

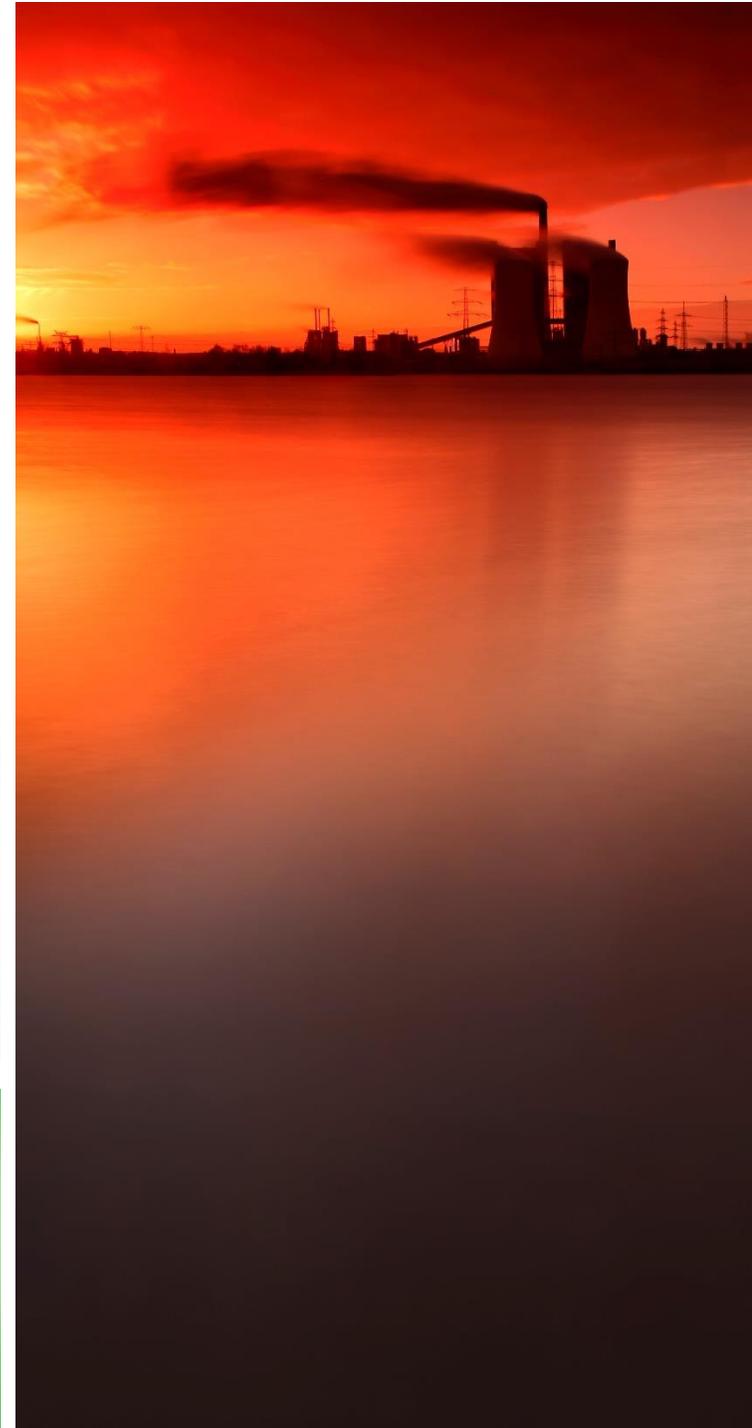
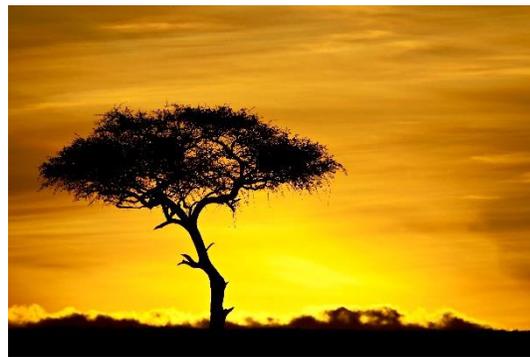


Journey of Ujwal Discom Assurance Yojana (UDAY)

Ms Ritu Maheshwari, IAS

ED (State Gen, T&D), REC and ED (UDAY)

March, 2017



The genesis of UDAY....

UDAY was launched to turn around DISCOMs financially and operationally

25 states and 1 UT have* signed MoUs with Central Govt. to participate in UDAY scheme

All major DISCOMs of the country are covered under the fold of UDAY

At the end of UDAY period
AT&C loss target - **15%**
ACS - ARR gap target - **zero**

State / UT which has signed MoU

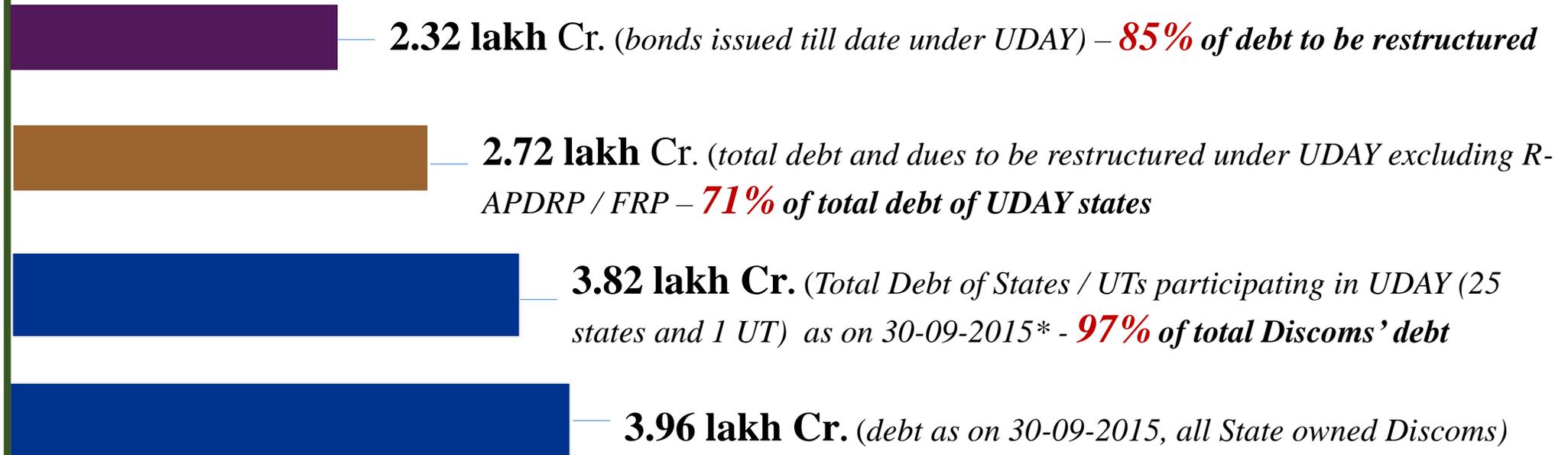
* Three states are going to sign their MoUs today

Financial Restructuring...

