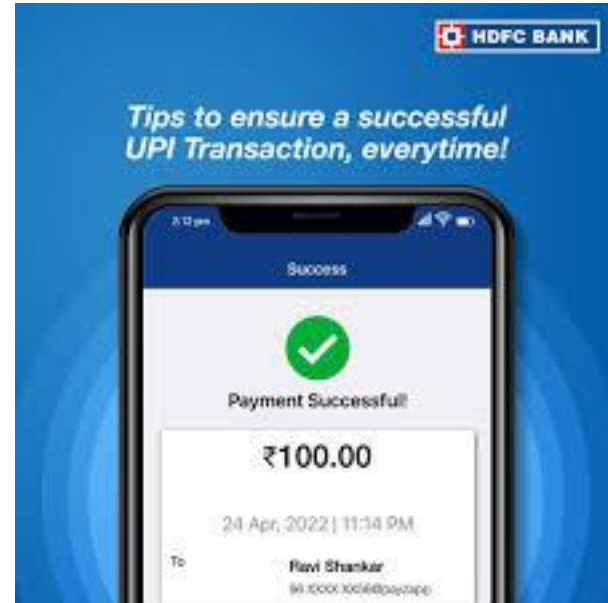
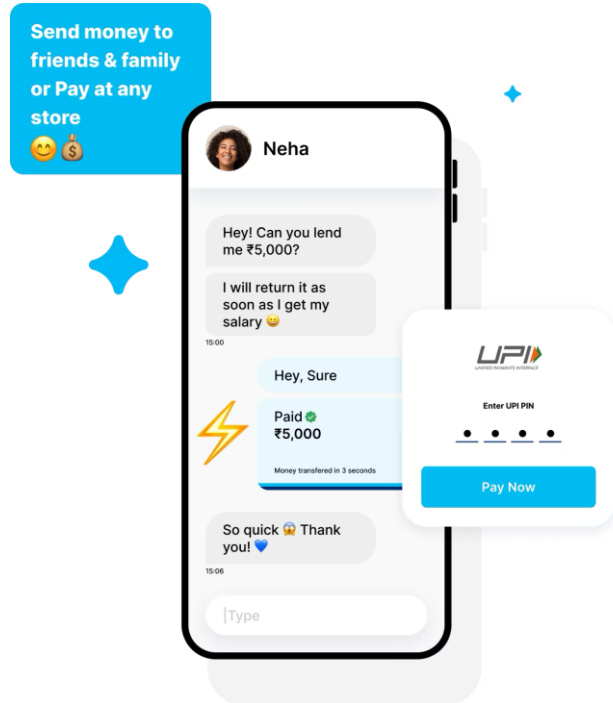


Empowering the AMI-SP Ecosystem

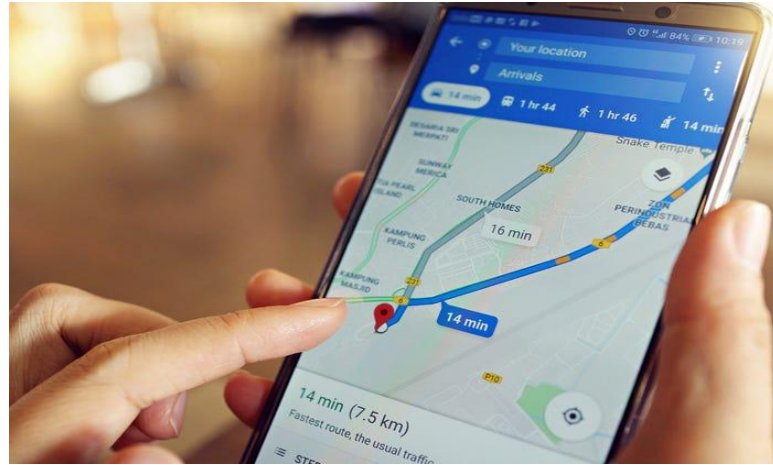
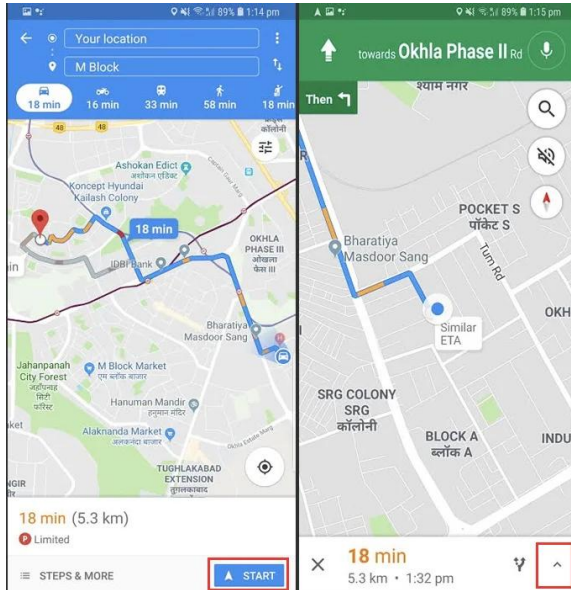
- ✓ Wish list – **Quality of Power Supply / Consumer Acceptance**
- ✓ Role of Govt (MoP, REC, CEA, Policy makers ,Regulators, DISCOM)
- ✓ Testimonials – Key Drivers
- ✓ Leveraging AI/ML – **Interoperability & Real Time monitoring**
- ✓ Safety & Confidentiality – **Cyber Security**
- ✓ Smart Homes as a Future – **Meter as a HUB**
- ✓ Way forward

