

The Downtown Reliability Project

Improving electrical system reliability in
the downtown core

Providence, RI

May 20, 2020

power4tomorrow

nationalgrid

DOWNTOWN RELIABILITY PROJECT



Agenda

- Welcome
- Project Need
- Project Overview:
 - Benefits
 - Route
 - Scope
- Typical Construction
- Project Timeline
- Communicating with Stakeholders
- Questions

Webinar Guide

➤ Audio Options

- Use your computer speakers or dial in to one of the available conference lines listed in your invitation
- To ensure the best experience, all participants have automatically been muted and video has been turned off

➤ To ask a question (all will be sent directly to host):

1. Click on the 'Chat' icon at the bottom of your screen
2. Type your question in the 'Message' box and hit send
3. All questions will be addressed at the end of the session
4. All chats are private and will not be seen by other participants

➤ Recording

- Today's presentation is being recorded and will be posted to **Power4Tomorrow.com** within 7 days

Project Need

- In recent years, the transmission lines that travel underground between the Franklin Square and Admiral Street substations have experienced an increasing number of failures due to the gradual deterioration of the cable system.
- The transmission lines are needed to maintain reliable electric supply to our customers in Providence.
- To improve circuit reliability, National Grid is replacing the existing cable system.
- **Without this project, the electric supply to the Providence area will continue to be at risk due to the compromised condition of the cable system.**

