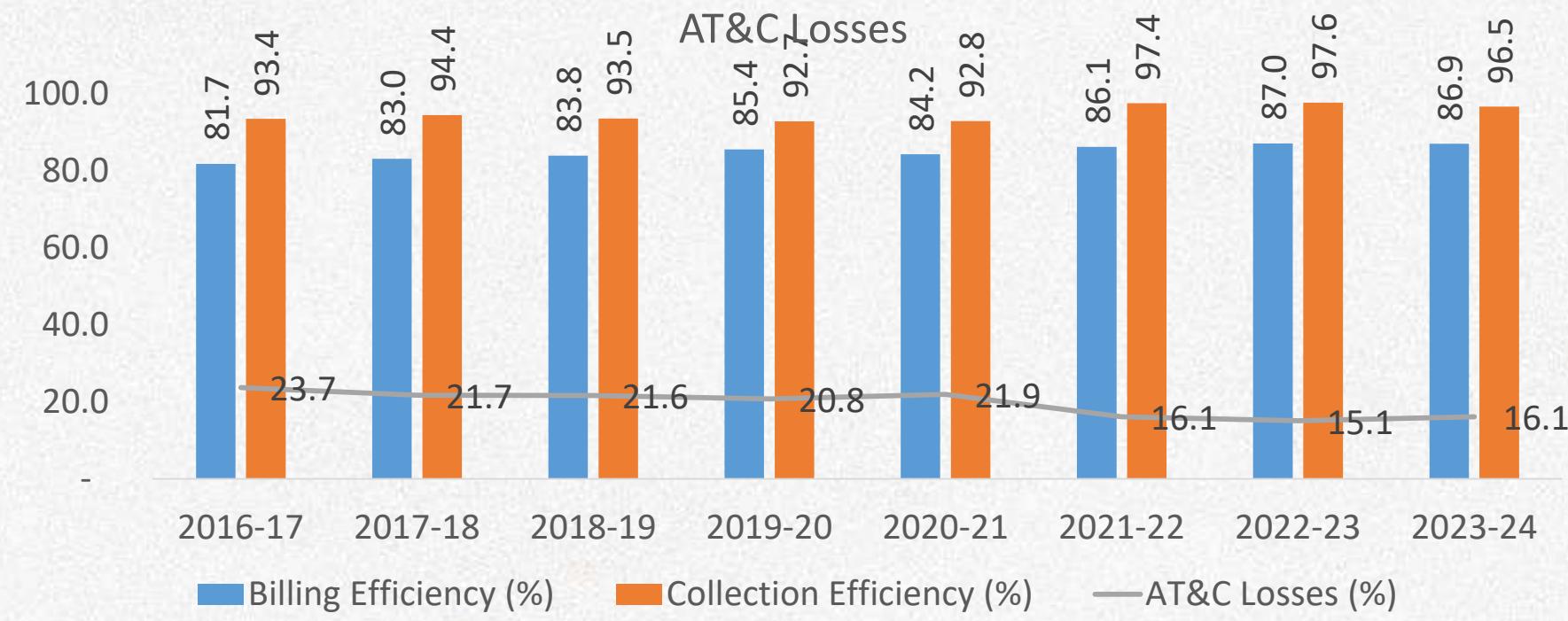
- **Receipts broadly track bookings, but with volatility:** Subsidy *received* increased from ₹77,814 Cr to ₹2,05,300 Cr, though year-to-year alignment with bookings has been uneven.

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

- **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.

