E Source Digital Strategy Summit for the Tennessee Valley

Part 2: Website design



Heather Hilgenkamp, PhD Lead Analyst



2:00-2:40 p.m. ET

2:40-2:50 p.m. ET

2:50-3:30 p.m. ET

How to improve your website's self-service features

Break

Why should I care about website accessibility? How to assess and improve your website's accessibility for all customers

How to improve your website's self-service features



Heather Hilgenkamp, PhD Lead Analyst, E Source

Presentation outline

- Why customers go to utility websites
- Findability of website features and how to improve it
- How to improve self-service of Outages or Emergencies and Make a payment features

Why are customers visiting your website?



2019 website benchmark study info

- Conducted biennially since 2002
- Included 109 North American electric and gas utilities
- Covers desktop and mobile experiences
- Evaluated on four usability components:
 - Functionality
 - Content
 - Appearance
 - Findability



Findability methodology

User experience testing

Scored:

- Success rate
- Time to find
- Number of pages

At least 8 residential utility customers per feature for each utility company over 16,000 usability tests

Make it faster and easier to find features on your website

- Reviewers found 89.6% of all tasks that met our criteria
- Reviewers failed to find 7.9% of all tasks
- Reviewers abandoned 2.5% of all tasks
- Across all features, it took an average of seven page views to accomplish the task
- It took reviewers an average of 82 seconds to accomplish their task

Findability: Best versus worst performing





Contact us

Average time: 48 54

Success: 98% 98%

My account

Average time: 72 107

Success: 99% 97%

Outages

Average time: 61 64

Success: 97% 97%



• Average time: 109 107

• Success: 76% 81%

My energy use

Average time: 96 126

• Success: 83% 79%

Make a payment

Average time: 65 85

• Success: 81% 81%

Recommendations to improve findability of key features

Optimize your Google site links

Essential to include in your Google site links:

- Contact us (75% do)
- Outages (45% do)
- My account or sign in (35% do)
- Make a payment (31% do)

Also important to include:

Payment and billing options (57% do) www.cemc.org *

CEMC

Updates for our Members. **CEMC** wants to assure the communities we serve that we are prepared to safely continue our operations throughout the duration of ...

My Account

What are some key features of SmartHub? Pay your bill online ...

Contact Us

A Live Chat service link is available at the bottom right ...

Outage Map

Outage Map. Sign in to Cumberland Electric ...

More results from cemc.org »

Billing & Payment

Billing & Payment. View current rates and find information on ...

New Services

New Service. Welcome to Cumberland Electric ...

Establish Service

New Service. Welcome to Cumberland Electric ...

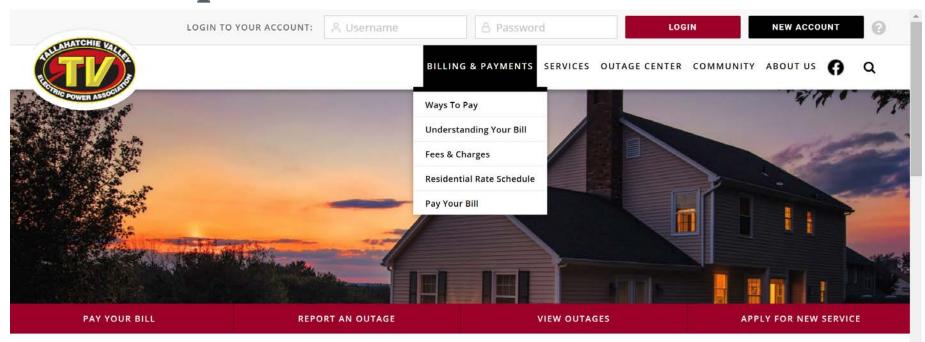
Source: CEMC

Use quick links with icons generously



Source: BGMU

Use simple menus





Free Wifi

TVEPA COVID-



Focus on in-site search engine



HOME)

for your **BUSINESS**

about MTE

Search Results for: rates

Rates

July 2020 Residential Rate – Schedule RS Customer Charge \$14.26 Energy Charge-per kWh per month \$0.07489 Total Monthly Fuel Cost – per kWh per month: \$0.01555 General Power Rate – Schedule GSA GSA-1 (0-50 kW) Customer charge-per delivery point per month \$24.86 Energy Charge-per kWh per month \$0.08781 Total Monthly Fuel Cost – per kWh [...]

