Utilities Reliability and Energy Transition (UR&ET) Program—Starting Project

Facilities and Campus Services – Energy and Sustainability

B&P/Finance Committee Trustee endorsement October 2026

1. Adopt the recommended scenario as the Utilities Reliability and Energy Transition Master Plan
2. Execute the first 5-years of the Master Plan ($93M) *(will go through capital approval processes)*
   - Foundational Projects ($71M)
   - Pilot Borehole Thermal Energy Storage ($22M)
3. Revisit and update Master Plan policy, tech, and financial assumptions in 2028

Set Direction. Start Prudently. Preserve Flexibility.

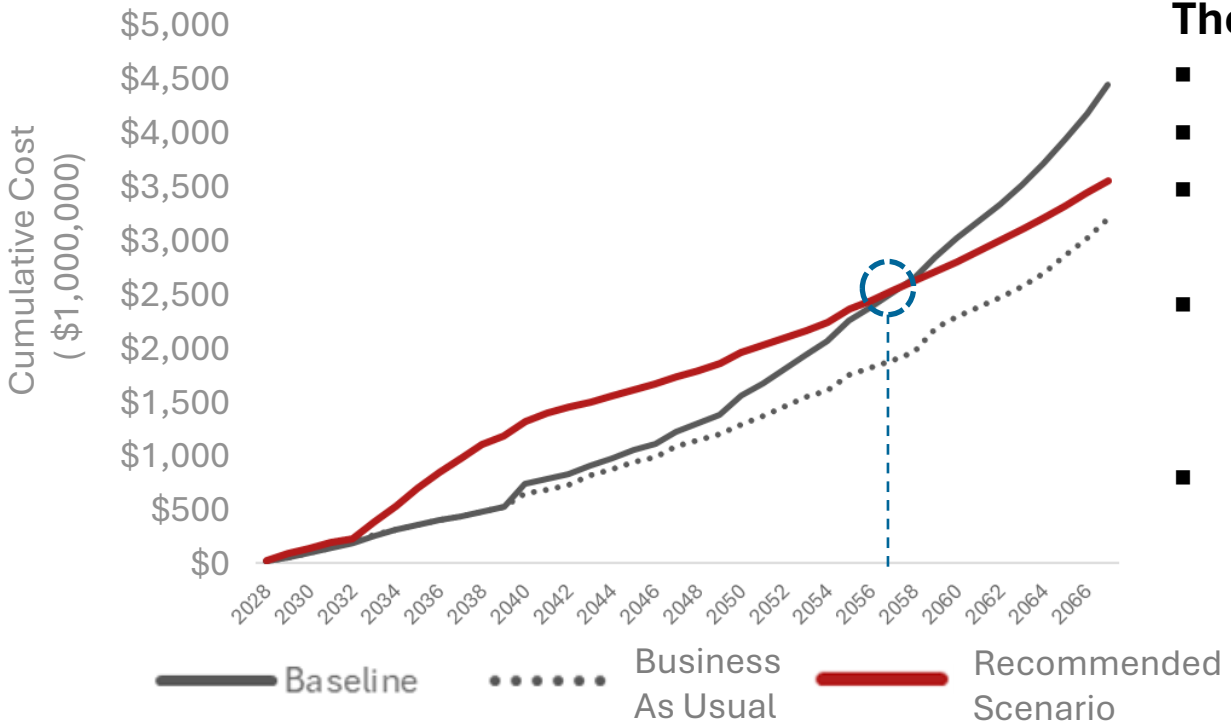
Three scenarios were developed for a 40-year analysis.