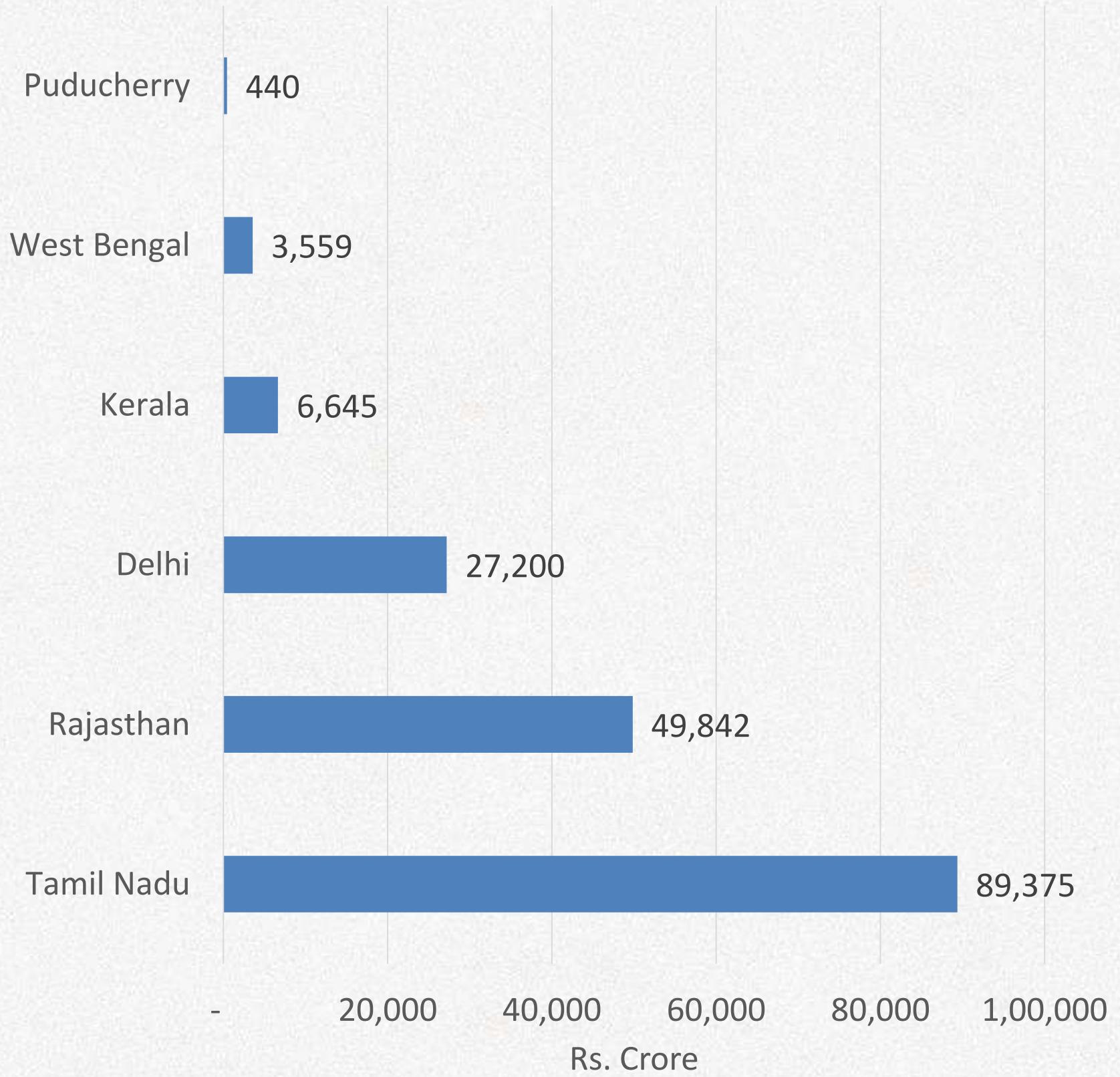
- **COVID period stress evident:** FY21 saw the weakest realization, with receipts at only **83.8% of booked**, increasing liquidity pressures for discoms.

Aggregate Technical and Commercial (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.