State Bonds worth Rs. 2.09 lakh Cr; and DISCOM Bonds worth Rs. 0.24 lakh Cr. have been issued till date (1/2)

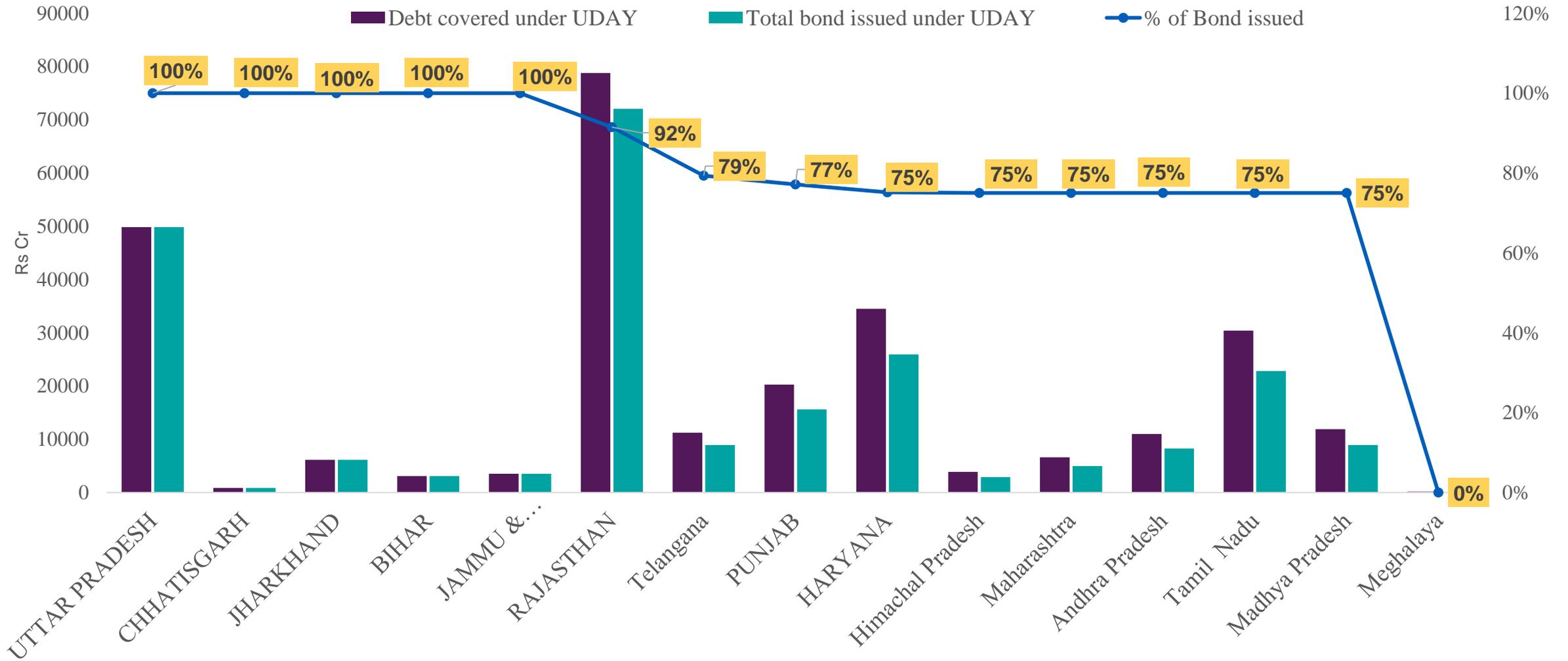
Rs.

Overall status of DISCOM debt and issuance of bonds under UDAY



Financial restructuring...

85% bonds have already been issued (2/2)



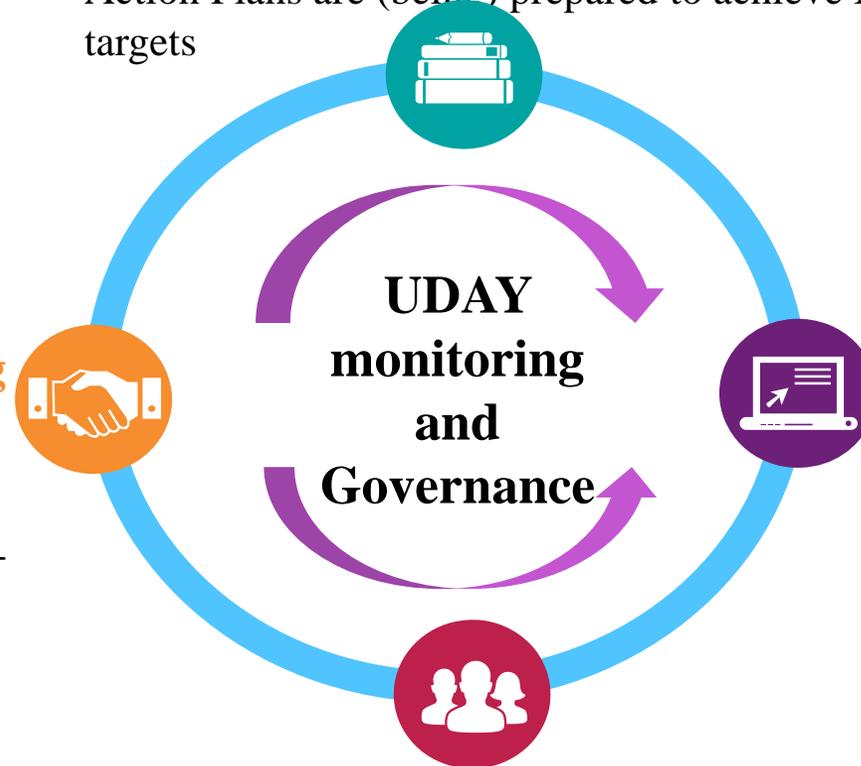
Stringent Monitoring framework of UDAY....

