

Deferring Utility Investments through Efficiency & Demand Management

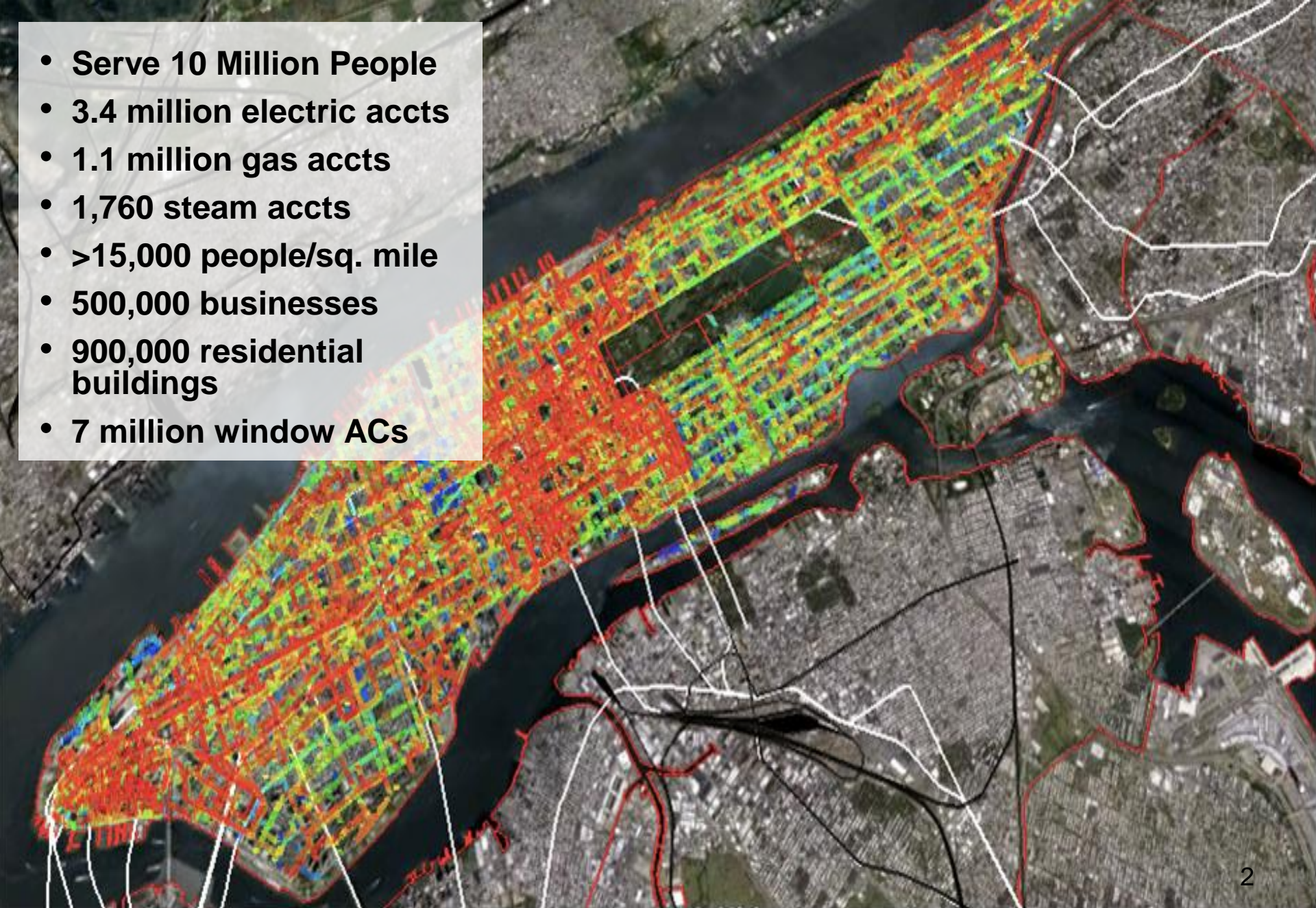


April 4, 2017

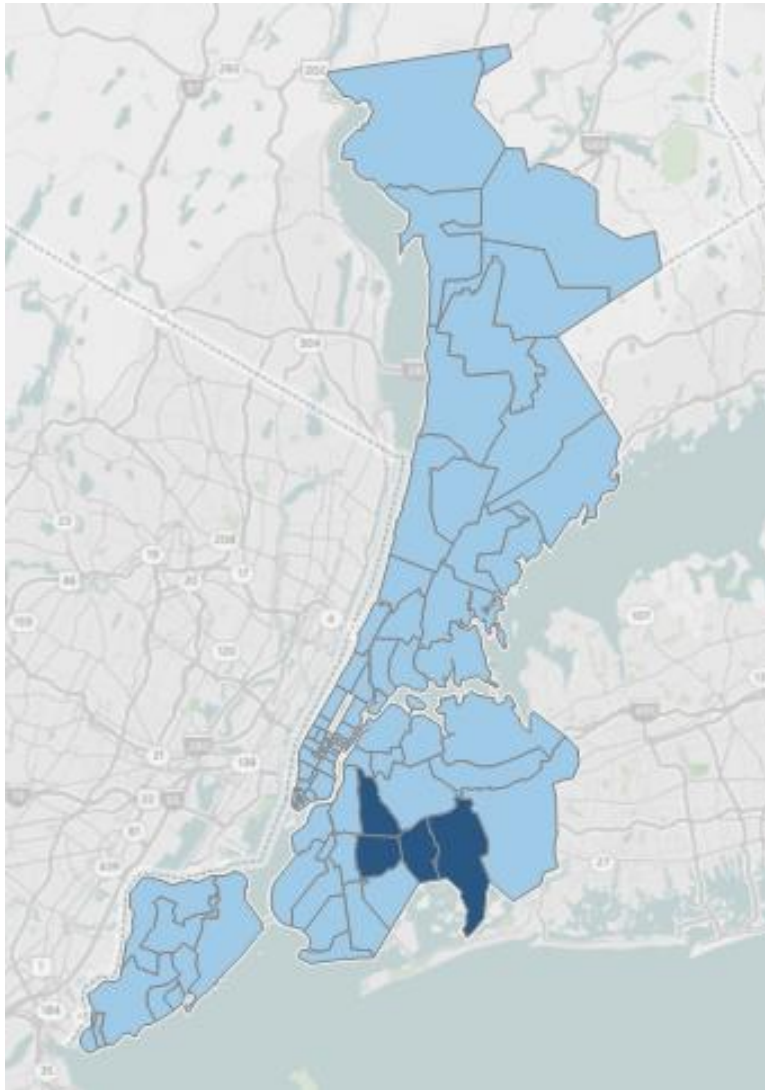
Jesse Feinberg

ACEEE

- **Serve 10 Million People**
- **3.4 million electric accts**
- **1.1 million gas accts**
- **1,760 steam accts**
- **>15,000 people/sq. mile**
- **500,000 businesses**
- **900,000 residential buildings**
- **7 million window ACs**