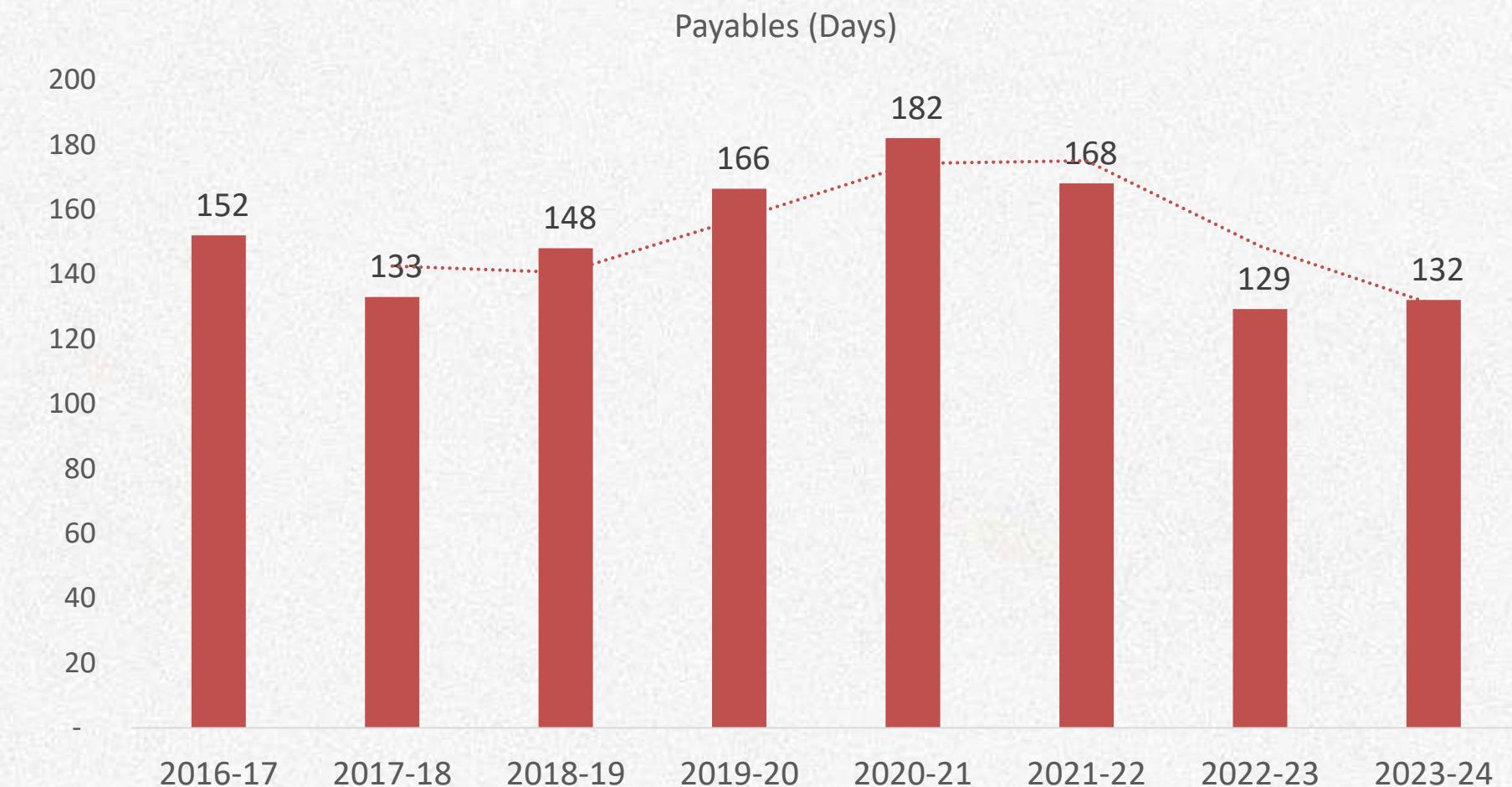
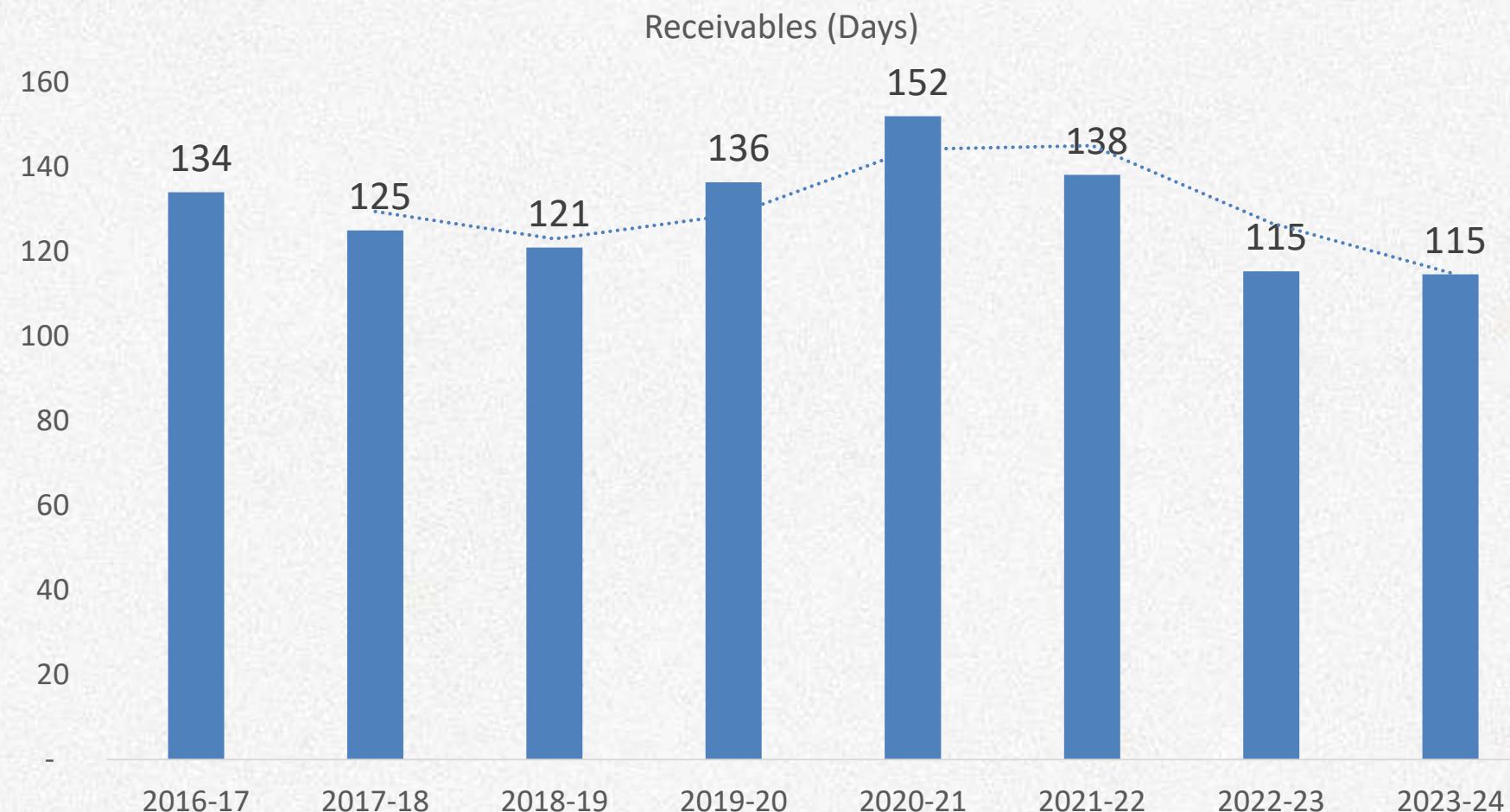
- Cap on Accumulation:** Regulatory assets are now capped and must not exceed 3% of a distribution utility's Annual Revenue Requirement (ARR).