Home Energy Tools

Energy Usage Estimator—This calculator will provide you with estimates of energy use costs based on your inputs and will allow you to perform energy saving scenarios to pinpoint your opportunities for savings. Enter your account number or log into your SmartHub account for more precise analysis. Energy Usage Analysis—This program breaks down your [...]

Engineering Rates About MED Employment Open Bids

Outdoor Lighting

Murfreesboro Electric offers the installation of automatic, dusk-to-dawn security lights for residential and commercial/industrial customers. Security light charges are added to your monthly energy charges. The standard monthly lamp charge covers the cost of electricity for the light(s), maintenance, and installation of the light fixture. Customers interested in obtaining a security light should contact the [...]

Quick Links

January February

March

April

May

July

August

September

October

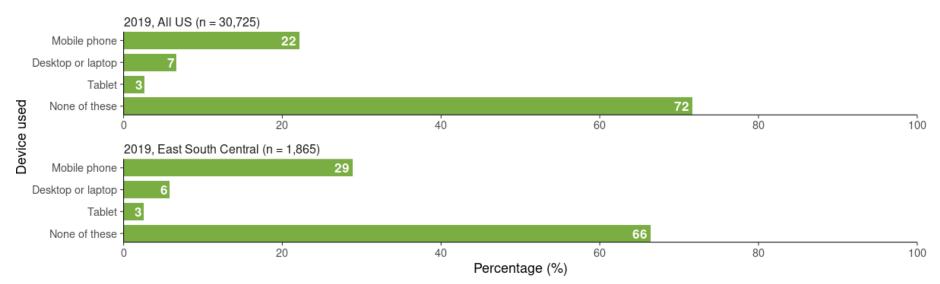
November

December

Source: MED

How to improve selfservice of Outages or Emergencies and Make a payment features

Majority of customers haven't reported a power outage or emergency online

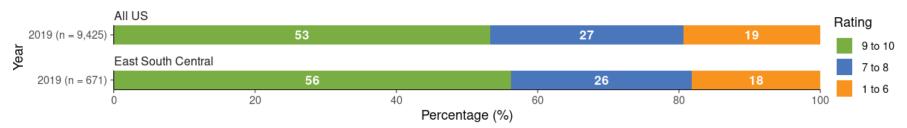


Base: Respondents of electricity or dual-fuel providers.

Question A6_13: In the past 12 months, have you reported a power outage or emergency online with your electricity provider? (Select all that apply) [Filtered]

Note: This question was asked differently in prior years. Respondents were allowed to select more than one answer. Percentages shown in the charts reflect weighted data; sample sizes (n) are based on unweighted data.

Of those who have, more than half say it was easy to do

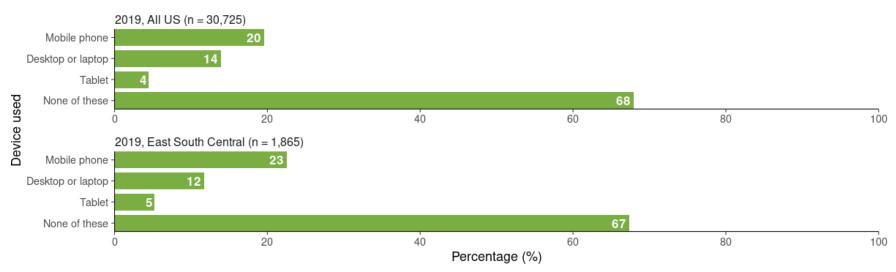


Base: Respondents who are customers of electricity or dual-fuel providers who reported a power outage or emergency online.

Question A6NEW_6: Please rate the ease of reporting a power outage or emergency online with your electricity provider. [Filtered] (Grouped)

Note: This question was first asked in 2018. Respondents used a scale of 1 to 10, where 1 means very difficult and 10 means very easy. Data may not add to 100% due to rounding. Percentages shown in the charts reflect weighted data; sample sizes (n) are based on unweighted data.

Similarly, most haven't viewed an outage map online

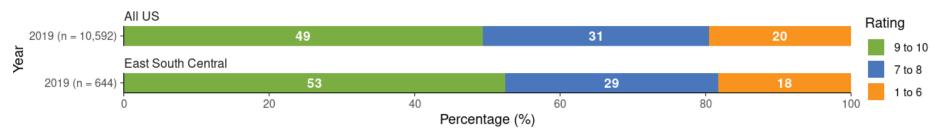


Base: Respondents of electricity or dual-fuel providers.