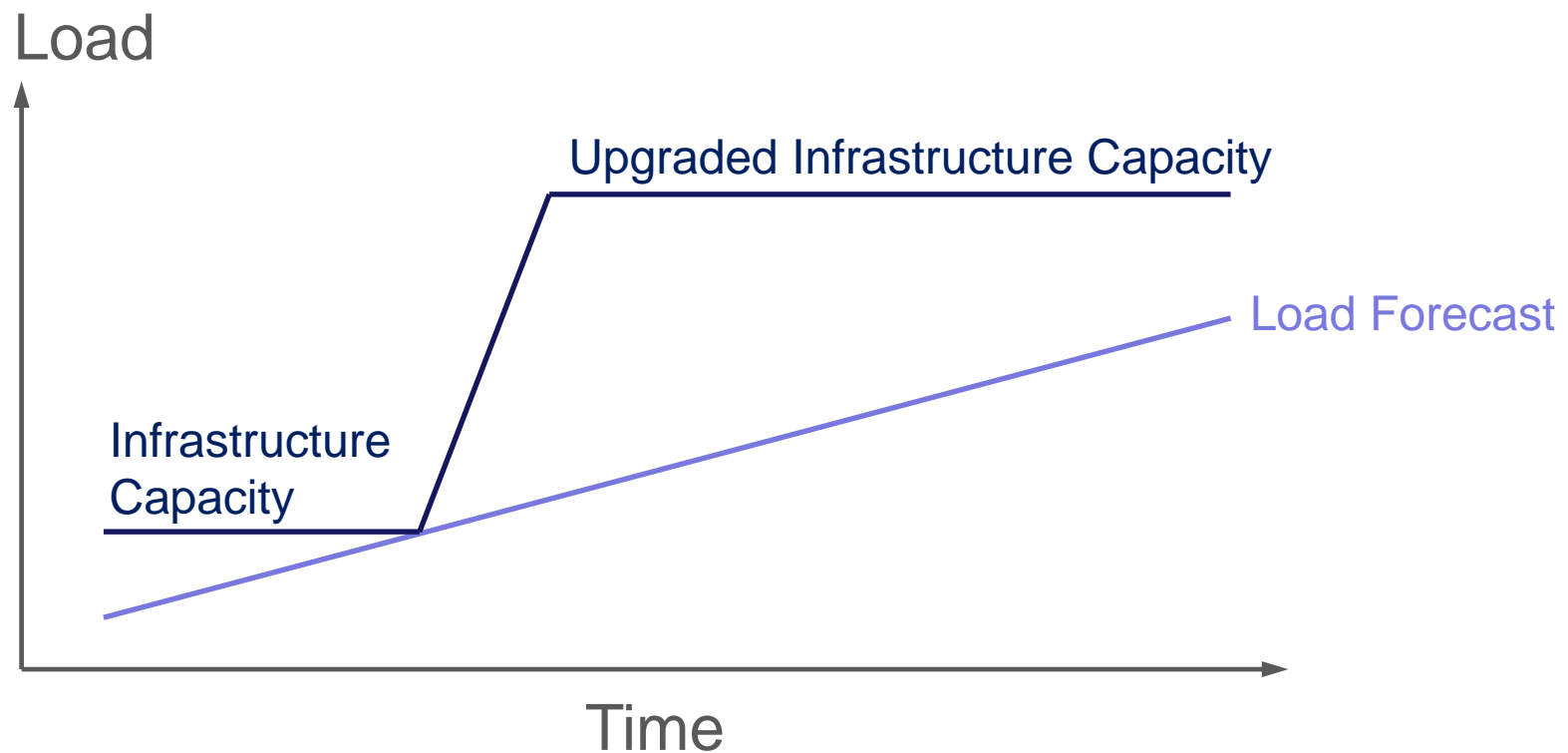
The Story of BQDM



- Subtransmission feeders overloaded for 12 hour peak
- Require \$1B substation infrastructure upgrade
- Defer \$1B through \$200M efficiency, distributed generation and storage

