



SYSTEM RESILIENCY IMPROVEMENT PROJECTS

# Mission: Service Through Storms



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## Mission: Service Through Storms

**Over the next few years, the Eugene Water & Electric Board will complete a series of improvements to the electric distribution system to reduce the frequency and duration of storm-related outages in areas which have been prone to storm damage. Most of these system improvement and reliability projects will take place in 2019, with a few scheduled for 2020 and 2021. The efforts will significantly reduce the risk of service disruptions for approximately 2,700 customers who have historically experienced wind, ice and snow-related outages.**

Two types of projects will be completed to improve the system resiliency:

- 1) **Improvements to overhead lines:** EWEB will reconfigure and replace older overhead powerlines that require two wires, and replace them with new, higher-capacity cable that requires only one wire. This will also allow for the removal of crossarms, which are susceptible to falling tree limbs and a common culprit in causing outages. Replacement of damaged crossarms is time-consuming and slows power restoration efforts. Some lines may be rerouted.
- 2) **Conversion to underground service:** A few projects will convert overhead lines to underground service.

### What prompted this work?

Following the 2016 ice storm, EWEB applied to Federal Emergency Management Agency for resiliency improvement grant funding to reduce the frequency and duration of future storm-related outages. FEMA has approved grants for 15 of the proposed 16 resiliency projects. Approval of the 16th is anticipated.

### Where are the projects?

The 16 projects represent the most storm-affected areas, and are distributed around the community, including in the Danebo, Dillard, Delta, Hilyard, Blanton, Oakway, River Road, Santa Clara and Coburg/Harlow areas. See the map for specifics.

### What should I do if my home or business is in a project area?

Projects will involve planned service outages and some temporary street closures and the need for access to properties. EWEB will inform you of details of the project and its impacts one to two weeks before the work begins.

### How might my property be impacted if EWEB is converting an overhead line to underground?

Some of the overhead-to-underground conversions will take place in public right-of-ways along streets, while others will be done in easements. EWEB will hold public meetings in 2019 to share plans and solicit feedback from customers who live in these affected areas.

### How did EWEB determine which service areas to address first?

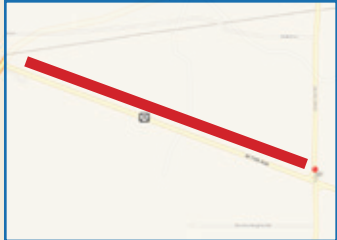
EWEB examined the data from several large, long-duration outages experienced during the 2016 ice storm, and identified 16 improvement projects that will strengthen the system. Many of these areas also suffered prolonged storm-related outages in 2014 and 2012.

### What is the cost of this work?

The investments in resiliency and reliability projects will total more than \$2.7 million. FEMA grant funds will cover 75 percent of the project costs, and EWEB will fund the remaining 25 percent through its electric system capital improvements budget.

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- **Four projects will convert overhead lines to underground service.**  
Refer to last page for details of projects, as numbered.

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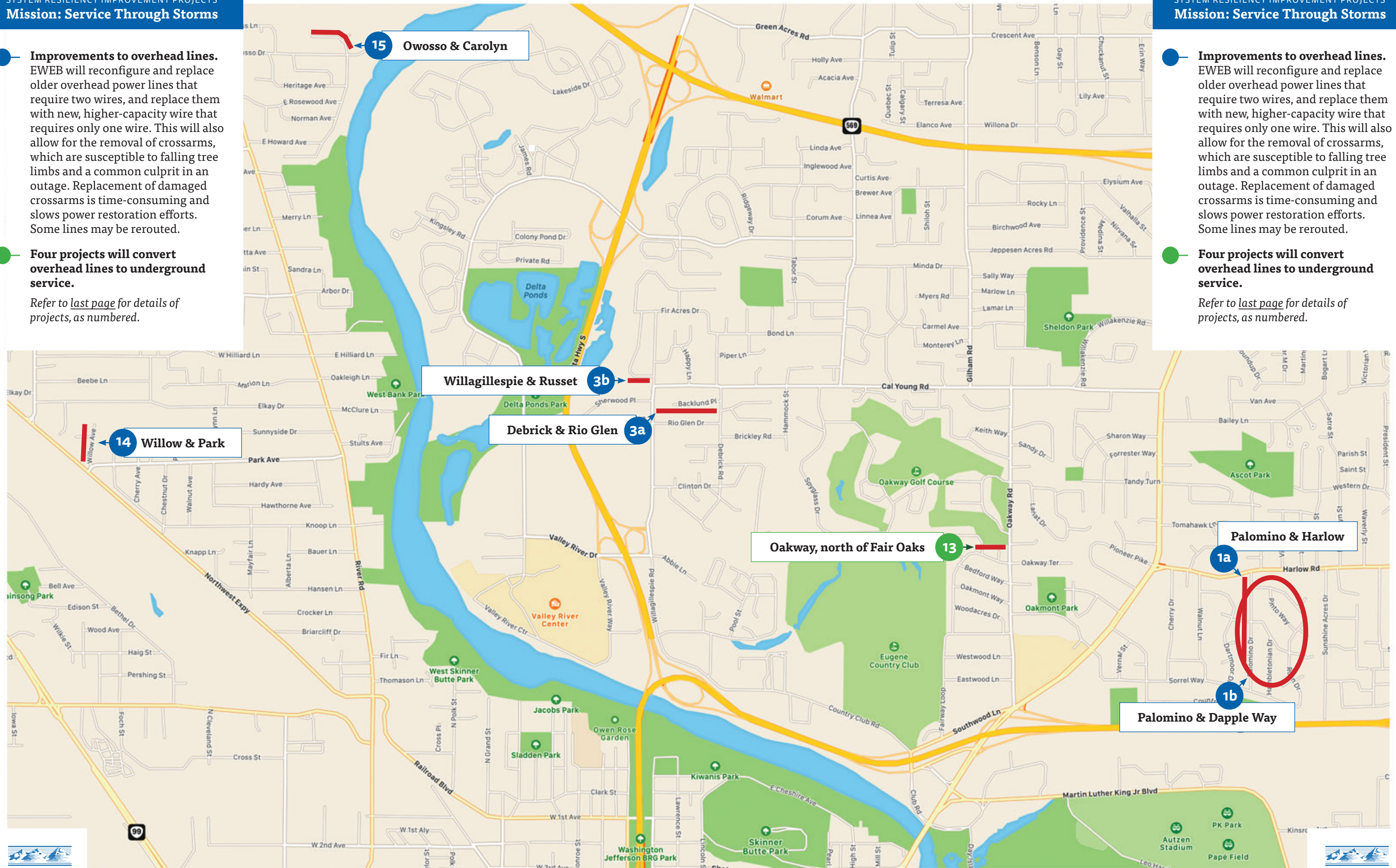
(Not shown on main map)

