Analysis of Feeder Data

- **Total Feeders:** ~32000
- **Total Feeders linked to NPP:** 31075
- **Data available on NPP:** 27520
- **% Feeders communicating:** 89%

**Constraints (Reasons):**
- Meter Defective
- DCUs/Modems Defective
- Communication link failure

- Feeders with AT&C loss>50%: 1001
- Feeders with AT&C loss>90%: 224
- Feeders with SAIDI>30: 794
- Feeders with SAIFI>30: 1140
Benefit of Feeder Monitoring

- **Data availability at multiple points**: IPDS Portal, Discom’s Website, NPP, Urja App.

- **Transparency of Information** for MoP, State Govts., Discoms & People as large.

- **Identification of loss pockets** facilitating micro management towards better administrative measure for loss reduction

- **Better consumer connect** with availability of:
  - Outage Information: SAIDI/SAIFI
  - Consumer complaint redressal status
  - New service connection status
Monitoring check points & best practices

• High DT and Feeder Loss
  • Checking consumer mapping of the DT
  • Checking mismatch in Period of consumer meter reading Vs period of DT meter reading.
  • Checking consumer meters & its M.F.
  • MRI data investigation for any abnormal log.
  • Theft of energy through direct hooking, meter by-pass etc.

• Consumers exists in billing data base but not on GIS database
  • “Ghost” consumers
  • Consumers wrongly mapped from nearby DT

• Found in GIS database but not on billing database
  • Illegal connection
  • Consumers should be mapped/ included in billing database
Monitoring check points & best practices

• **Administrative** actions taken up -
  
  ✓ Regular identification of loss pockets
  ✓ Strict vigilance/ raids in theft prone area – CCTVs installation
  ✓ Disconnection & dismantling
  ✓ Connection regularisation/ Mass scale connection drive
  ✓ Collection drive

• **Technical intervention** towards loss reduction taken up by Discoms -
  
  ✓ Shifting load from overloaded DT, DT augmentation etc.
  ✓ New feeder / feeder bifurcation / Re-conductoring,
  ✓ Load checking & load enhancement, if required.
  ✓ Phase load balancing
  ✓ Arial Bunch Cable
  ✓ Identification and rectification/ replacement of faulty meters
  ✓ Pillar boxes – relocating meters outside
Benefits accrued from R-APDRP – as per Feeder managers

• **Discom level** -
  • Central database creation
  • Common billing system – Urban + rural for some states
  • Reduction of AT&C losses
  • Easy Availability of MIS
  • Better transparency
  • Improvement in work culture of staff

• **Consumer level** –
  • Quality of supply has improved – blowing of fuses have come down
  • Bill accuracy has improved
  • Additional payment gateways available
  • Service connections online
  • 24*7 Call Centre with 1912
New Initiatives by Discoms

• Mobiles Apps for meter reading, payment of bills, recharge of prepaid meters, lodging complaints – myBijulee, E-Suvidha, DAKSHATA

• GIS updation on regular basis

• Service connection online

• Mandatory E-Payment for all employees

• Event reporting through SMS

Way forward & expectations

• Capacity building of employees

• HR investment requirement by Discoms / number of consumers in area
धन्यवाद।