MoU and Action Plans

- Tripartite / Bipartite MoUs signed
- Action Plans are (being) prepared to achieve MoU targets

Review, Planning & Monitoring Focused Review Meetings

- **Three-tier review structure:**
Monthly reviews at central-, state- and DISCOM-levels
- Focused one to one review meeting with states
- **Quarterly ranking of states and DISCOMs**

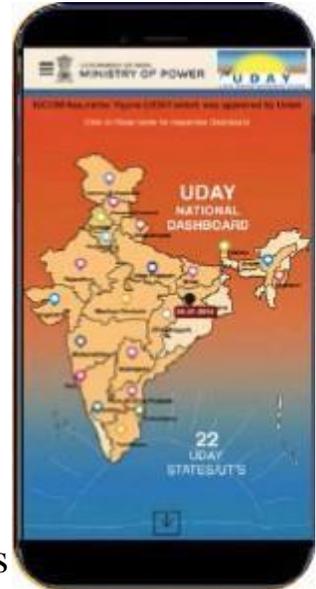


UDAY Cell and Nodal officers from DISCOMs

- Governance Team - REC
- Dedicated UDAY cell for regular monitoring
- Dedicated nodal officers from DISCOMs

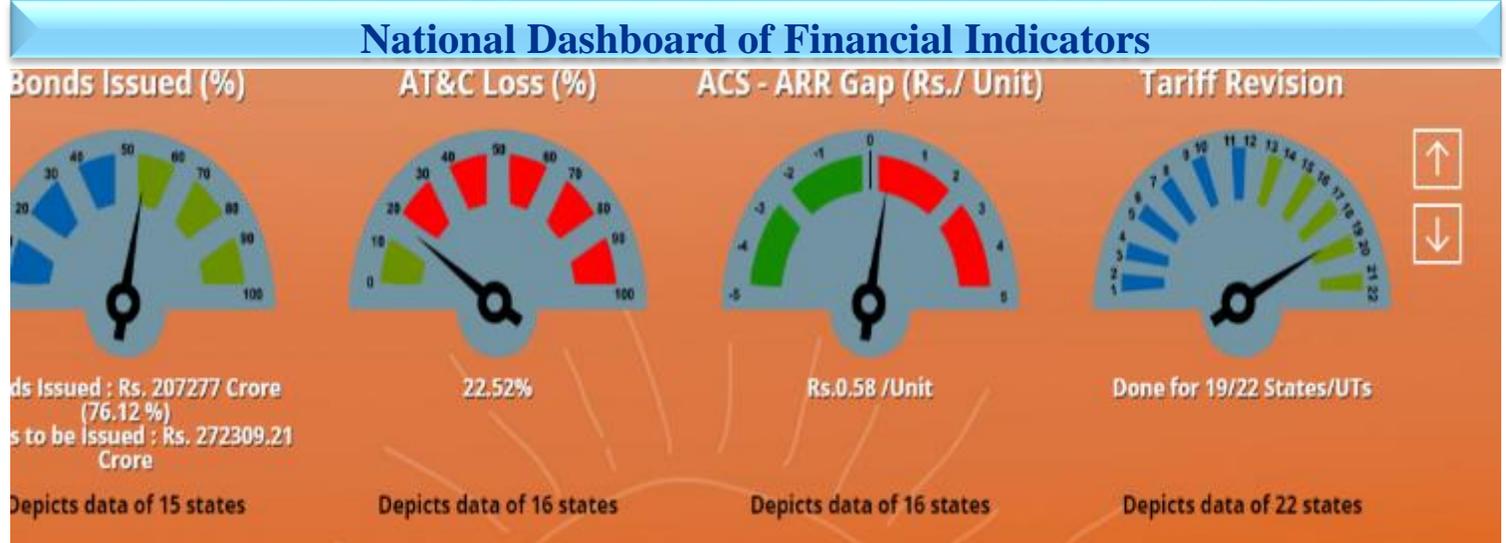
UDAY Portal

- Data upload through 26 formats
- Data and analytics are presented for public viewing
- Increases transparency and accountability of DISCOMs
- Enabled through Android and iOS APP



UDAY Portal – a key enabler

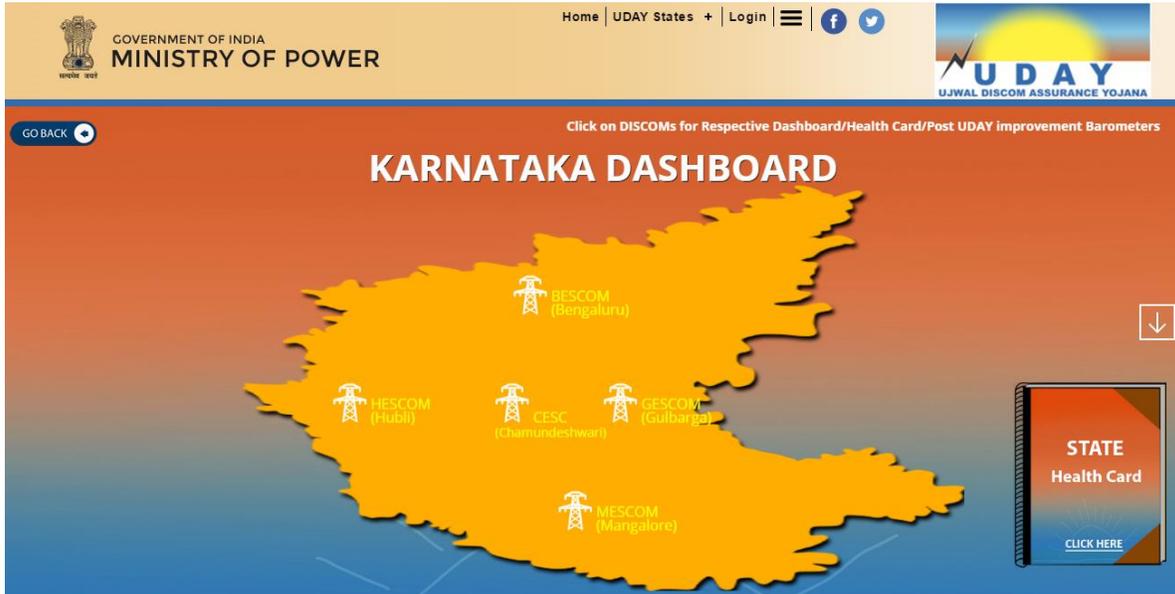
Snapshot of National Dashboard – UDAY Portal



