



Digitizing Utilities Prize Round 2

Progress Phase & Demo Day
August 2024

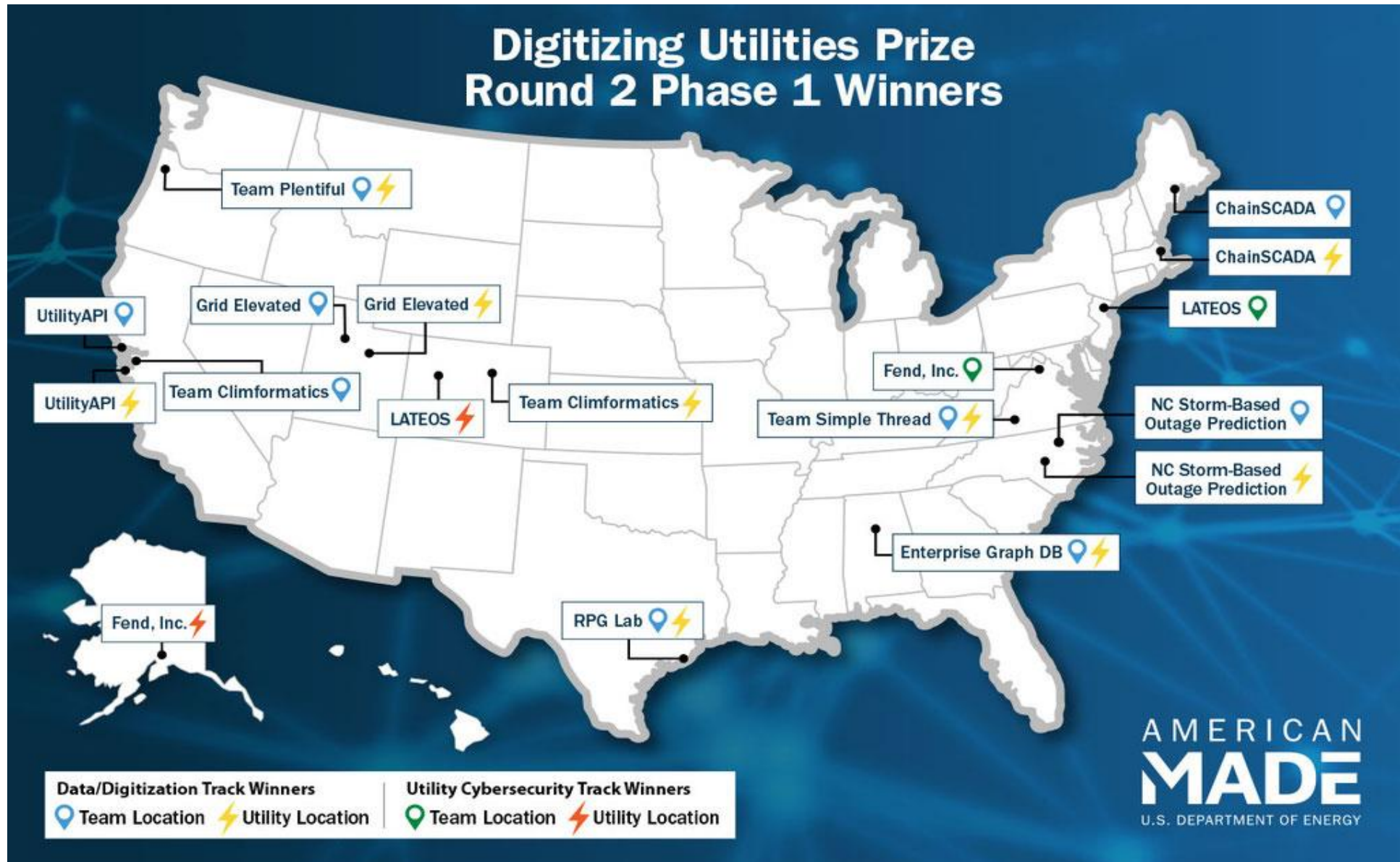
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Agenda

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Congratulations to Plan Phase Winners!