UPI /Banking App users get Real Time Status building Consumer Confidence



Google map users get Real Time Status & Analytics

User takes Informed Decisions



Vision - Honourable Minister (MoP) ,Govt of India



*“NFMS, a flagship initiative of Ministry of Power, entails access to detailed information related to **real time(,)** **hours of power supply, power outages and overall health** of ~2.5 lakh feeders (11 KV outgoing) across the country. This system will enable stakeholders to make informed and actionable decisions, thereby bringing in transparency, efficiency and accountability to distribution utilities (DISCOMS), ultimately improving the quality and reliability of power supply to the end consumers. The project involves integration of master as well as transactional data with 87 Discoms.....monitor and analyse **real time data from multiple sources** and maintain the data sanctity in the NFMS portal”*

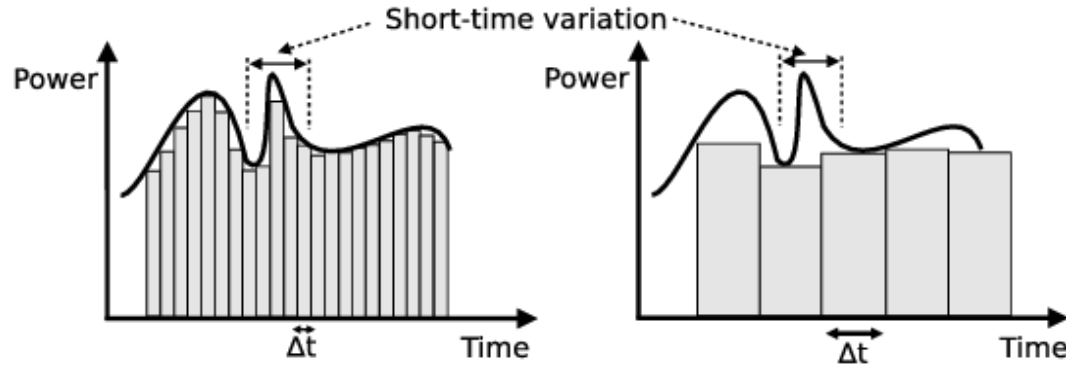
(Data- delays of > T-1 days)

Lok Sabha Starred question 307

Answer by MoP :

Data gathered as part of the two-way communication in a smart metering solution will help utilities to improve their load forecasting, which will help them in optimizing their power procurement thereby reducing the cost of power supply. The direct impact of this feature will be on reducing the ACS-ARR gap and AT&C losses of the DISCOM which will ultimately benefit end consumer. Further, a smart meter captures consumer profile, consumption pattern and provides real-time information to consumers to plan their usage of electricity.

What is Real Time ? How is it achieved at NIC + HES ?