UDAY Portal – a key enabler

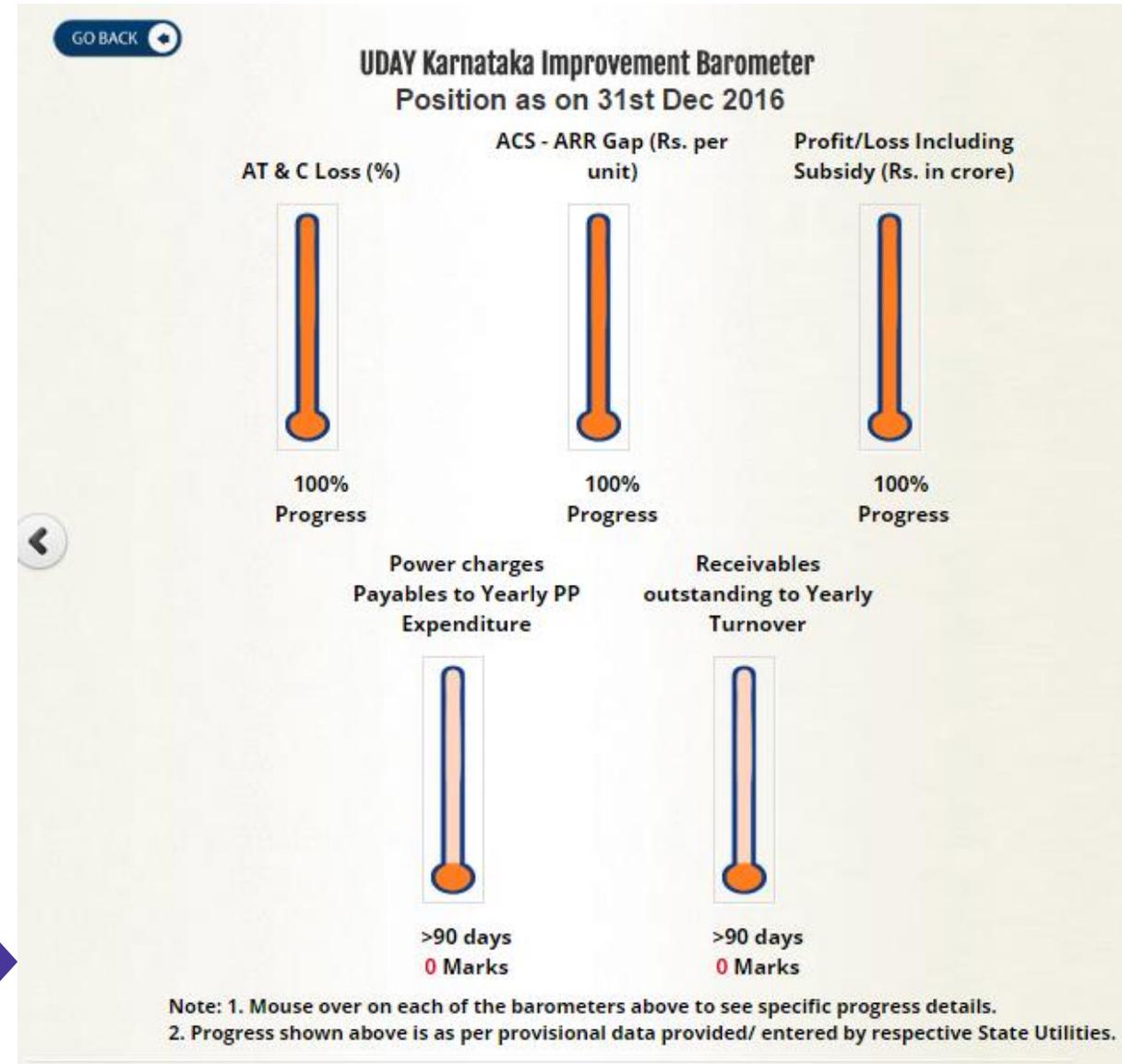
State wise dashboard / health card is available on the portal

State wise summary of performance through a digital dashboard is available on the portal



State and DISCOM wise health card

Improvement Barometers signify the post UDAY cumulative progress made by State distribution sector on targets set against UDAY parameters.



UDAY Portal – a key enabler

Discom wise dashboard / health card is available on the portal

GO BACK

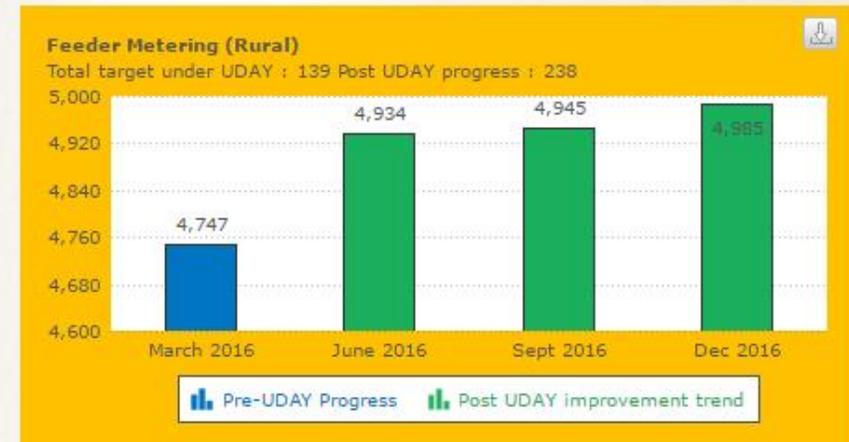
POST UDAY RAJASTHAN – JVVNL IMPROVEMENT TREND

Depicts the cumulative/quarterly progress, in absolute terms, achieved by the Discom during post UDAY period (shown through green bars in the graph). The pre-UDAY position as on 31.03.2016 is shown through blue bar in the graphs.

