

Performance Report for: <http://www.ecusltd.co.uk/>

Report generated: Thu, Mar 14, 2024 3:47 AM -0700
 Test Server Location: London, UK
 Using: Chrome 117.0.0.0, Lighthouse 11.0.0

B	Performance	Structure	L. Contentful Paint	T. Blocking Time	C. Layout Shift
	94%	77%	773ms	45ms	0

Top Issues

High	Avoid enormous network payloads <small>LCP</small>	Total size was 5.35MB
Med	Use explicit width and height on image elements <small>CLS</small>	12 images found
Med	Serve static assets with an efficient cache policy	Potential savings of 2.88MB
Med-Low	Use a Content Delivery Network (CDN)	32 resources found
Med-Low	Avoid CSS @import <small>FCP LCP</small>	2 resources found

Page Details



Total Page Size - 6.36MB



Total Page Requests - 56



Legend: HTML JS CSS IMG Video Font Other

How does this affect me?

Today's web user expects a fast and seamless website experience. Delivering that fast experience can result in increased visits, conversions and overall happiness.

As if you didn't need more incentive, **Google has announced that they are using page speed in their ranking algorithm.**

About GTmetrix

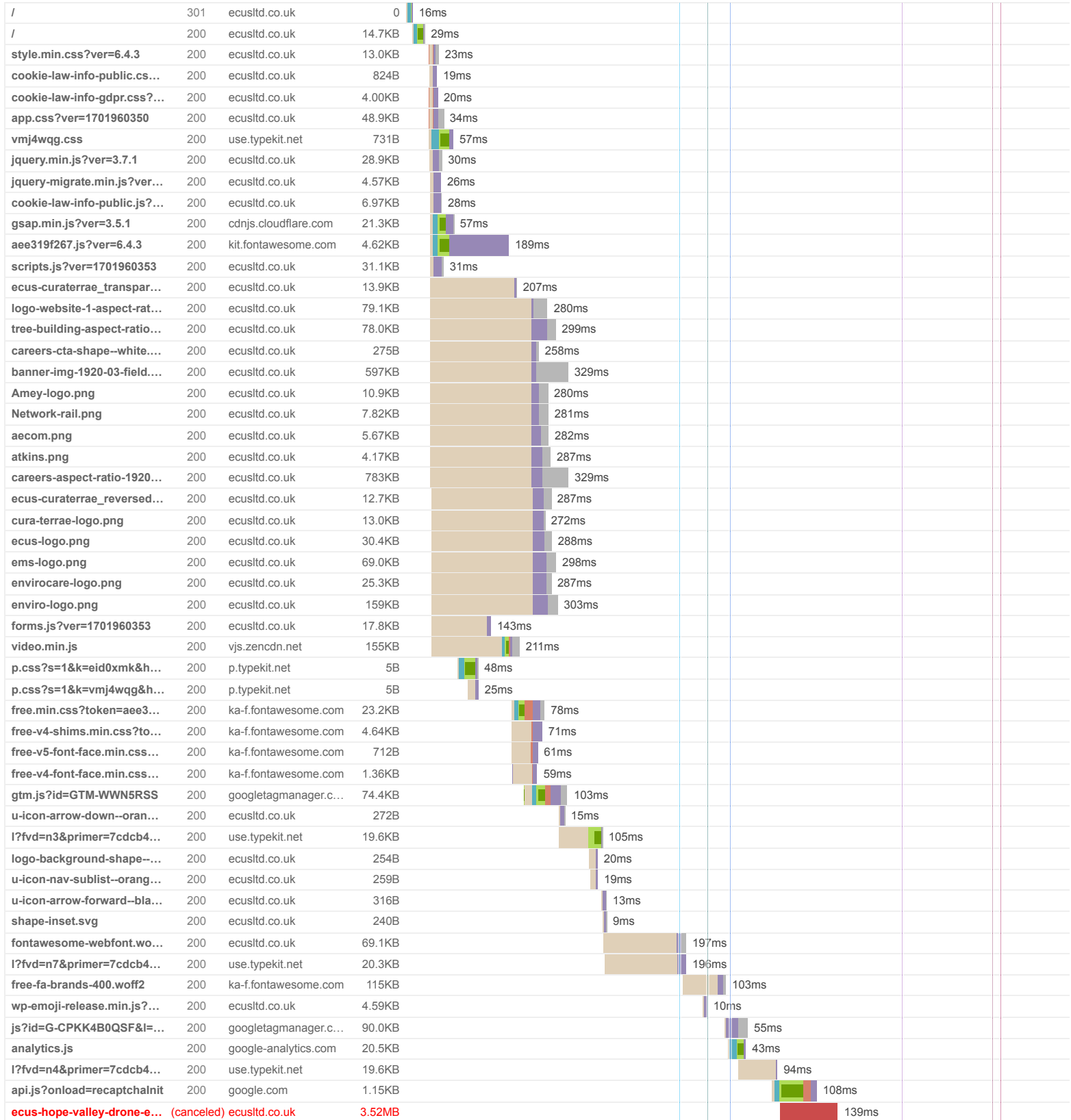


GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 28 years experience in web technology.