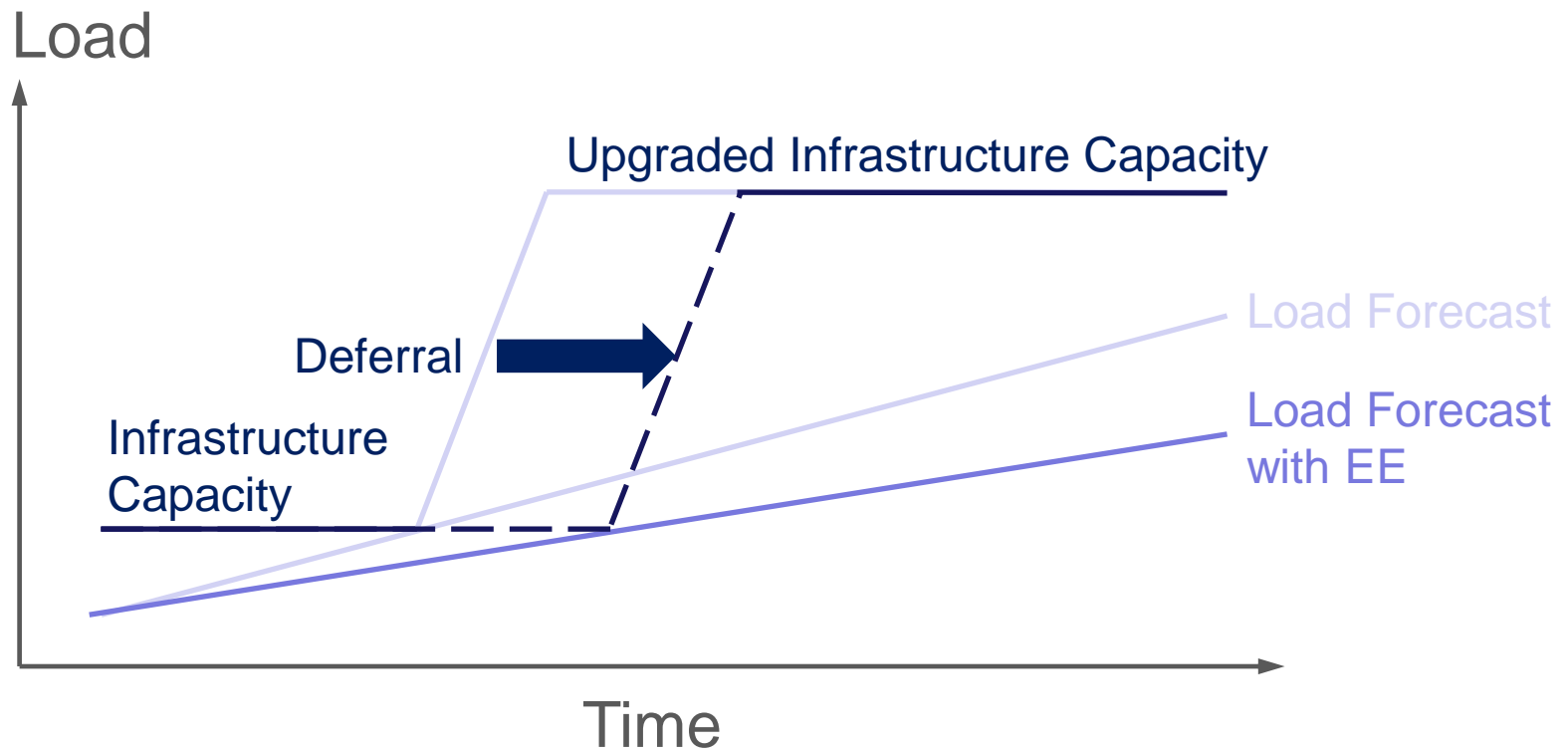
Integrating EE & DM into Operations

- Traditional approach: build capacity based on forecast