Traget Under UDAY depicts the balance number of any parameter to be achieved as on 31.3.2016 (i.e. Total Units minus achievement till 31.3.2016)

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Post Uday RAJASTHAN – JVVNL Improvement Trend

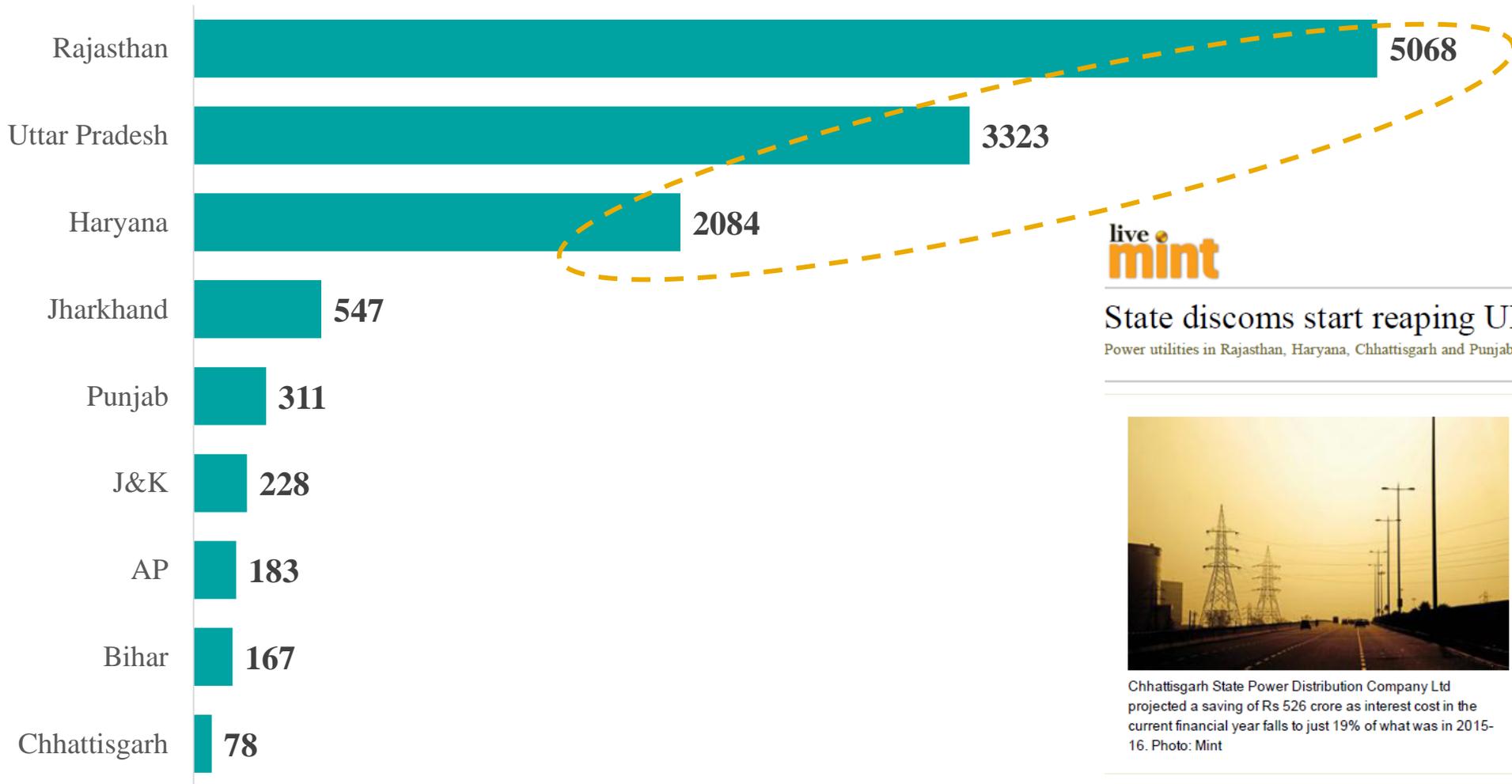


Note: Progress shown above is as per provisional data provided/ entered by respective State Util

Interest cost trends...

DISCOMs of States have achieved an estimated saving of Rs. 11,989 Cr till December 2016

Estimated savings in interest cost till December 2016 (Rs. Cr)



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mint

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State discoms start reaping UDAY benefits

Power utilities in Rajasthan, Haryana, Chhattisgarh and Punjab are among the major gainers in lowering their interest cost



Chhattisgarh State Power Distribution Company Ltd projected a saving of Rs 526 crore as interest cost in the current financial year falls to just 19% of what was in 2015-16. Photo: Mint

New Delhi: State power distribution companies have started reporting handsome savings and improvements in operational efficiency after local authorities refinanced utility debt with over Rs1.6 trillion worth of state bonds and found ways of cutting down power theft under the debt restructuring-cum-turnaround scheme, the Ujjwal Discom Assurance Yojana (UDAY), rolled out 15 months ago, according to a review by the Union power ministry.

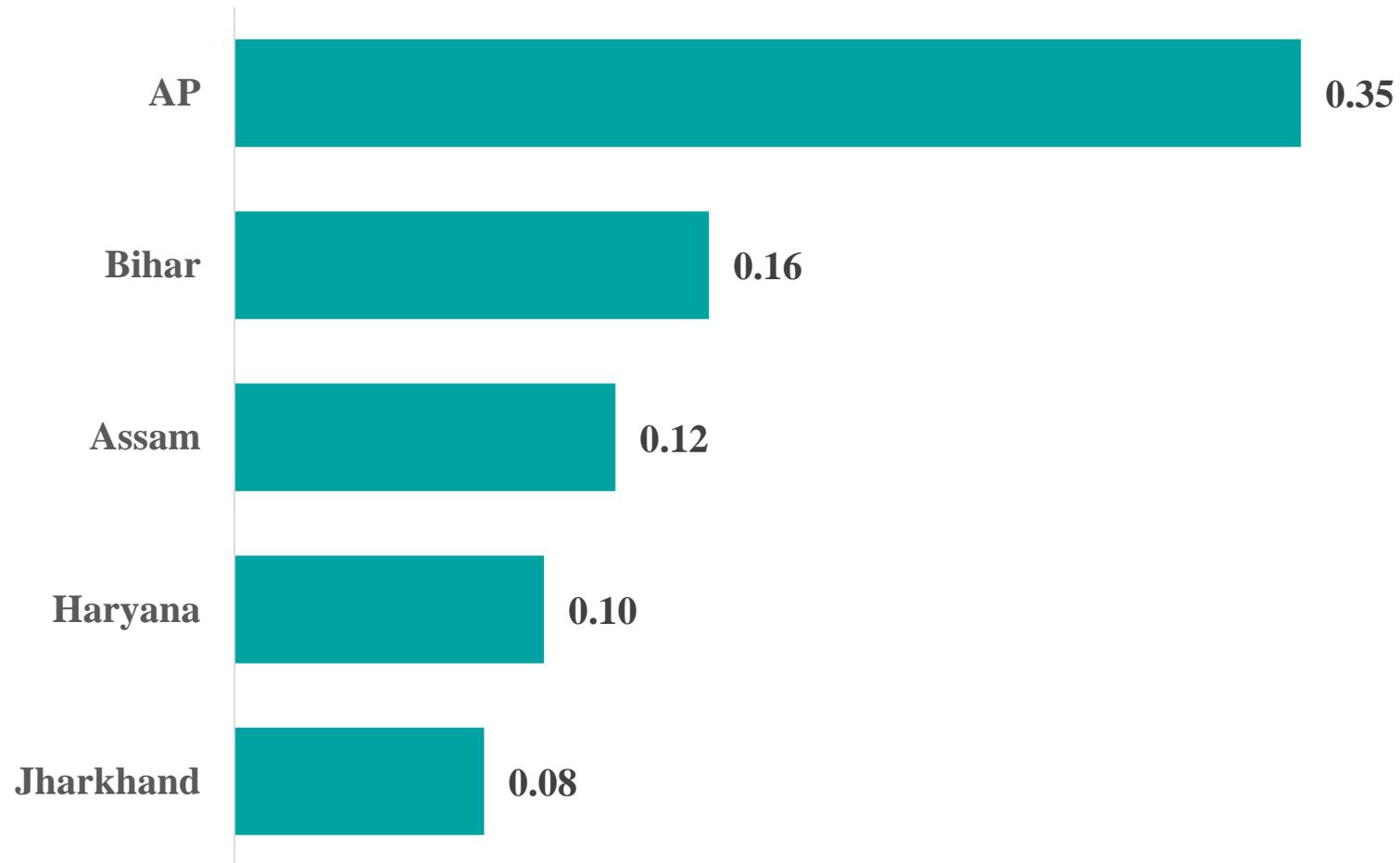
Utilities in Rajasthan, Haryana, Chhattisgarh and Punjab are among the major gainers in lowering their interest cost. Three state-owned power utilities in Rajasthan have reported that their collective interest cost in 2016-17 will drop by half to Rs4,739 crore, compared to what they incurred a year ago, according to the review. The projection for the current financial year is based on the interest cost savings made in the first half of the year.

