

Launch of India-REDP Portal on RPO framework

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India
r.e.

visualising
India's ambitious
RE journey

Followed by panel discussion with

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Objective and Motivation for the Portal

- Ambitious RE targets and RPO policy has been key driver
- However comprehensive compliance monitoring data availability in the public domain is weak and not in one place.
- This portal allows users
 - To access all information in one place (download, share, compare)
 - To get a deeper understanding of the RPO framework (regulations, targets and compliance) through insightful visualisations.
 - Esp. when RPO framework is undergoing significant change.
 - New Categories; Storage (ESO); Green Markets etc.

LEARNINGS & INSIGHTS

RPO Regulations, examples from few states

- Incorporating changes in RPO framework/regulations
 - New regulations (MH, AP)
 - Through multiple regulations (Delhi, RJ)
 - Amendments in existing regulations (Kar)
- Many variations in several important provisions
 - Net Consumption
 - Fungibility, Penalty, Carry Forward
 - HPO, Large hydro as RE
- Compliance verification
 - Timelines ; Details of process; Data reporting and standard formats

RPO Compliance Data availability

- Data from public domain only for 60 DISCOMs (12 years)
 - 4 States (CH, AP, HP, MP) have shared data in response to our query to all States.
- Many variations in data reporting across states
 - High level of disaggregated annual data
 - E.g., MH, Karnataka, Goa and UTs (except), HP
 - Basic level of data
 - Net consumption, Target (% and MU), Compliance (% and MU)
 - E.g., Gujarat, UP
 - Insufficient data
 - Target (% or MU) and Compliance (% or MU)
 - E.g., UK, Haryana, AP, RJ
 - No public data that we could find
 - E.g., TN, Odisha, Kerala

Different approaches adopted for RPO compliance by States

- Proceeding frequency
 - Annually (Bihar, Karnataka); Frequently (GJ, MH, UP, Delhi, etc.)
- Type of proceedings
 - True-up orders (MH, Bihar, Karnataka, etc.); Petition or Sou-motu orders (UP, MP, MH)
- Fungibility
 - Allowed (GJ, Bihar, Karnataka, etc.)
 - Even across DISCOMs in Bihar, Karnataka (one specific year)
 - Not allowed (MH, Goa and UTs)
- Data reporting for DISCOMs
 - Consolidated by Holding company (GJ, UP, MP); Separate for each DISCOM (MH, Bihar, Delhi)

Different approaches adopted for RPO compliance (2)

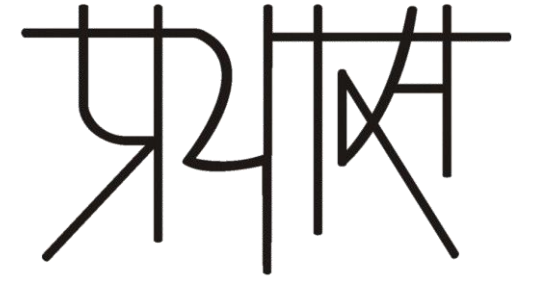
- Carry forward
 - Shortfall allowed, Surplus not allowed (Goa, UTs)
 - Shortfall and surplus allowed (MH, UP, Punjab, Bihar)
 - Both not allowed (GJ, Karnataka, etc.)
- Penalty or amount deposition ordered for shortfall
 - Imposed (Delhi-annually, UP); Not imposed (Most states in spite of shortfall)
- Gujarat
 - RPO compliance targets revised based on weighted average RE procurement by DISCOMs
- Maharashtra
 - REC bought in present years adjusted for past years shortfall
 - Strict orders for improving compliance reporting by Obligated entities

Requirements for understanding RPO compliance

- Timely proceedings from SERCs on RPO compliance with detailed data reporting
 - E.g. Net consumption, disaggregated by RPO type, RECs, GDAM, penalties etc.
- Some level of basic standardisation needed across states
 - Leaving room for flexibility, innovation.
- Possibly revised Model regulations by FoR
 - Esp. w.r.t. net consumption, penalty, compliance verification (and its timelines)

Next steps for India RE Data Portal

- For RPO portal
 - Older regulations with summaries; consolidated regulations
 - Cumulative compliance, carry forward and fungibility analysis,
 - Search option
- Enhancing the India RE Data Portal (www.indiaredata.org)
 - Migrate the existing [RE Data Portal](#) visualisations on RE capacity, generation, prices, REC, GTAM, Potential etc.
 - New RE data visualisations
 - Analysis of other RE regulations



Prayas (Energy Group)

THANK YOU

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