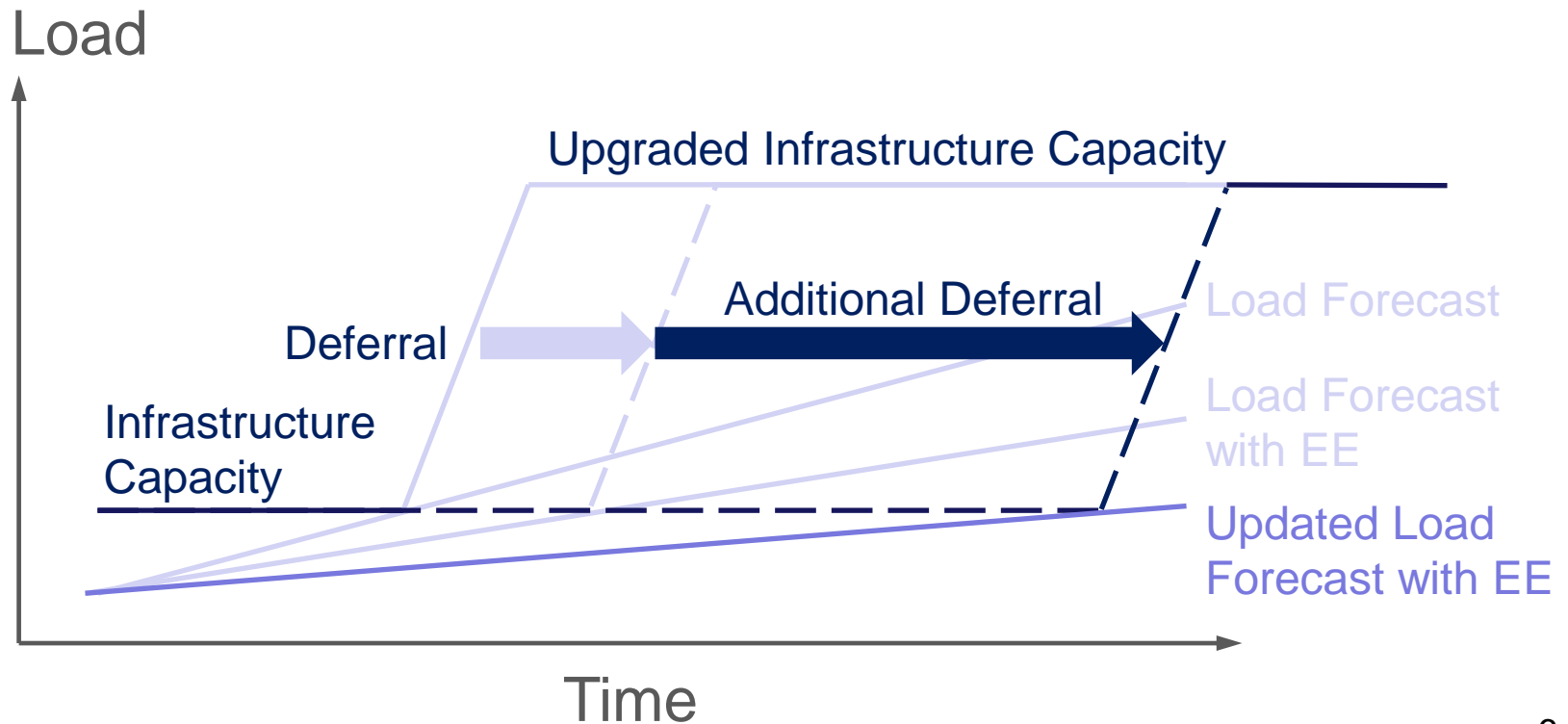
Integrating EE & DM into Operations

- Non-wires alternative (NWA) approach: lower forecast through ED/DM to defer upgrade