The Rajasthan government is refinancing Rs60,500 crore of the collective debt of Jaipur Vidyut Vitran Nigam Ltd, Jodhpur Vidyut Vitran Nigam Ltd and Ajmer Vidyut Vitran Nigam Ltd under the scheme.

Power Purchase cost trends ...

Total savings (9 months) in power purchase cost in these 5 states is more than Rs. 2,100 Cr

Reductions in Power purchase cost, up to Q3FY17 over FY16, Rs. / kWh



Source: UDAY Portal
Jharkhand data is for first two quarters only

ACS – ARR Gap trends...

Reduced to 49 paisa per kWh in FY17 (9 months) from 61 paisa per kWh in FY16

	APEPDCL	APSPDCL	GOA	DGVCL	MGVCL	DHBVN	MPMKVVCL	MPPKVVCL	MSEDCL	JVVNL	AVVNL	JdVVNL
FY16	0.29	1.09	1.5	-0.03	-0.04	0.19	1.22	0.52	0.24	1.7	1.95	1.44
Up to Q3FY17	0.23	0.68	0.55	-0.07	-0.06	0.01	1.08	0.17	0.22	0.74	0.76	0.49
<i>Q-1</i>				<i>-0.06</i>	<i>-0.06</i>							
<i>Q-2</i>	<i>-0.34</i>		<i>-0.08</i>	<i>-0.07</i>		<i>-0.32</i>						
<i>Q-3</i>				<i>-0.07</i>				<i>-0.24</i>				

- **12 DISCOMs have reported improvements from their FY16 performance level**
- **6 DISCOMs have had negative ACS – ARR gap in one or more quarters during Q1 to Q3**

Source: UDAY Portal

Profit trends ...

Gujarat, Haryana and Chattisgarh have shown positive profit trends

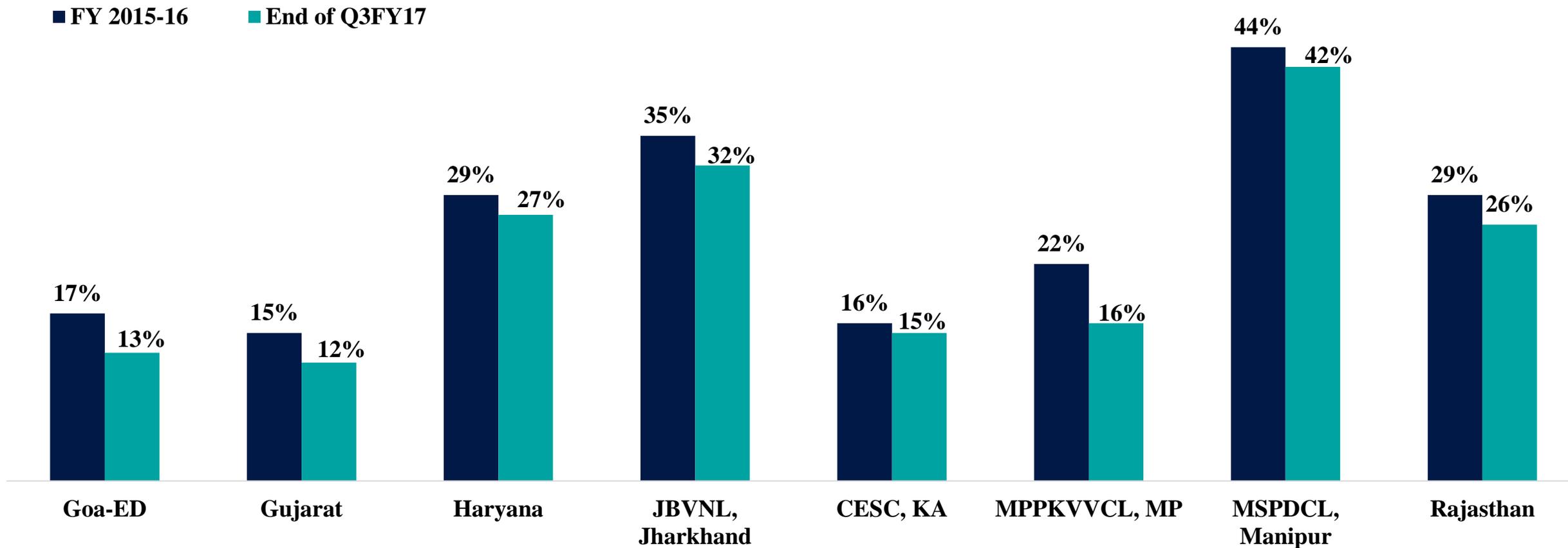
Chhattisgarh turned profitable in Q1 and Q2

State / Discoms (Rs. Crores)	FY16	Q1FY17	Q2FY16	Q3FY17	Up to Q3FY17
Chattisgarh	- 540	282	125	NA	408
Gujarat	178	78	96	66	240
Haryana	-815	-251	-903	867	-288
UHBVN	-335	-88	-1,145	966	-267
DHBVN	-479	-163	242	-99	-21

UHBVN and DHBVN turned profitable in Q3 and Q2 respectively

AT&C trends...

