

## Host Utilities



Co - Host Utilities



## ORGANIZER



# India SMART UTILITY Week 2024

## Supporting Ministries



**Session :** Challenges being Faced by Discoms, AMISPs and OEMs in India and New Services for Smart Meter Customer

## PRESENTATION TOPIC

*Presented By*

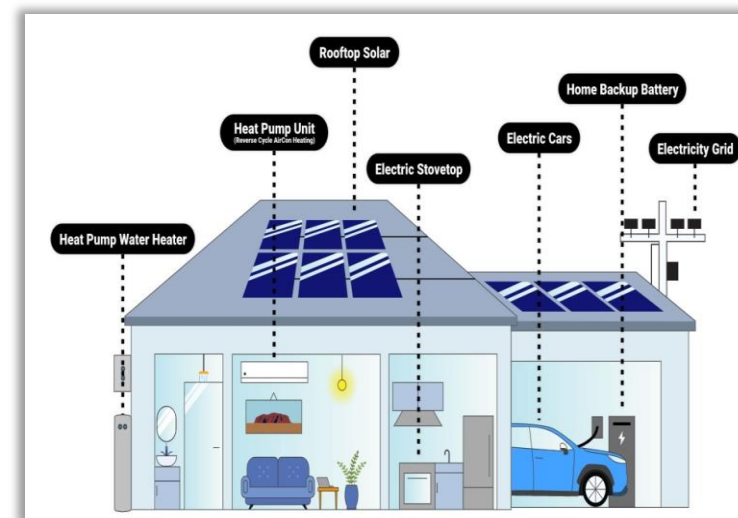
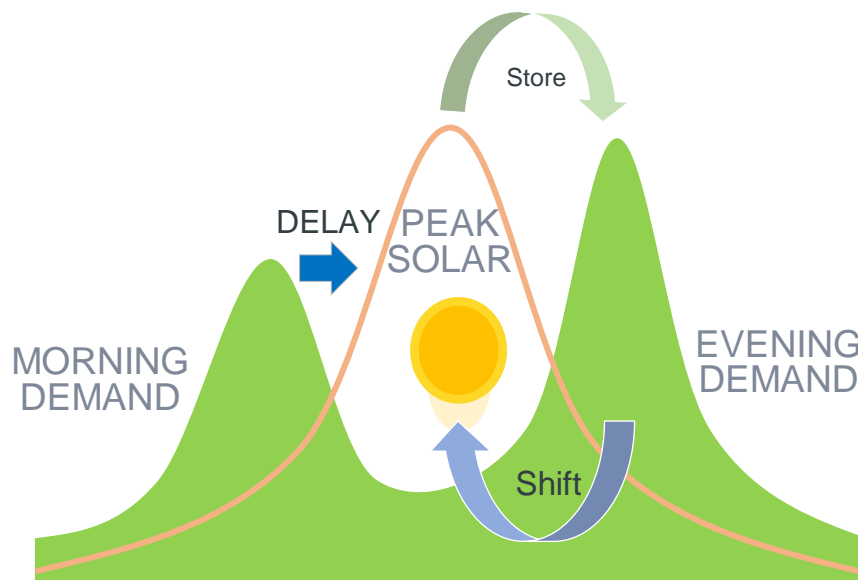
**Paul Nelsen, Vice President APAC, Itron Inc.**

# The Energy Transition



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# The Role of the Distribution Company is Changing