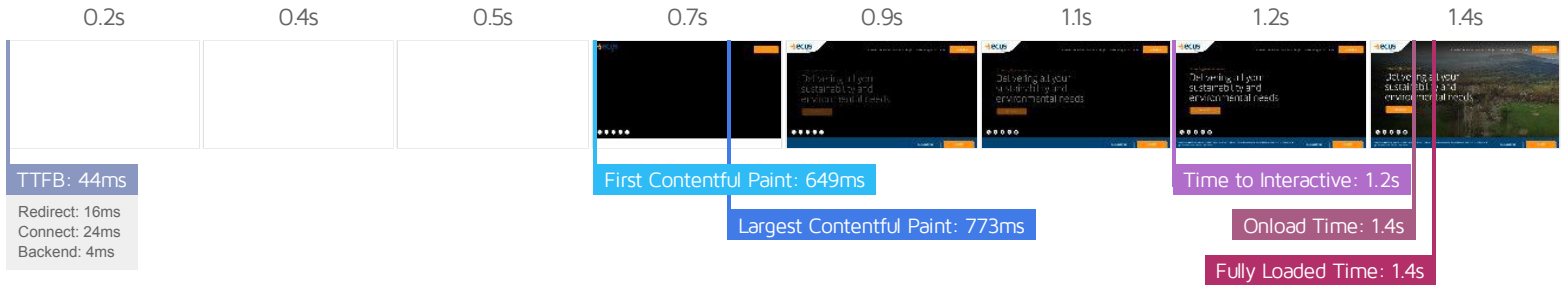
<https://carbon60.com/>

The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

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ecus-hope-valley-drone-e...	206	ecusltd.co.uk	0						166ms
recaptcha_en.js	200	gstatic.com	199KB						89ms
favicon.ico	200	ecusltd.co.uk	3.89KB						7ms
56 Requests	6.36MB	(11.8MB Uncompressed)	Fully Loaded 1.4s	(Onload 1.4s)					



Performance Metrics

<p>First Contentful Paint</p> <p>How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less.</p>	<p>Good - Nothing to do here</p> <p>648ms</p>	<p>Time to Interactive</p> <p>How long it takes for your page to become fully interactive. A good user experience is 2.5s or less.</p>	<p>Good - Nothing to do here</p> <p>1.2s</p>
<p>Speed Index</p> <p>How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.</p>	<p>Much longer than recommended</p> <p>2.3s</p>	<p>Total Blocking Time</p> <p>How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.</p>	<p>Good - Nothing to do here</p> <p>45ms</p>
<p>Largest Contentful Paint</p> <p>How long it takes for the largest element of content (e.g. a hero image) to be painted on your page. A good user experience is 1.2s or less.</p>	<p>Good - Nothing to do here</p> <p>773ms</p>	<p>Cumulative Layout Shift</p> <p>How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less.</p>	<p>Good - Nothing to do here</p> <p>0</p>

Browser Timings

Redirect	16ms	Connect	24ms	Backend	4ms
TTFB	44ms	First Paint	649ms	DOM Int.	710ms
DOM Loaded	717ms	Onload	1.4s	Fully Loaded	1.4s

IMPACT AUDIT

Med-Low

Eliminate render-blocking resources FCP LCP

Potential savings of 183ms

Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles.

Resources that **may** be contributing to render-blocking include:

URL	TRANSFER SIZE	DOWNLOAD TIME
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/styles/app.css?ver=1701960350	49.1KB	900ms
https://use.typekit.net/vmj4wgg.css	954B	762ms
https://www.ecusltd.co.uk/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	29.0KB	600ms
https://www.ecusltd.co.uk/wp-includes/js/jquery/jquery-migrate.min.js?ver=3.4.1	4.68KB	150ms
https://cdnjs.cloudflare.com/ajax/libs/gsap/3.5.1/gsap.min.js?ver=3.5.1	22.0KB	1.2s
https://kit.fontawesome.com/aee319f267.js?ver=6.4.3	4.62KB	899ms
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/scripts/scripts.js?ver=1701960353	31.2KB	300ms

Low

Allow back/forward cache restoration

1 failure reason

Many navigations are performed by going back to a previous page, or forwards again. The back/forward cache (bfcache) can speed up these return navigations.