Question A6_12: In the past 12 months, have you viewed a power outage map online with your electricity provider? (Select all that apply) [Filtered]

Note: This question was asked differently in prior years. Respondents were allowed to select more than one answer. Percentages shown in the charts reflect weighted data; sample sizes (n) are based on unweighted data.

But about half who have said it was easy



Base: Respondents who are customers of electricity or dual-fuel providers who viewed a power outage map online.

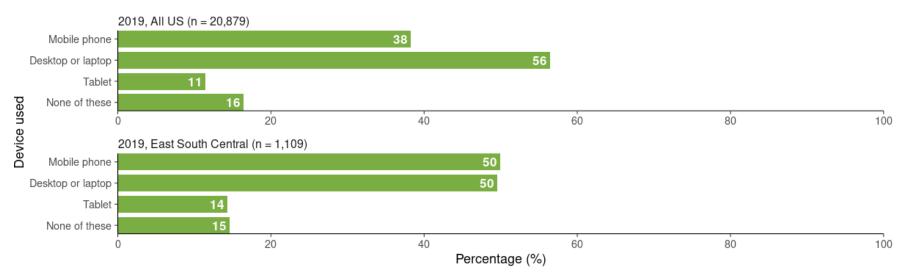
Question A6NEW_5: Please rate the ease of viewing a power outage map online with your electricity provider. [Filtered] (Grouped)

Note: This question was first asked in 2018. Respondents used a scale of 1 to 10, where 1 means very difficult and 10 means very easy. Data may not add to 100% due to rounding. Percentages shown in the charts reflect weighted data; sample sizes (n) are based on unweighted data.

How to improve self-service adoption of the Outage or Emergencies feature

- Improve navigation and limit the number of pages customers have to visit regarding outages or emergencies
- Keep outage and emergency processes as simple as possible
- Provide detailed information via multiple channels

Most customers have viewed their account status or bill online

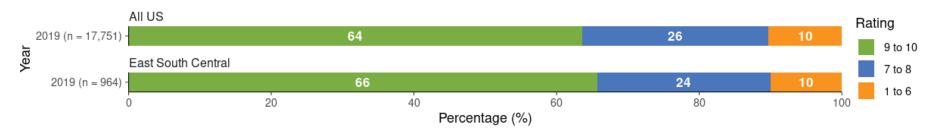


Base: Respondents of electricity or dual-fuel providers with an online account.

Question A6_1: In the past 12 months, have you viewed your account status or bill online with your electricity provider? (Select all that apply) [Filtered]

Note: Respondents were allowed to select more than one answer. Percentages shown in the charts reflect weighted data; sample sizes (n) are based on unweighted data.

And said it was very easy to do so

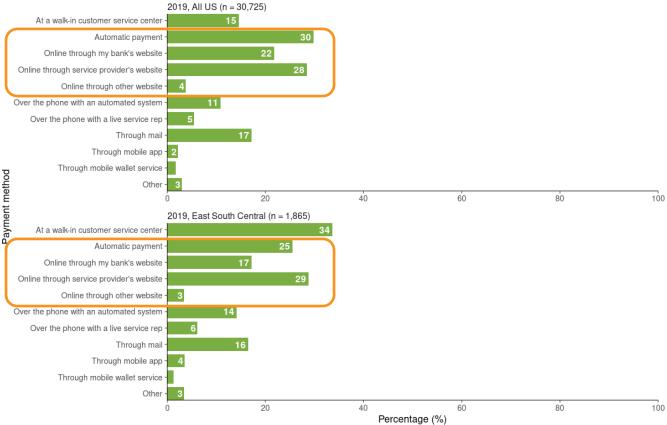


Base: Respondents who are customers of electricity or dual-fuel providers who viewed their account status or bill online.

Question A6NEW 1: Please rate the ease of viewing your account status or bill online with your electricity provider. [Filtered] (Grouped)

Note: This question was first asked in 2018. Respondents used a scale of 1 to 10, where 1 means very difficult and 10 means very easy. Data may not add to 100% due to rounding. Percentages shown in the charts reflect weighted data; sample sizes (n) are based on unweighted data.