Congratulations to Plan Phase Winners!

Team	Utility Partner	Submission Topic Area
ChainSCADA	Hingham Municipal Lighting Plant	Blockchain For Field Device Authentication
Enterprise Graph DB Team	Alabama Power Company	Creation of an Enterprise-Wide Graph Database
Grid Elevated	Heber Light & Power	Using Advanced AI For Data Analytics
NC Storm-Based Outage Prediction	North Carolina's Electric Cooperatives (NCEC)	Predictive Weather Analytics For Outages
RPG Lab	CenterPoint Energy (CNP)	Grid Maintenance And Upgrades For EV Integration
Team Climformatics	Xcel Energy	Climate & Weather Mitigation
Team Plentiful	Portland General Electric (PGE)	Streamlining DER Interconnections
Team Simple Thread	Dominion	Hosting Capacity Assessment & Mapping
UtilityAPI	Silicon Valley Clean Energy	Vendor Connectivity for Data Exchange
Fend Incorporated	Matanuska Electric Association, Inc (MEA)	Physically Blocks Cyberattacks and Unlocks Trapped Data Sets
LATEOS	Holy Cross Energy	Identifying the cyber threats that can produce the largest disruptions of a power system operation.

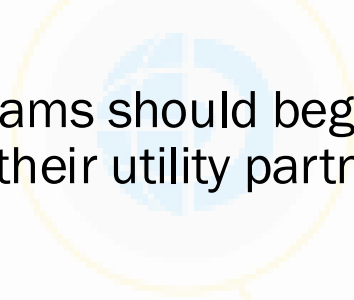
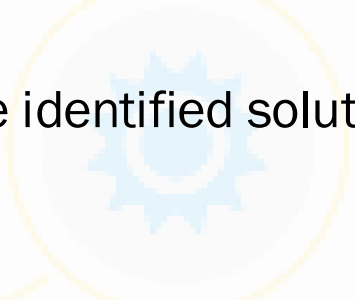
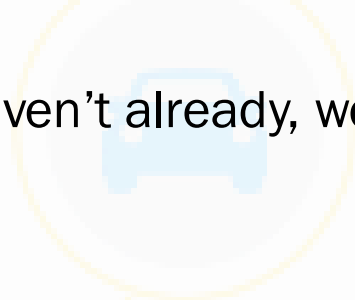
Progress Phase Overview

Progress Phase

All teams should begin, if you haven't already, working on the identified solution with their utility partner.

Teams should be working with their utility partner throughout this Phase to develop & refine their solutions that addresses the issues their utility partner(s) are facing.

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Progress Phase - Prizes

Utility **Digitization/Data** Challenge Track

Prizes

Up to three winners will win:

- \$200,000 cash each
- \$75,000 national laboratory voucher

Utility **Cybersecurity** Challenge Track

Prizes

Up to 1 winner will win:

\$300,000 cash

Phase 2: Progress – Submission Details

Materials to Submit

1. 90-second video (public)
2. Cover page
3. Narrative that answers four questions
4. One summary PowerPoint slide (public)
5. Required letters of commitment or support from utility partner

Where to Submit

- Submit all materials online on the official prize platform HeroX:
<https://www.herox.com/DigitizingUtilitiesRound2>
- Use HeroX to review official Prize Rules, ask questions, and receive updates

Narrative Questions

Question 1: Team & Problem Overview

What problem were you trying to solve?

Question 4: Solution Validation

How was your solution tested and validated?

Question 2: Solution Implementation

Did you achieve the goals identified in the Plan Phase?

Question 5: Future Plans

What is the potential impact of your work moving forward?

Question 3: Solution Impact

What benefits were provided to the team's utility partner?

Question 6: Voucher Plans

Letters of Support/Commitment

A detailed letter of support from your utility partner is required. It should not be longer than 2 pages.