- ✓ Mandates Higher sampling rate – Higher granularity- > data points > accuracy
- ✓ Means Data acquisition < 90 sec – like online live streaming
- ✓ Requires Faster processing and computing thru use of Edge Intelligence
- ✓ Reduces the burden of computing on the cloud –faster computing

(real time in the true sense explained in simple terms no delays / buffering) 

In the world of AI tech, do you just want a meter to be smart or need it to be Intelligent ?

Case in Point -JPDCL – Real Time –Feeder/DT Data



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Feeder Master Data

[MI Image](#)
[+ Add Remark](#)
[View Remark](#)

Feeder Name : NEW VAISHNO DEVI

Feeder Code : KTR-TA01

Substation Name : 33/11 TARAKOTE

Sub Division Name : KATRA

Division Name : ED-REASI

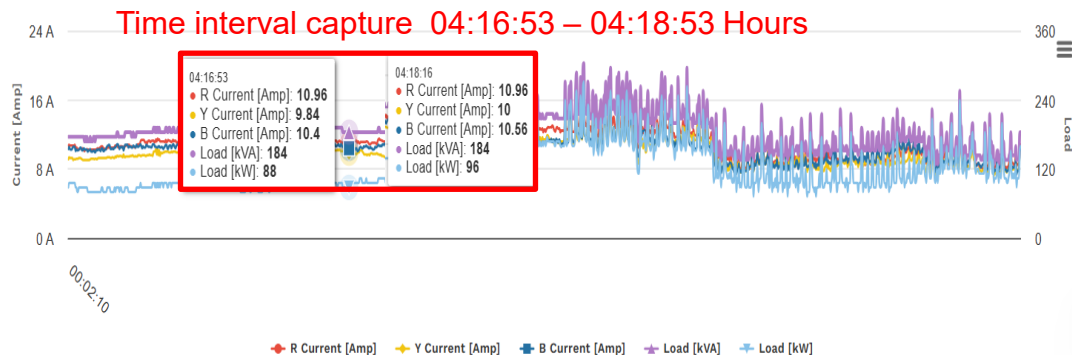
Circle Name : BATOTE

Zone Name : JAMMU

Discom Name : JPDCL

Load Trends

2025-10-29



Case in Point –UPPCL(PvvNL,MvvNL,PuVNL) – Real Time – Pre Paid Multi Point Consumer Data



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Overview



Recharge



Account Info.



Reports

Site: Prateek Grand City

Account Information

My Profile

Flat ID:

50002116021101

Name:

Nikhil Pratap Singh

Flat No:

P2-1101

Flat/Shop :

50002116021101 (P2-1101)

2025-10-29 00:00:00

2025-10-29 23:59:59

--Select--

Show

Export to Excel

Load Survey

Time interval capture 16:43:35 – 16:45:12 Hours

Flat-ID	Reading (kWh)	Reading (kVAh)	Load KW	Load KVA	Date-Time	Balance Amount
50002116021101	10888.0000	11104.0000	0.130	0.140	2025-10-29 16:45:12	2427.06
50002116021101	10887.0000	11104.0000	0.030	0.040	2025-10-29 16:43:35	2433.56

Outcomes

- ✓ Enhances data quality
- ✓ Improves SLA
- ✓ Complements cybersecurity
- ✓ Timely actionable notifications for preventive maintenance for the Utility
- ✓ Load balancing – Unbalanced DT's (Major cause of DT Failure and AT&C)
- ✓ Demand side response thru consumer participation (ToU, ToD etc)
- ✓ Scheduling between Grid and Solar - P2P , V2G etc
- ✓ In future will support energy exchanges for consumers
- ✓ Overall enhancement of consumer experience and confidence

Way Forward

- ✓ Adopt the best practices & technologies –validate
- ✓ Keep pace with AI/ML, weave it in fabric of the power sector
- ✓ Policy makers , Regulators and DISCOMs pls demand -Interoperability & Real Time
- ✓ Safe guard the investments from ills of obsolescence and ignorance
- ✓ Work towards drawing the best outcomes for every rupee spent
- ✓ Promote Make in India
- ✓ Make the RDDSS & many other such Govt. schemes a success , work towards...



Thank You ,

For Radius International Synergies Pvt Ltd

Jaideep SINGH

Advisor – Strategy & Investments