Online channels are popular ways to pay





How to improve self-service adoption of the Make a payment feature

- Give customers multiple ways to make a payment, both in navigation and channel
- Keep the process as simple as possible and limit the amount of work customers must do

How to make the online payment experience seamless for all customers

- Repeal credit card payment fees (at least temporarily)
- If you can't remove credit card fees, offer an incentive so customers don't have to pay them
- At the very least, make it clear which online payment options don't incure additional fees

BREAK 10 minutes

Why should I care about website accessibility?

How to assess and improve your website's accessibility for all customers

Heather Hilgenkamp, PhD

Lead Analyst, E Source

Jeffrey Daigle

Director and Senior Consultant, E Source



Presentation outline

- Why should I care about making my website accessible?
- What are the current accessibility standards?
- What should I consider when improving website accessibility?
- Accessibility review
- WAVE tool and how to use it to improve your website's accessibility

Why should I care?





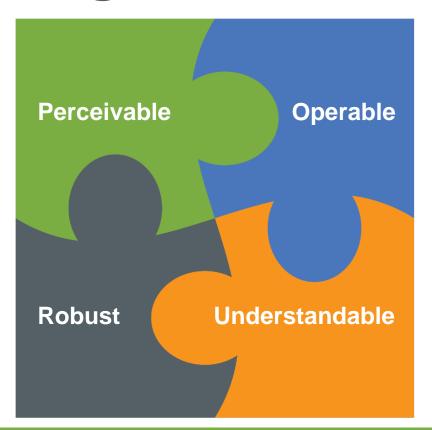


Web Content Accessibility Guidelines (WCAG)

- Created by the World Wide Web Consortium (W3C) in 1999
- Developed protocols so all individuals can understand online content
- WCAG 2.1 released June 2018



WCAG 2.1 at a glance



Source: WCAG 2.1 at a

Glance, W3C

Content editor responsibilities

- Do all images have alternative text (alt text)?
- Do all heading levels (H1, H2, etc.) follow a proper outline hierarchy?
- Do all data tables have correct header designations?
- Is all link text appropriately descriptive?
- Do all videos have closed captioning?

Source: Is your website accessible? Here's a handy checklist to find out., Juicebox Interactive

Developer responsibilities

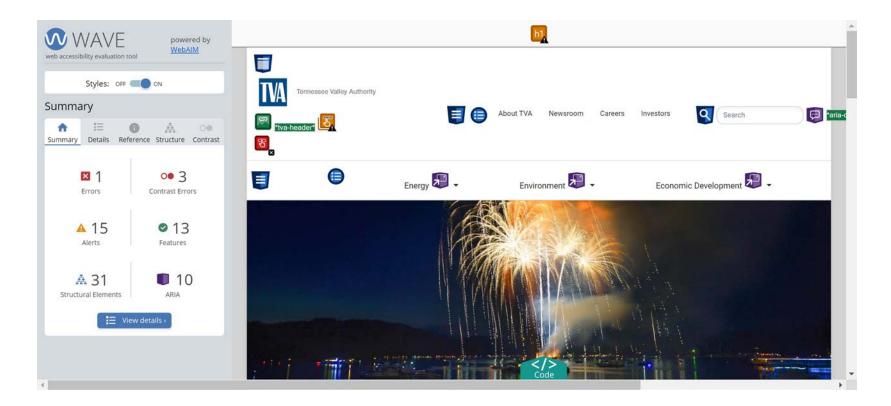
- Do your pages have a straightforward document structure that's readable without a CSS file?
- Can all links and navigation drop-down functionality be used without a mouse?
- Is a "Skip to main content" link present before the navigation when tabbing?
- Does the site use ARIA landmarks and other assistive technology indicators where appropriate?
- Does small text (18 px or smaller) have a contrast ratio of at least 4.5:1 against the background?
- Does large text (bold > 18 px, normal weight > 23 px) have a contrast ratio of at least 3:1 against the background?