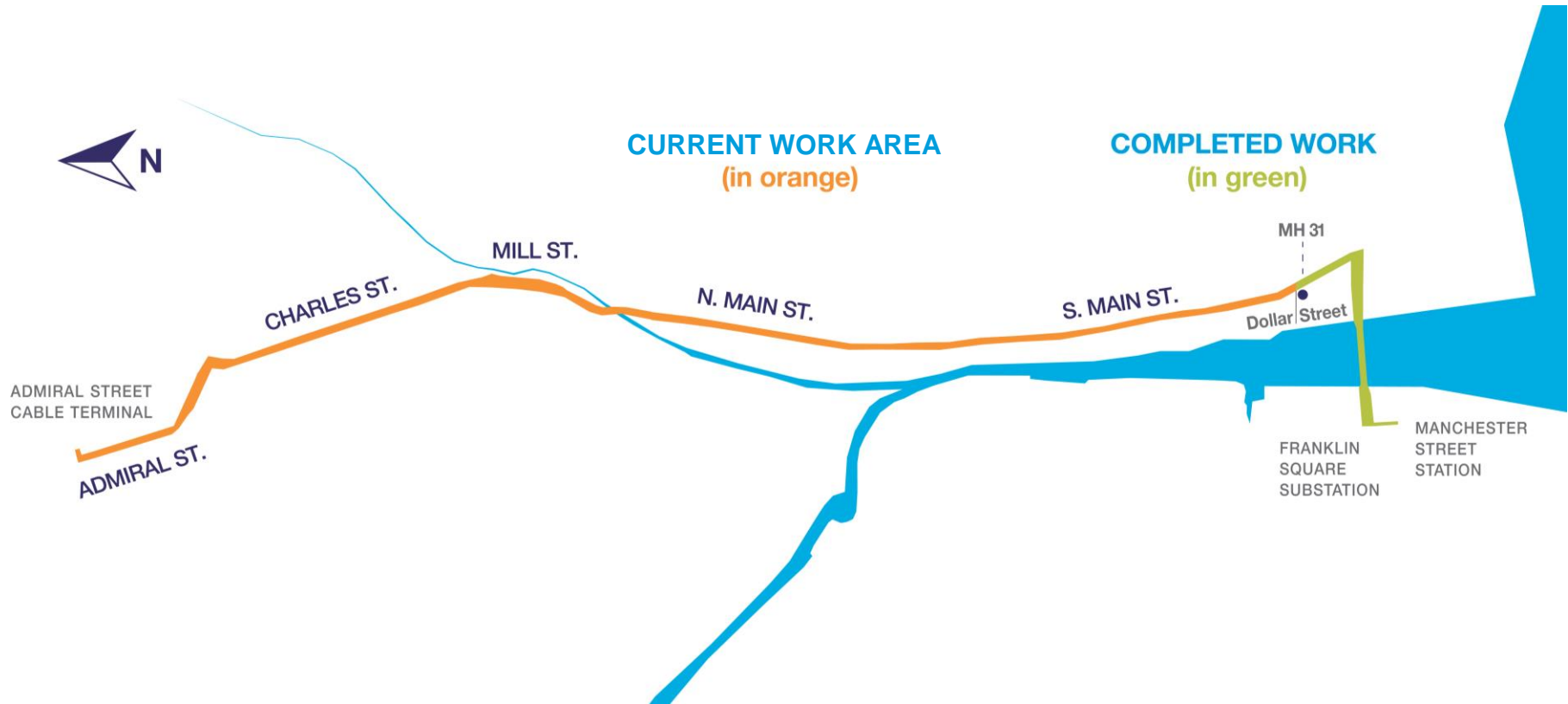
Project Overview

- Replace approximately 2 miles of existing underground transmission lines, located between the Admiral Street Cable Terminal and Dollar Street.
- Retire and replace existing manholes along the route which are not compatible in size and layout for modern cables.
- Entire project is located within existing rights-of-way, which includes travel lanes and sidewalks.

Project Benefits

- Improve reliability of the 115-kV transmission system serving Providence customers by replacing the existing cables that were installed in 1939 and 1946.
- Increase the capacity of the transmission lines, which provides greater transmission flexibility in the Providence area.
- Install modern cables that typically require less maintenance.
- Retire 70% of manholes along the project route.

Project Map



*Interactive Google Map showing work zones is available on project website

Project Scope

- Remove existing cables and accessories (currently underway)
- Re-use approximately 60% of existing duct bank.
- Several existing manhole locations will be converted to duct bank, resulting in the retirement of approximately 44 manholes.
- Install new manholes in two locations (Mill St. @ N. Main, N. Main @ Thomas St.)
- Extensive equipment upgrades inside Admiral St. Cable terminal.

Typical Underground Construction



Installation of manholes



Excavate trench



Lay conduit and encase in concrete



Backfill trench and install temporary pavement



Pull and splice cable



Final pavement with new asphalt

Project Schedule

ACTIVITY	ESTIMATED START DATE	ESTIMATED COMPLETION DATE
Planning and Engineering	Complete	
Permitting and Licensing	Complete	
Construction – Phase 1	June 2020	December 2020
Construction – Phase 2	April 2021	December 2021
Facilities In-Service	First Quarter 2022	
Final Restoration	Second Quarter 2022	

Schedule shown here is preliminary and subject to change based on numerous external variables

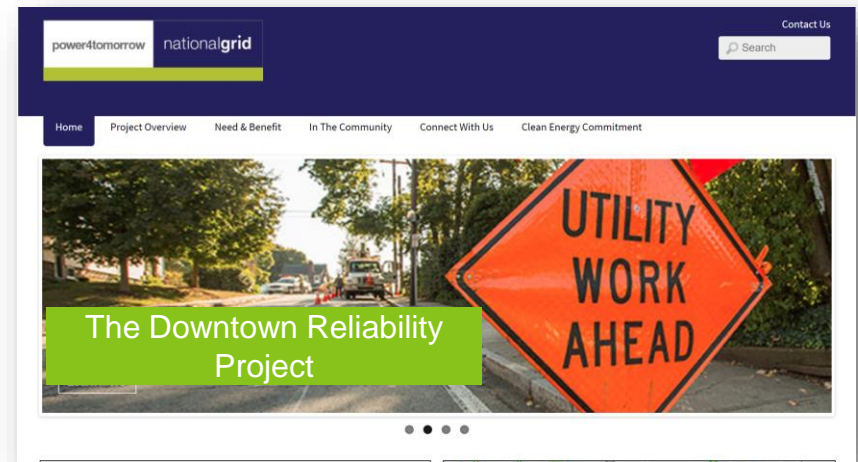
Committed to On-Going Communication

Multiple ways for stakeholders to communicate with the project team

Call our 24-hour hotline
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Questions?

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