

FLORIDA ENERGY SYSTEMS

CONSORTIUM REDESIGN

Objective

To redesign 3 pages of Florida's Energy Systems Consortium Website focusing on:

1. Accessibility
2. Mobile Friendliness
3. Performance
4. Functionality
5. Ease of Use

Following, this document will include a section on necessary device support as well a section on recommendations for improvement.

Website Evaluation

Accessibility Audit

For this audit I'll be focusing on 3 pages of the website:

- Homepage:
- About Us
- Contact Us
-

To conduct this audit I'll be using a free web tool called [WAVE: Web Accessibility Evaluation Tool](#). Upon entering the URL you'd like to run the tool on, WAVE will produce a summary report giving you information about different accessibility concerns that certain URL page has. The summary is broken down into 6 different categories:

- | | |
|-------------|------------------------|
| 1. Errors | 4. Structural Elements |
| 2. Alerts | 5. HTML5 & ARIA |
| 3. Features | 6. Contrast Errors |

Summary Report

(Detailed reports will be linked to each page heading below)

| | Home Page | About Us | Contact |
|---------------------|---------------------------|--------------------------|-------------------------|
| Errors | 10 | 4 | 7 |
| Alerts | 7 | 5 | 6 |
| Features | 17 | 13 | 16 |
| Structural Features | 8 | 10 | 49 |
| HTML5 & ARIA | 1 | 1 | 2 |
| Contrast Errors | 11 | 12 | 16 |

Mobile Responsiveness

To test mobile responsiveness, I used [Google's Mobile Friendly Test](#) tool on the same 3 pages yielding and overall result of not being mobile responsive.

Summary Report

(Detailed reports will be linked to each page heading below)

| | Home Page | About Us | Contact |
|--------------------|---------------------------|--------------------------|-------------------------|
| Mobile Responsive? | No | No | No |
| Errors | 4 | 4 | 4 |

Performance

To test performance, I used an online web tool called [PingDom](#). This web tool gives insight on how well a site loads and provides information difference aspects about your website. Upon running the tool on the FESU website, the website got an overall performance grade of 70/100 when tested from New York City, New York.

While the website still runs faster than 74% of other websites and has a load load time of 1.80 seconds, performance insights from this particular test showed that PingDom gave a "F" grade to FECU's CSS and Javascript which is what this proposal aims to fix.

Detailed report can be found [here](#).

Functionality

Functionality was tested manually on the Home, About Us, and Contact page, spending about 5 minutes on each page looking for things that don't work and would obstruct the users interactivity. Following are noted problems I encountered on each page:

| Home Page | About Us | Contact |
|---|--|---|
| <ul style="list-style-type: none">- Search Bar is above header- Outdated content (Florida Energy Summit Banner)- Download brochure link is broken- LinkedIn links to an icon and not a page- Email icon links to email icon- E-mail input doesn't have a submit option | <ul style="list-style-type: none">- Search Bar is above header | <ul style="list-style-type: none">- Newsletter input field links to a different website |

Ease of Use

Ease of use was tested manually on the Home, About Us, and Contact page, spending about 5 minutes on each page looking for different aspects of the website's design that might give the user a difficult time trying to navigate or find information.

- There are multiple navigation bars on each page, some links even link to the same page.
- Users will find navigation tricky, while the main horizontal bar stays the same, the side navigation bar changes depending on what page you're on.
- Huge dumps of information on each page, pages seem cluttered

Device Support Necessary

As of 2018, half of internet traffic has moved from desktop to mobile, giving a priority to making websites mobile accessible and responsive. Different operating systems on devices and browsers are also something to take into consideration as well.

Recommendations for Improvement

From an aesthetic perspective, the colors scheme could be improved as well as the layout of the website overall. A cleaner and simpler layout could help clean up the clutter and maintain a consistent visiting experience between desktop and mobile. I'd also suggest moving the search bar past the header, possibly including it to the end of the nav bar while fixing all the dead links

on the page and remodeling the footer. A focus on accessibility and responsiveness will be implemented as well.