AT&C loss of UDAY states has reduced to 22.5% in FY17 (9 months) from 24% in FY16



13 DISCOMs have reported improved AT&C loss at the end of Q3FY17 from FY16 level.

In addition, APEPDCL has continuously maintained low AT&C loss and at the end of Q3FY17, AT&C loss is 7.2%

Goa – ED data is for first two quarters only

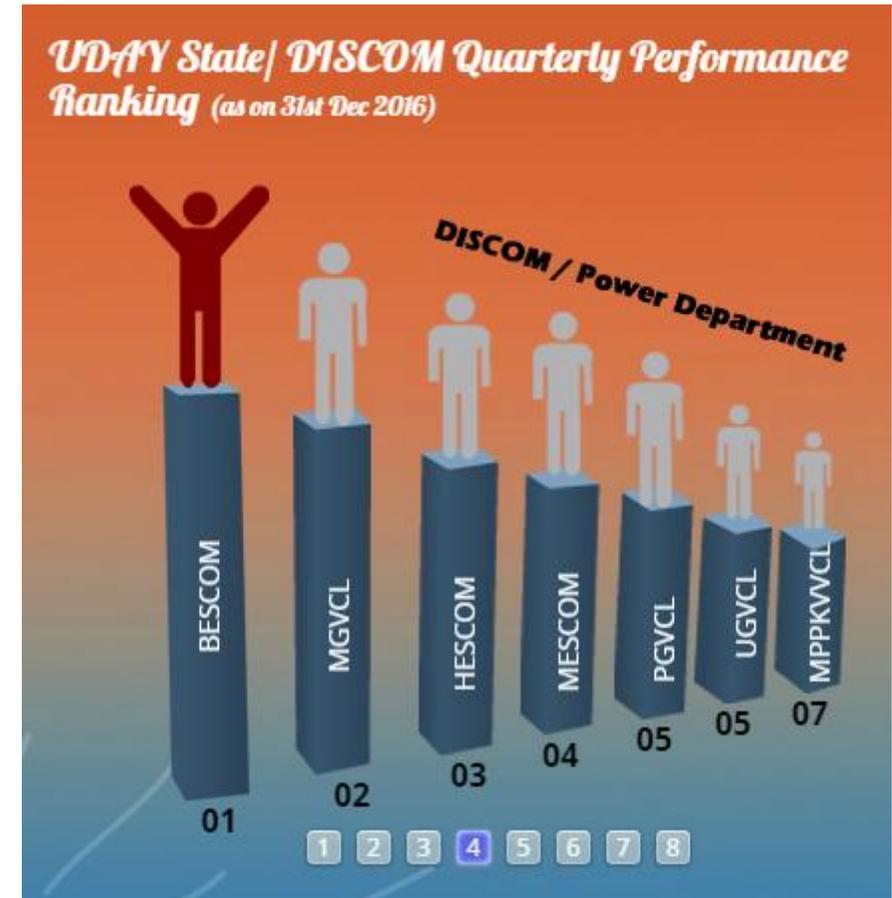
DISCOM rankings...

DISCOMs have been enthusiastically participating in UDAY to make it a success

Illustrative ranking of DISCOMs as highlighted in UDAY Portal

BESCOM, MGVCL, HESCOM are overall top performers till the current quarter (Q3FY17)

Parameter	Best performing Discoms
AT&C Loss	<ol style="list-style-type: none">1. UGVCL, Gujarat (4.6%)2. APEPDCL, Andhra Pradesh (7.2%)3. DGVCL, Gujarat (9.6%)4. MGVCL, Gujarat (10.75%)
ACS-ARR gap	<ol style="list-style-type: none">1. DGVCL, Gujarat (-0.07)2. MGVCL, Gujarat (-0.06)3. UGVCL, Gujarat (-0.04)4. CESC, Karnataka (-0.02)



Subsidy trends...

9 DISCOMs of 7 states have reported reduced state subsidy dependence over last year

DISCOM / ED	Subsidy booked as a percentage of total revenue	
	FY16	FY17 (up to Dec 2016)
APEPDCL, Andhra Pradesh	10%	2%
SBPDCL, Bihar	46%	32%
CSPDCL, Chhattisgarh	4%	3%
Goa ED	32%	14%
UHBVN, Haryana	31%	30%
MPPKVCL, Madhya Pradesh	32%	30%
JVVNL, Rajasthan	6%	4%
AVVNL, Rajasthan	6%	4%
JdVVNL, Rajasthan	5%	3%

Transmission losses trends...

7 States have reported reduced transmission loss from FY16 level

State	Transmission loss (%)	
	FY16	FY17 (up to Dec 2016)
Andhra Pradesh	3.37%	→ 3.00%
Assam	3.64%	→ 3.50%
Chhattisgarh	2.89%	→ 2.78%
Haryana	2.69%	→ 2.20%
Madhya Pradesh	2.88%	→ 2.84%
Maharashtra	3.92%	→ 3.53%
Bihar	4.70%	→ 4.59%

Operational Efficiency Indicator trends...

Operational Efficiency indicators	Cumulative % achievement	Post-UDAY* achievement
Urban Feeder Metering	100 %	2,649
Rural Feeder Metering	97 %	4,803
Rural Feeder Audit	100 %	74,638
Feeder Segregation	69 %	821
UJALA LED-bulb distributions	100%	19.8 Crore
DT Metering Urban	48 %	59,432

Trends of operational parameters...