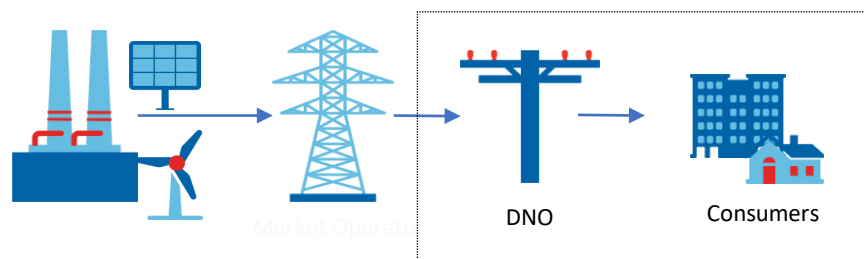


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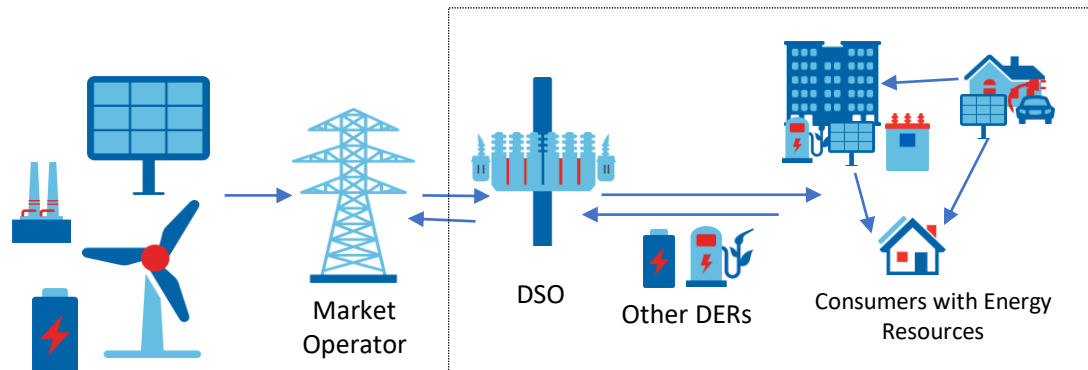
## Traditional Role: Demand Satisfaction

- Planning, Maintenance, and Management of Distribution Networks to Meet Peak Demand
- Keeping the lights on through Management of Supply, Outages, Power Quality, and other network disruptions



## Added Role: System Optimization

- Optimize Network Investment using DERs
- Use Data to enhance network flexibility and Maximize DER Penetration
- Manage Network Congestion
- Manage Peak Loads, Local Generation and Storage to enable as much embedded renewables as possible.



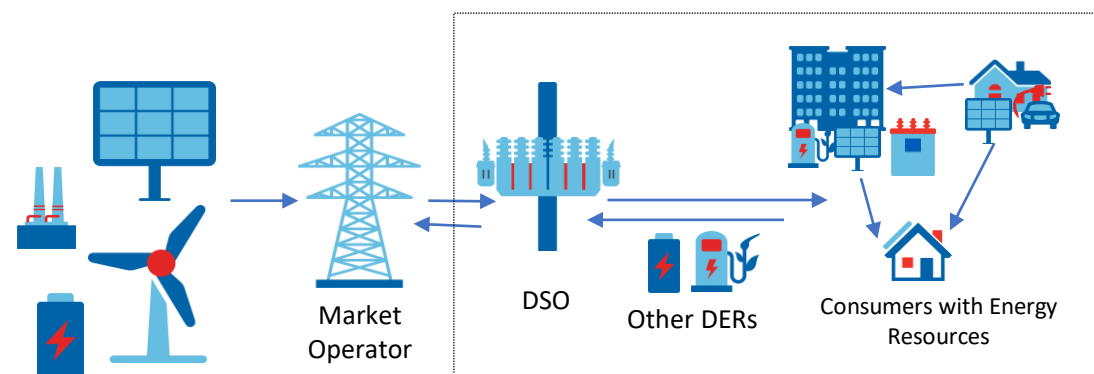
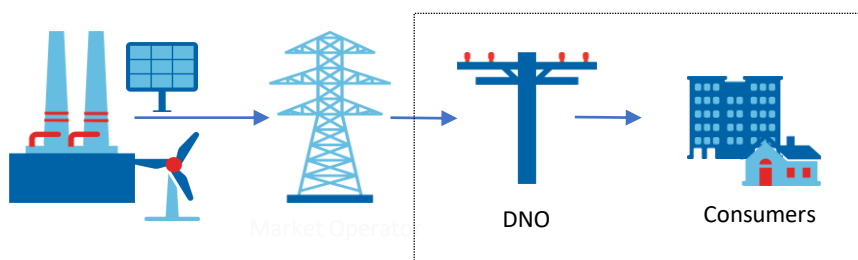


# The Scale and location of the Problem is Changing

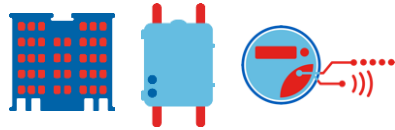


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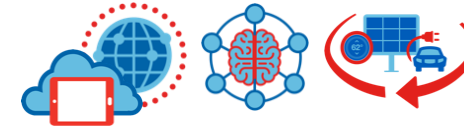
## From “Meter to Cash” to Grid Edge Management



### AMI

#### Meter-to-Cash

- Solid-state metering
- Network-based reading
- Two-way communications to the meter
- Basic outage and restoration notification
- Integration into OMS/ADMS
- Over-the-air meter firmware upgrades
- Backoffice data analysis
- Data management applications
- Improved customer service



### Grid Edge Management

#### Edge Computing & Real-time Data Analytics

- Real-time Control and Visibility of Edge Applications
- Distributed data processing, analysis and control at the edge
- Linux Computer in Every Endpoint (meter/sensor)
- Downloadable applications to the device (apps vs Firmware)
- Load control and active demand response
- DERMS visibility and control
- Power and voltage quality monitoring
- Real-time Integration with ADMS & control systems

# THANK YOU

*For discussions/suggestions/queries email: **isuw@isuw.in***

*visit: [www.isuw.in](http://www.isuw.in)*

*Links/References (If any)*