

# Utah Governor's Energy Summit

May 21, 2015

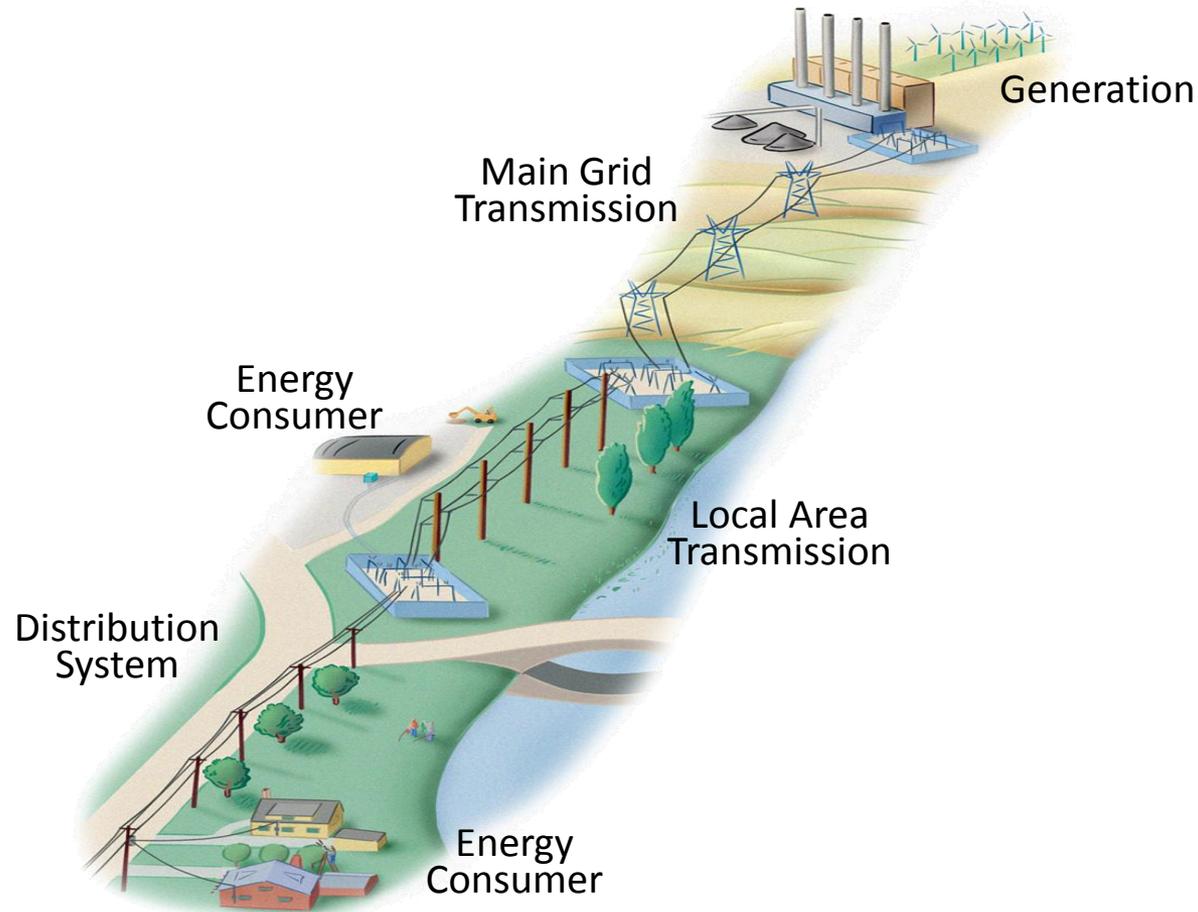
**Douglas Marx**

Engineering Standards & Smart Grid

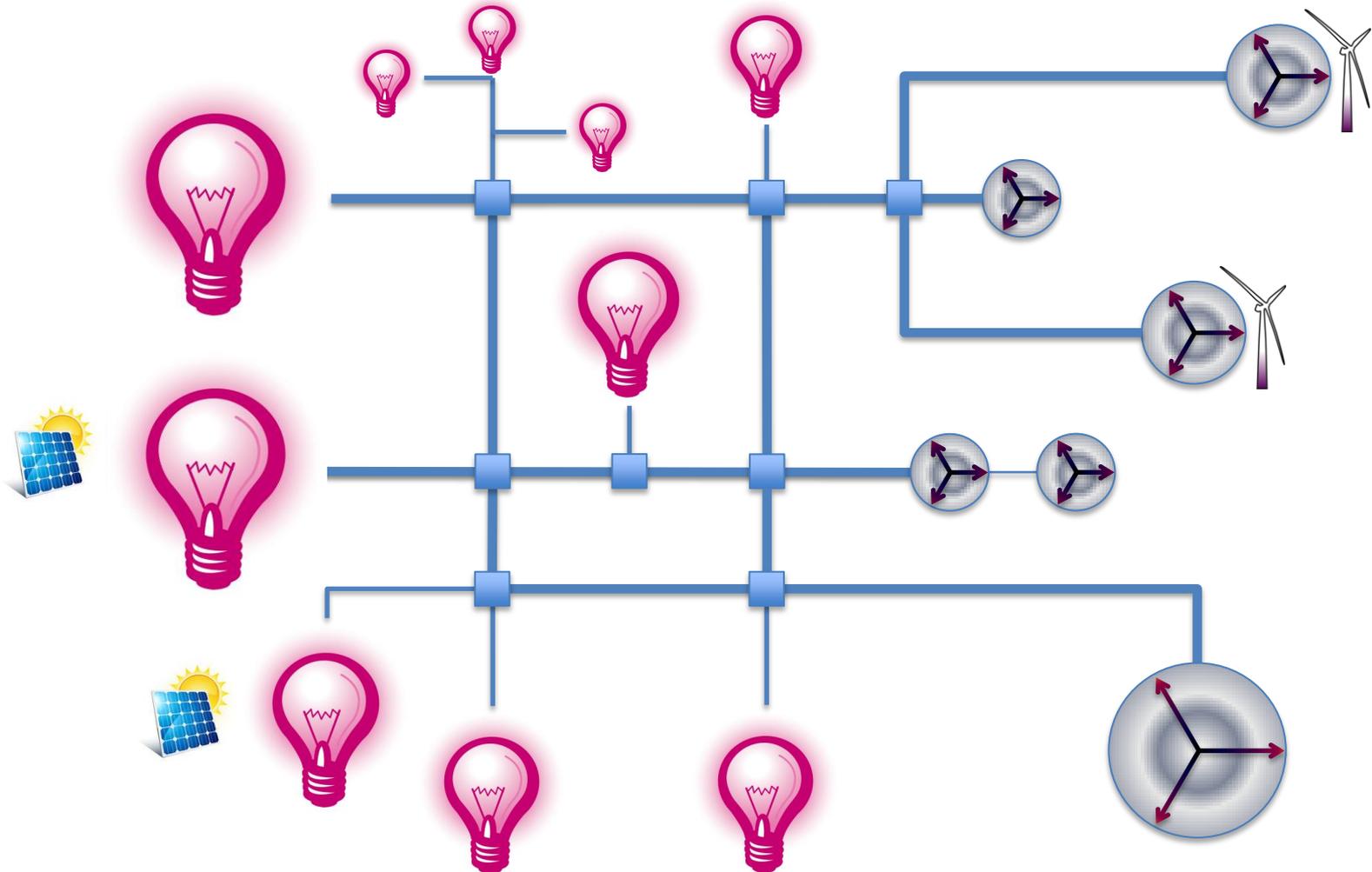


*Let's turn the answers on.*

# Electric Grid Components



# The Evolution of the Electric Grid



# Challenges and Opportunities

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## Challenges

- Changing user needs
- Utility adaptation
- Infrastructure
- Operational
- Regulatory

## Opportunities

- Customer Service
  - Full needs
  - Partial needs
  - Off grid
- Infrastructure
- Operational
- Regulatory

# Future Role of the Electric Utility

- Manage the Grid
  - Reliable and Efficient
- Customer Support
- Generation Resources
- Energy Efficiency
- Metering Services