*55 lakhs domestic household connection achieved during UDAY period- TOWARDS 24*7 PFA*

Domestic-household connections

S.No	States	Post-UDAY achievement
1	Andhra Pradesh	100%
2	Gujarat	100%
3	Karnataka	100%
4	Maharashtra	100%
5	Manipur	100%
6	Uttarakhand	100%
7	Rajasthan	87%
8	Bihar	50%
9	Madhya Pradesh	69%

- Bihar alone has achieved 24 lakhs connections

Anti-theft campaigns

S.No	States	No. of campaigns
1	Jharkhand	10,284
2	Madhya Pradesh	2,712
3	Gujarat	2,314
4	Rajasthan	1,947
5	Jammu & Kashmir	1,476
6	Karnataka	1,122
7	Uttarakhand	953
8	Manipur	264
9	Andhra Pradesh	146
10	Maharashtra	99

- More than 21,000 anti-theft campaigns

Promoting transparency & citizen empowerment across the electricity value chain

Apps and portals of the Ministries of Power, Coal, New & Renewable Energy and Mines



Fuel

TAMRA

Shows the status of mining blocks auctioned / to be auctioned in India



Generation

Vidyut Pravah / DEEP

Real time Energy price & availability highlights

e-Bidding for medium term purchase of power

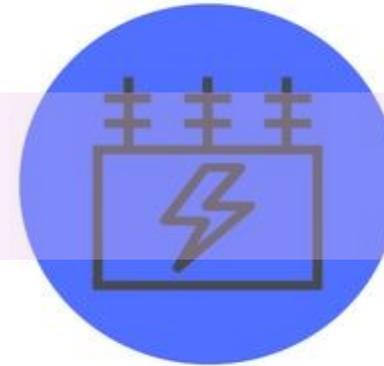


Transmission

Tarang / e-Trans

Transmission network monitoring

e-bidding, e-reverse auction, Tariff Based Competitive Bidding



Distribution

UDAY / GARV/ IPDS /Urja/ Urja Mitra

Shows progress of states / UTs on UDAY parameters

Village electrification

Info of IT enabled towns, Outage info, connections, complaints etc.



Consumption

UJALA

Updates on LED bulb distribution under UJALA scheme

NATIONAL POWER PORTAL

Transparency, Accountability and Efficiency Ecosystem created by Ministry of Power

1 11 kV Feeder Monitoring Scheme:

- About 31,871 urban feeders of R-APDRP are being monitored online on power supply and AT&C loss parameters. **Data of 24,395 urban feeders is already available on the National Power Portal**
- **1 lakh rural and agricultural feeders to be monitored: Feeder wise** Power supply information of 30,000 feeders and AT&C loss data of 7,000 feeders already available **on the National Power Portal. Rest to be made online by December'17**

2 Urja Mitra

- **An end-to-end Outage Management Ecosystem**
- Tracks power outage from its occurrence to timely intimation to the consumers, and finally, its timely restoration
- Consumers have **access to the Power Outage information** (both scheduled and unscheduled) through SMS / email
- Consumers can also connect with the Power Distribution Companies

Key benefits

Transparency through real time communication

Minimum outage
Increased reliability
Removal of high loss feeders

Increased accountability of DISCOMs

Consumer empowerment

Best practices...

Prepaid Metering - Manipur



Manipur DISCOM-MSPDCL has taken up the installation of Pre-paid metering to reduce the outstanding consumer debts, energy theft and improve the billing efficiency.

The revenue collection has gone up from Rs. 88.61 Crore in 2012-13 (Rs. 7.38 Crore Monthly Average) to Rs. 175.95 Crore in 2015-16 (Rs. 14.66 Crore Monthly Average).

Name & Shame-Campaigns using Public Hoardings, Newspaper notices with Consumer Details, Radio announcements and Other Social-Media like Facebook, Whatsapp etc. are being carried-out to bring down the AT&C losses

Best practices...

Spot Billing - Bihar



To reduce AT&C losses, DISCOMs of Bihar have implemented their own billing software in Urban and Rural areas and started Spot billing through web-based Mobile app with feature of image of meter reading on the consumer's bills for better satisfaction of the consumers.

Standardization of computation methodology for AT&C loss and ACS-ARR gap is under consideration

AT&C Loss

- **“Revenue/ Tariff Subsidy”** should form part of **‘Revenue from sale of Power’** for calculating Collection Efficiency
- **Subsidy Received** figure shall form part of ‘Revenue from Sale of Energy’ and **Subsidy Booked** shall form part of ‘Billed Amount’

This will reflect the true position of “Collection Efficiency”

ACS-ARR gap

- ACS-ARR gap computation to be done based on **“Total Input Energy”** instead of **“Sold Energy”**

Key aspects that needs consideration during performance assessment of UDAY

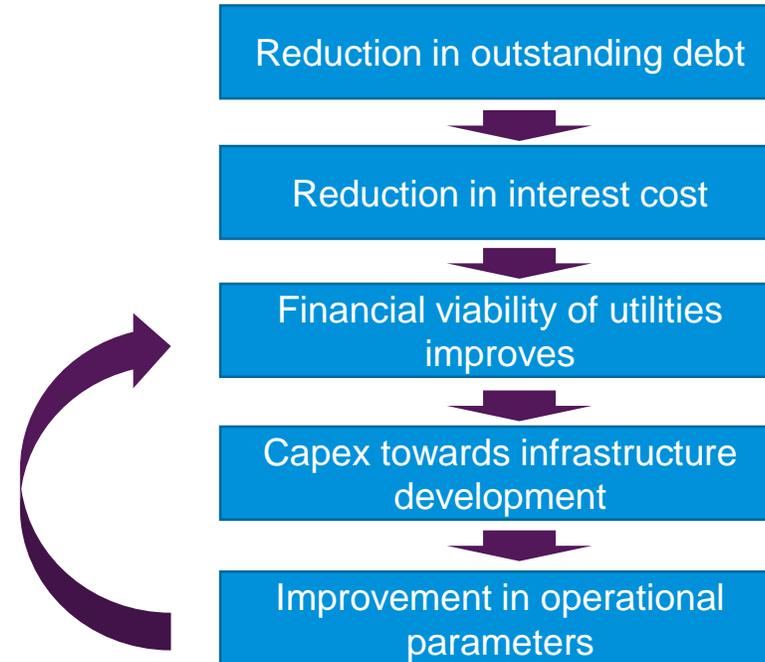
1 Practical data lag may not lead to conclusive performance assessment

- Financial data are provisional until audited at year end
- Trued-up numbers become available at a later date
- Provisional unaudited data could change leading to asymmetrical observations
- Performance at the end of the year could improve on the account of pending receivables
- Data dissemination is not timely for many Discoms

Hence, quarterly or half-yearly metrics of discoms may not portray the right picture. It is advisable to wait for the trued-up numbers in order to draw precise conclusions

2 Transformational initiatives are sequential in nature and benefits can be reaped after a certain lead time only

A typical transformation chain



Though the initiatives of the 'transformation chain' can be monitored regularly, we need to wait to see the target benefit

Thank You