FAILURE REASON

FAILURE TYPE

Pages whose main resource has cache-control:no-store cannot enter back/forward cache.

Circumstantial

<https://www.ecusltd.co.uk/>

Low

Avoid an excessive DOM size TBT

734 elements

A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows.

STATISTIC	ELEMENT	VALUE
Total DOM Elements		734
Maximum DOM Depth	Opaque <option id="captions-foreground-opacity-sp-banner-loop-02_component_477-Opaque" value="1" aria-labelledby="captions-text-legend-sp-banner-loop-02_component_477 captions-foreground-o...">	14
Maximum Child Elements	PauseUnmuteCurrent Time 0:08/Duration 0:17Loaded: 100.00%0:08Stream Type LIVESe... <div class="vjs-control-bar" dir="ltr">	17

Low

Reduce JavaScript execution time TBT

554ms spent executing JavaScript

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this.

URL	TOTAL CPU TIME	SCRIPT EVALUATION	SCRIPT PARSE
• https://www.ecusltd.co.uk/	362ms	21ms	2ms
• Unattributable	323ms	19ms	0ms
• https://vjs.zencdn.net/7.15.4/video.min.js	298ms	186ms	12ms
• https://cdnjs.cloudflare.com/ajax/libs/gsap/3.5.1/gsap.min.js?ver=3.5.1	225ms	14ms	0ms
• https://www.ecusltd.co.uk/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	137ms	121ms	1ms
• https://www.googletagmanager.com/gtag/js?id=G-CPKK4B0QSF&l=dataLayer&cx=c	73ms	42ms	23ms
• https://www.googletagmanager.com/gtm.js?id=GTM-WWN5RSS	57ms	50ms	3ms
• https://kit.fontawesome.com/aee319f267.js?ver=6.4.3	55ms	53ms	0ms

Low **Properly size images** Potential savings of 720KB

Serve images that are appropriately-sized to save cellular data and improve load time.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://www.ecusltd.co.uk/wp-content/uploads/2021/03/banner-img-1920-03-field.jpg	597KB	364KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/enviro-logo.png	159KB	159KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/ems-logo.png	69.0KB	68.9KB
https://www.ecusltd.co.uk/wp-content/uploads/2022/03/logo-website-1-aspect-ratio-800-557.png	79.0KB	35.4KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/ecus-logo.png	30.3KB	30.3KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/envirocare-logo.png	25.2KB	25.2KB
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/images/uploads/ecus-curaterrae_transparent_small.png	13.9KB	13.2KB
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/images/uploads/cura-terrae-logo.png	13.0KB	12.5KB
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/images/uploads/ecus-curaterrae_reversed_small.png	12.7KB	12.2KB

Low **Avoid multiple page redirects** FCP LCP Potential savings of 15ms

Redirects introduce additional delays before the page can be loaded.

URL	TIME SPENT
• http://www.ecusltd.co.uk/	15ms
• https://www.ecusltd.co.uk/	0ms

Low **Ensure text remains visible during webfont load** FCP LCP 4 fonts found

Leverage the `font-display` CSS feature to ensure text is user-visible while webfonts are loading.

URL	POTENTIAL SAVINGS
• https://use.typekit.net/af/88e7d9/00000000000000000003b9b03f6/27/?fvd=n3&primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&v=3	35ms
• https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/fonts/fontawesome-webfont.woff2?v=4.6.1	23ms
• https://use.typekit.net/af/ffd4d6/0000000000000000000003b9b03fb/27/?fvd=n7&primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&v=3	22ms
• https://use.typekit.net/af/cefcf4/00000000000000000003b9b03f8/27/?fvd=n4&primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&v=3	4ms

Low **Avoid long main-thread tasks** TBT 4 long tasks found

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay.