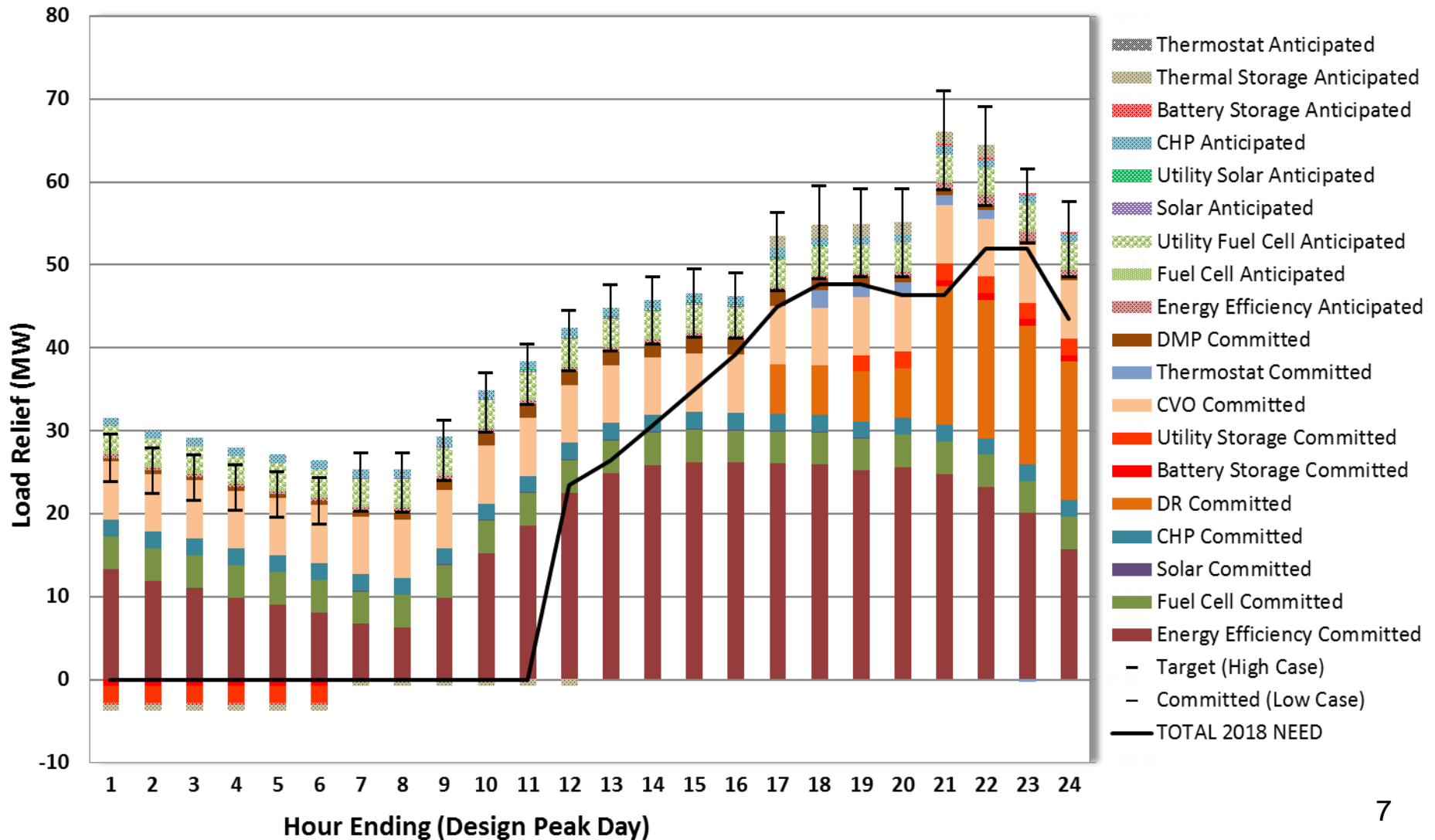


Integrating EE & DM into Operations

- NWA BONUS: Deferral yields flexibility in face of potentially changing forecasts