- 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



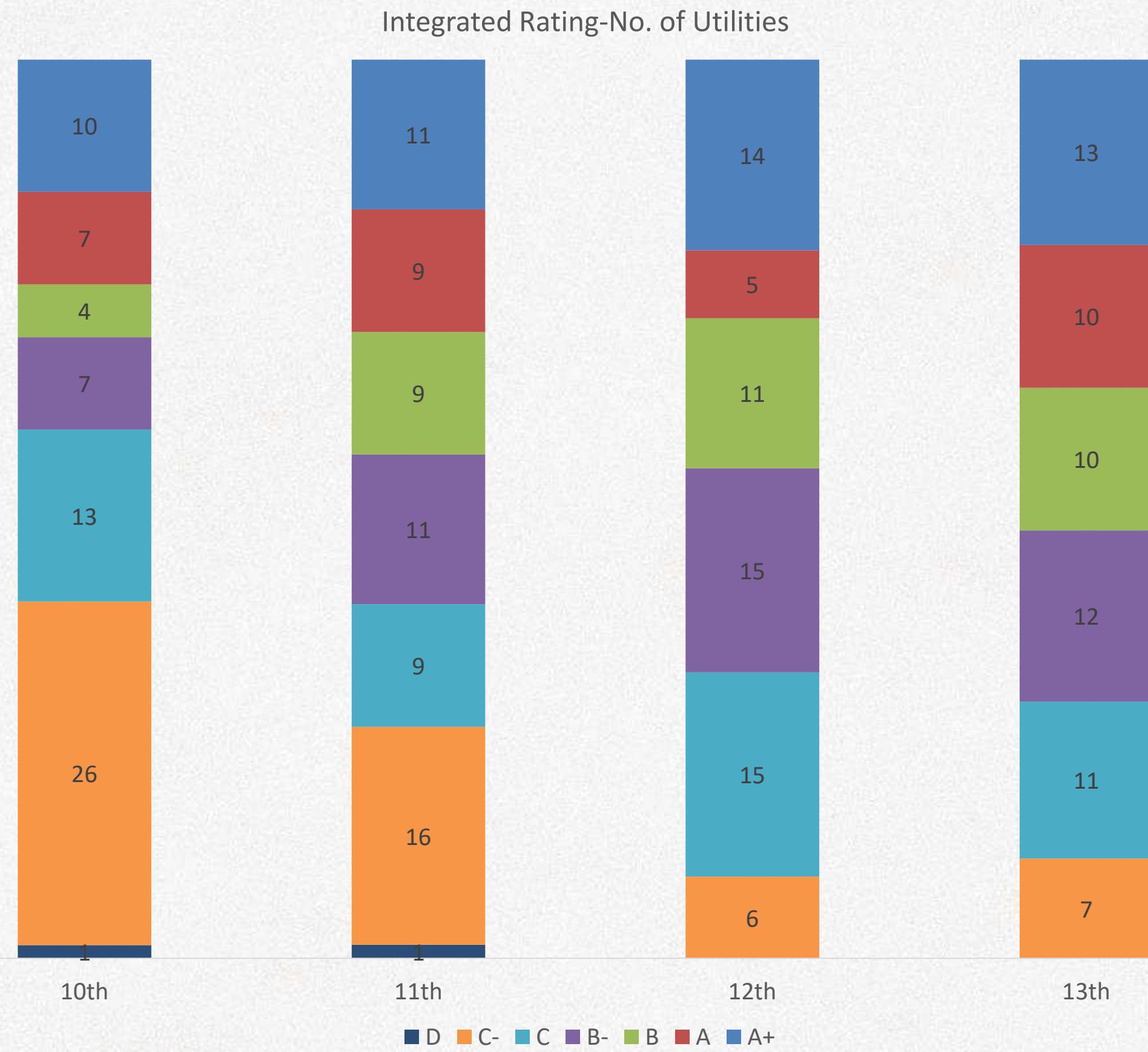
- **Working-capital stress peaked in 2020-21**

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

- **Recovery post-COVID**

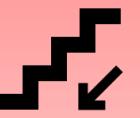
Post-2021, improvements in receivables and payables indicators are observed alongside the implementation of LIS, LPS, RDSS, additional prudential norms

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



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)	Factors Widening the Gap (Cost/Inefficiency)
<ul style="list-style-type: none"> 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 	 <ul style="list-style-type: none"> 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
Impact of Financial Strain	Path to Recovery
 <ul style="list-style-type: none"> 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 	 <ul style="list-style-type: none"> 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