Your utility partner's letter of support should highlight:

- Your continued relationship with your utility partner (including any solution demonstrations),
- Any progress and successes achieved during the Progress Phase, &
- Your utility partner's ongoing support and their overall experience.

Teams may also optionally include other letters of support/commitment from other relevant entities to provide context.

Teams should not include any general letters of support/commitment that are not critical to the execution of your solution

Demo Day

Demo Day

This is a **required event for all competitors**, whether competing in the Utility Digitization/Data Challenge Track or the Utility Cybersecurity Challenge Track!

Important Details

- **At least one team member** from the competitor team **must** be present at the Demo Day for the team to be considered for a Progress Phase prize.
 - Each team is allotted up to **2 presenters** who will each be given presenter access (camera/mic) on the day of the event.
- Teams will have 10 minutes to present:
 - A solution demonstration video (max. 3 minutes)
 - Presentation highlighting progress made and solution developed
- Each presentation will be followed by a **public Q&A** from the reviewer panel.

Demo Day

Don't Forget

- All Demo Day presentations will be made **public**. We advise each team to be aware of any information that should not be publicly shared/available.
- Teams are encouraged to invite colleagues and key partners outside of the two presenters to attend and contribute questions to the Q&A portion of your presentation.
- The 10-minute presentation allotment is a hard constraint. (Teams will be cut-off even if they have not finished their presentation.)

Teams should review the “Progress Phase – Virtual Demo Day Overview” document under the “Resources” page on HeroX.

Demo Day Schedule

Demo Day is **Tuesday, December 10.**

A finalized schedule will be released roughly 30 days prior.

Team	Presentation Time (Example)
Housekeeping/Introduction	9:00 a.m.
ChainSCADA	9:05 a.m.
Enterprise Graph DB Team	9:25 a.m.
Grid Elevated	9:45 a.m.
NC Storm-Based Outage Prediction	10:05 a.m.
RPG Lab	10:25 a.m.
Team Climformatics	10:45 a.m.
Team Plentiful	11:05 a.m.
Team Simple Thread	11:25 a.m.
UtilityAPI	11:45 a.m.
LATEOS	12:05 p.m.
Fend Inc.	12:25 p.m.
Closing Remarks	12:45 p.m.

Vouchers

Voucher Overview

The Progress Phase winners of the Utility Digitization/Data Challenge Track will be awarded a \$75,000 national laboratory voucher.

Teams should note:

- The national laboratory voucher can only be redeemed at a single national laboratory.
- The voucher must be exclusively dedicated to advancing the competitor's innovation.
- Voucher Statement of Works (SOWs) must be submitted to the Prize team at digitizingutilitiesprize@nrel.gov **within 90 days** of the Progress Phase Winner Announcement, or teams will lose their voucher.
- Remaining funds cannot be redeemed for cash.

Teams should review the Voucher Guidelines document in under the “Resources” on HeroX, particularly the terms and conditions listed in Appendix B of the official rules document.

Narrative – Voucher

Teams competing in the Utility Digitization/Data Challenge track must address the additional “Voucher Plans” section in their narrative submission within 750 words max.

Suggested narrative content includes:

- What type of work do you intend to complete using the national laboratory voucher?
- What impact will this voucher have on your solution?
- What are the future implications for your team/company if you receive a voucher?
- Briefly describe your potential plans and/or project scopes that you would submit if awarded a national laboratory voucher.
- Describe how both the team and utility will partner to maximize the use of the national laboratory voucher.
- Describe the expected cost-share to be provided by the team and/or utility.

Next Steps

Important Dates

- Submissions are due on November 14 at 5 p.m. EST.
 - Teams must submit all required documents on HeroX before this deadline.
- Demo Day is December 10 at 9 a.m. ET.
- Phase 2 Winners announcements are tentatively scheduled for January 13, 2025.

View all important dates on HeroX under the Timeline tab.

Contact Us

Should you have any questions or need further clarification, please contact us at: digitizingutilitiesprize@nrel.gov