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## Project details:

### 1a. Palomino & Harlow

- Reconductor 2 phase #6CU backyard tap to 1 phase from pole 25252 to 14802 & 14812 at Palomino & Harlow

### 1b. Palomino & Dapple Way

- Reconductor 2 phase #6CU backyard tap to 1 phase from pole 14774 to 17007 at Palomino & Dapple Way

### 2. Green Hill & W. 11th

- Reconductor 2 phase #6CU street tap to 1 phase from pole 20144 to 20155 at Green Hill & W11th

### 3a. Debrick & Rio Glen

- Reconductor 2 phase #6CU backyard tap to 1 phase from pole 14382 to 14386 at Debrick & Rio Glen

### 3b. Willagillespie & Russet

- Reconductor 2 phase #6CU street tap to 1 phase from pole 14357 to 14359 at Willagillespie & Russet

### 4. Fox Hollow, west of Saratoga to Donald

- Convert 3 phase backyard tap from OH to UG from pole 23554 to 34615 at Fox Hollow, west of Saratoga to Donald

### 5a. E. Amazon & 35th Pl.

- Reconductor 2 phase #6CU backyard tap to 1 phase from pole 11624 to 11648 at E. Amazon & 35th Pl.

### 5b. W. 35th & McMillan

- Reconductor 2 phase #6CU street tap to 1 phase from pole 2419 to 22641 & 18408 at W. 35th & McMillan

### 6. E. 31st & Ferry

- Reconductor 2 phase #6CU & #4CU street tap to 1 phase from pole 7331 to 7334 & 7336 & 9232 at E. 31st & Ferry

### 7a. E. 28th & Central

- Reconductor 2 phase #6CU street tap to 1 phase from pole 5436 to 8302 & 20771 at E. 38th & Central

### 7b. Agate & E. 27th

- Reconductor 2 phase #6CU street tap to 1 phase from pole 5422 to 5425 & 5420 at Agate & E. 27th

### 8a. McLean & Fillmore

- Reconductor 2 phase #4CU street tap to 1 phase from pole 2142 to 12230 at McLean & Fillmore

### 8b. W. 28th & Adams

- Reconductor 2 phase #6CU street tap to 1 phase from pole 11238 to 17022 at W. 28th & Adams

### 9. Jefferson & 22nd

- Reconductor 2 phase #4CU backyard tap to 1 phase from pole 21636 to 5999 at Jefferson & 22nd

### 10a. Willamette & W. 31st

- Reconductor 2 phase #4CU backyard tap to 1 phase from pole 9666 to 9600 & 1555 at Willamette & W. 31st

### 10b. Washington & W. 29th

- Reconductor 2 phase #6CU street tap to 1 phase from pole 2286 to 2282 & 2289 at Washington & W. 29th

### 11. W. 22nd & Olive Alley

- Reconductor 2 phase #6CU street tap to 1 phase from pole 4993 to 4915 at W. 22nd & Olive Alley

### 12. Blanton Rd.

- Convert 3 phase tap from OH to UG feeder from pole 34270 to 10735 on Blanton Rd.

### 13. Oakway, north of Fair Oaks

- Convert 3 phase backyard tap from OH to UG from pole 17923 to 113 off Oakway, north of Fair Oaks

### 14. Willow & Park

- Reconductor 2 phase #6CU street tap to 1 phase from pole 673 to 141 at Willow & Park

### 15. Owosso & Carolyn

- Reconductor 2 phase #6CU street tap to 1 phase from pole 18246 to 18250 at Owosso & Carolyn

### 16. Willamette & Coachman to Kingswood & E. 50th

- Convert 3 phase backyard feeder to 1 phase tap from pole 21167 to 22470 from Willamette & Coachman to Kingswood & E. 50th & convert backyard feeder Dillard 4724 from OH to UG from pole 19423 to 11330 by Kingswood from Brookwood to Donald.

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