Source: Is your website accessible? Here's a handy checklist to find out., Juicebox Interactive

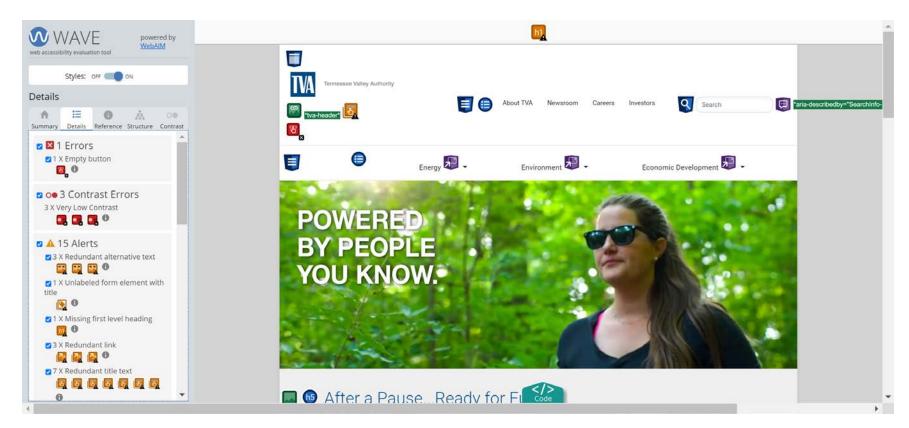
Accessibility review

Utility home page metric	Errors	Contrast errors	Alerts
Average	15	14	24
Minimum	0	0	3
Median	12	10	16
Maximum	72	64	112

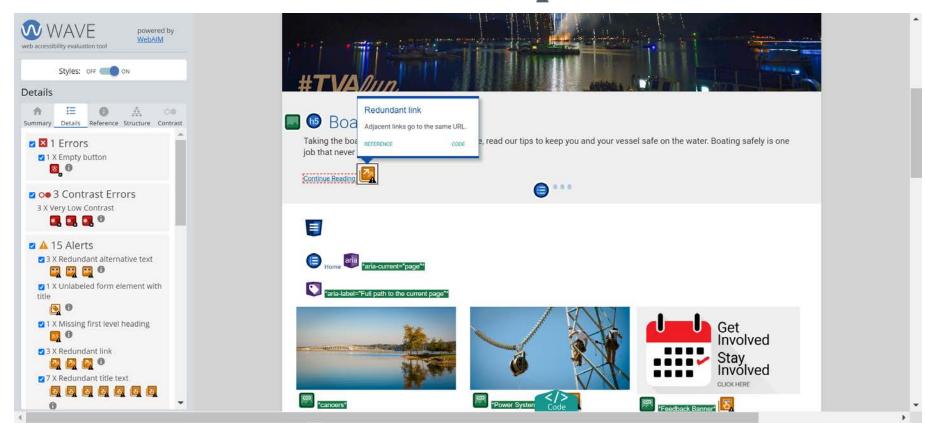
WAVE tool: Details section



WAVE tool: Details section



WAVE tool: How to interpret details

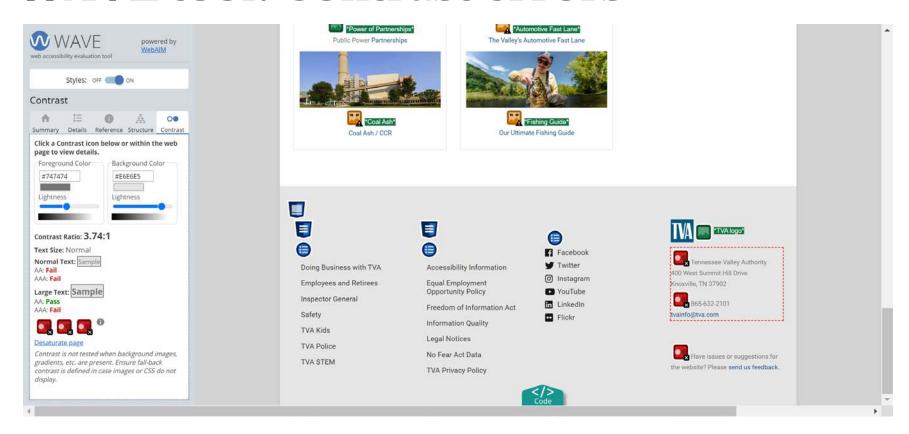




WAVE tool: Reference and structure



WAVE tool: Contrast errors



Thank you! Questions?



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Have a question? Ask E Source!
Submit an inquiry:
www.esource.com/question



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