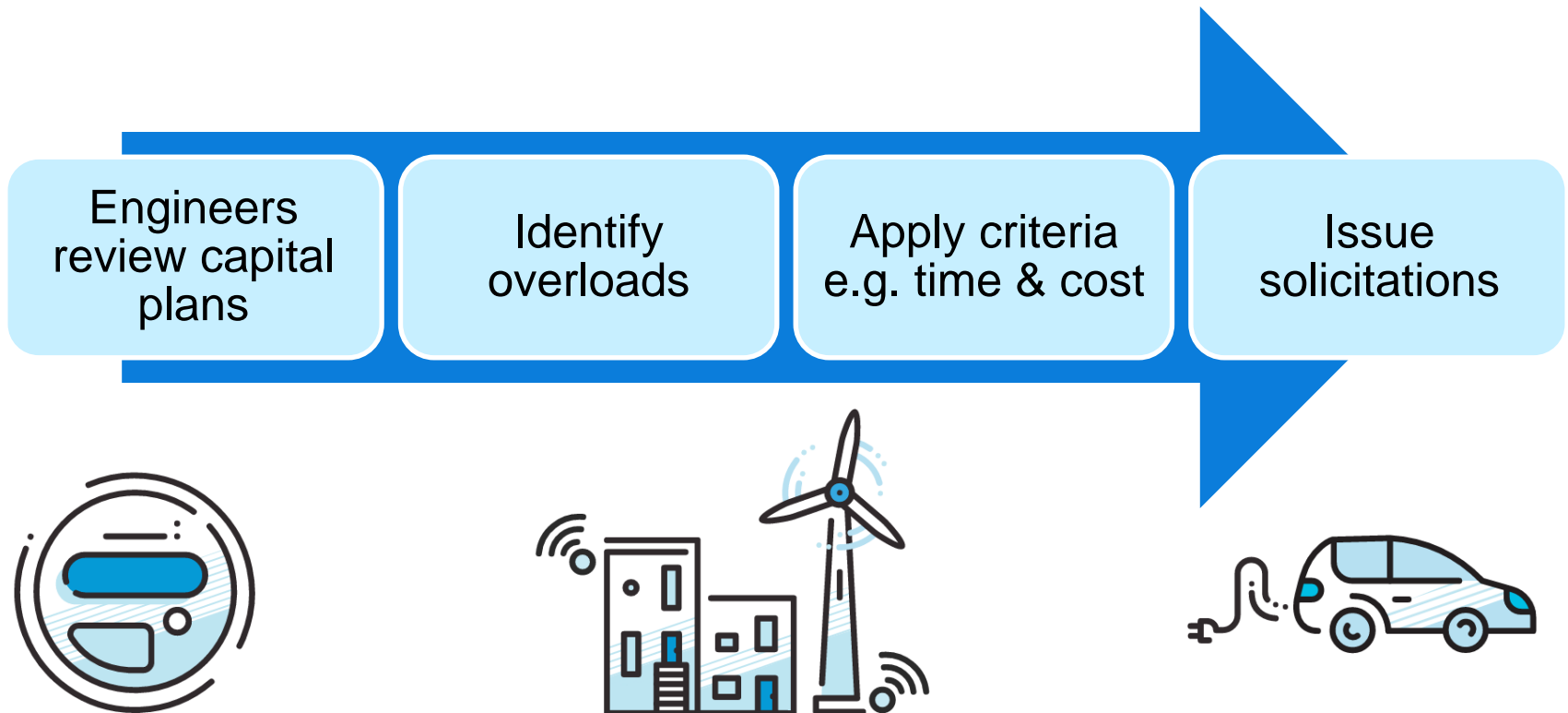


BQDM Summer 2018 Outlook



Identifying Future Projects

- Utility identified new candidate projects in 2016 filing



What's Next? Going to Market