Business-as-Usual*	Baseline	Recommended Scenario
$1,090M	$1,411M	$1,447M
NET PRESENT COST	NET PRESENT COST	NET PRESENT COST
Operate the CHP in perpetuity	Electrode Boilers Minimize CapEx High OpEx	Geothermal Higher CapEx Lower OpEx

*Does not comply with NYS Law

Note: Net Present Cost includes capital, O&M, and regulatory costs

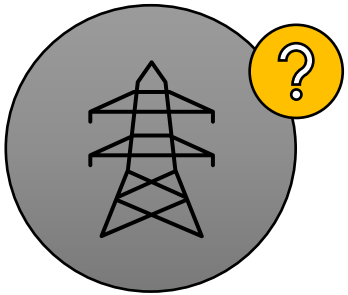
Recommended Scenario outperforms Baseline over time



The Recommended Scenario:

- The affordable option
- Better system reliability
- Reduces exposure to the NYS electric grid market
- Federal, state and research grants reduce costs (minimum of $74M, not included in PV)
- Lowest emissions

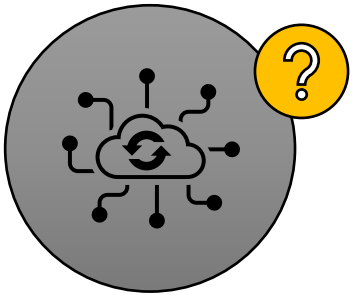
There are significant near- and long-term uncertainties and nuances that require judicious planning.



NY grid transition to clean power



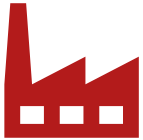
Evolving NYS regulations



Rapidly evolving technology and markets

Build foundational projects that preserve optionality and serve critical reliability needs

$71M



Production

- Chilled Water Renewal at CWP3
- Add chilled water capacity CWP2

Reliable cooling on the hottest days of the year



Distribution

- 4 Hot Water conversions

Replacing up to 110-year-old buried steam pipes



Consumption

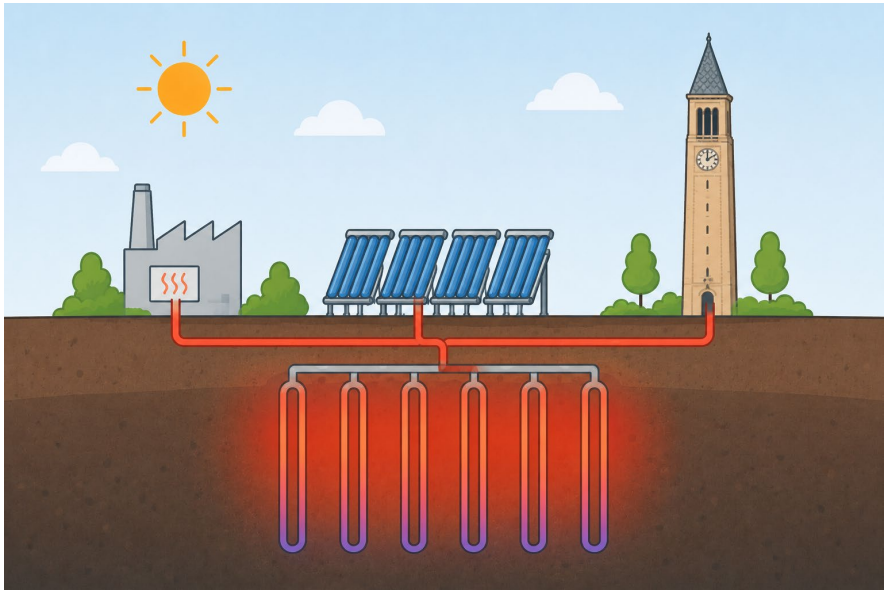
- 18 Hot Water building conversions
- 10 Heat Recovery projects

3-year payback for ECI projects (including avoided CapEx)

Pilot Borehole Thermal Energy Storage on East Campus

$22M

- **Tightly cluster 500-900ft wells optimized for heating**
- **Immediate Benefits**
  - Improves efficiency of current system (waste heat capture)
  - Major learnings in design, construction and operation
  - Living Lab engagement
  - State and Federal funding
  - Demonstrates progress to the community
- **Execution in phases**



Project Communications

- Executive Summary of Jacobs Master Plan posted to website
- Mid Nov
  - Cornell Chronical article
  - Full master plan report posted
  - Abridged (less technical) version will also be posted
- Continue to produce information for website---one pagers, FAQ, etc.

Scan the QR code to explore the master planning process further!

Questions?

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