URL	START TIME	DURATION
https://cdnjs.cloudflare.com/ajax/libs/gsap/3.5.1/gsap.min.js?ver=3.5.1	437ms	133ms
https://cdnjs.cloudflare.com/ajax/libs/gsap/3.5.1/gsap.min.js?ver=3.5.1	895ms	72ms
https://www.googletagmanager.com/gtag/js?id=G-CPKK4B0QSF&l=dataLayer&cx=c	1.1s	71ms
https://www.ecusltd.co.uk/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	822ms	51ms

Low

Reduce unused CSS FCP LCP

Potential savings of 75.7KB

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/styles/app.css?ver=1701960350	49.1KB	42.4KB
! * Font Awesome Free 6.5.1 by @fontawesome - https://fontawesome.com * License - https://fonta...	20.3KB	20.2KB
https://www.ecusltd.co.uk/wp-includes/css/dist/block-library/style.min.css?ver=6.4.3	13.1KB	13.1KB

Low

Serve images in next-gen formats

Potential savings of 1.13MB

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://www.ecusltd.co.uk/wp-content/uploads/2021/11/careers-aspect-ratio-1920-729.png	783KB	726KB
https://www.ecusltd.co.uk/wp-content/uploads/2021/03/banner-img-1920-03-field.jpg	597KB	220KB
https://www.ecusltd.co.uk/wp-content/uploads/2022/03/logo-website-1-aspect-ratio-800-557.png	79.0KB	67.8KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/enviro-logo.png	159KB	67.1KB
https://www.ecusltd.co.uk/wp-content/uploads/2024/01/tree-building-aspect-ratio-1920-729.jpg	77.9KB	30.8KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/ems-logo.png	69.0KB	24.4KB
https://www.ecusltd.co.uk/wp-content/uploads/2021/01/Amey-logo.png	10.8KB	8.40KB
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/images/uploads/cura-terrae-logo.png	13.0KB	8.27KB

Low

Defer offscreen images

Potential savings of 1.09MB

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive.

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://www.ecusltd.co.uk/wp-content/uploads/2021/11/careers-aspect-ratio-1920-729.png	783KB	783KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/enviro-logo.png	159KB	159KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/ems-logo.png	69.0KB	69.0KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/ecus-logo.png	30.3KB	30.3KB
https://www.ecusltd.co.uk/wp-content/uploads/2023/04/envirocare-logo.png	25.2KB	25.2KB
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/images/uploads/cura-terrae-logo.png	13.0KB	13.0KB
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/images/uploads/ecus-curaterrae_reversed_small.png	12.7KB	12.7KB
https://www.ecusltd.co.uk/wp-content/uploads/2021/01/Amey-lqgo.png	10.8KB	10.8KB
https://www.ecusltd.co.uk/wp-content/uploads/2021/01/Network-rail.png	7.75KB	7.75KB
https://www.ecusltd.co.uk/wp-content/uploads/2021/01/aecom.png	5.62KB	5.62KB
https://www.ecusltd.co.uk/wp-content/uploads/2021/01/atkins.png	4.12KB	4.12KB

Low

Avoid non-composited animations CLS

1 animated element found

Animations which are not composited can be janky and increase CLS.

ELEMENT

NAME

Protecting the environment Delivering all your sustainability and environmental...

```
<div class="c-banner u-align-content-left js-display-on-scroll fadeInUp u-half-left">
```

Unsupported CSS Property: top

d

Low

Avoid chaining critical requests FCP LCP

18 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load.

Maximum critical path latency: **886ms**

INITIAL NAVIGATION



Low

Reduce unused JavaScript LCP

Potential savings of 343KB

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity.

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://www.gstatic.com/recaptcha/releases/07g0mpPGukTo20VgKa8GbTSw/recaptcha_en.js	199KB	154KB
https://vjs.zencdn.net/7.15.4/video.min.js	155KB	114KB
https://www.googletagmanager.com/gtag/js?id=G-CPKK4B0QSF&l=dataLayer&cx=c	90.1KB	41.2KB
https://www.googletagmanager.com/gtm.js?id=GTM-WWN5RSS	74.8KB	34.1KB

N/A **Largest Contentful Paint element** LCP

770 ms

This is the largest contentful element painted within the viewport.

ELEMENT

Delivering all your sustainability and environmental needs

<h2>

PHASE	% OF LCP	TIMING
TTFB	6%	45ms
Load Delay	0%	0ms
Load Time	0%	0ms
Render Delay	94%	727ms

N/A **Reduce initial server response time** FCP LCP

Root document took 3ms

Keep the server response time for the main document short because all other requests depend on it.

URL	TIME SPENT
<ul style="list-style-type: none"> https://www.ecusltd.co.uk/ 	3ms

N/A **Avoid serving legacy JavaScript to modern browsers** TBT

Potential savings of 22.9KB

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers.

URL	POTENTIAL SAVINGS
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/scripts/forms.js?ver=1701960353	12.5KB
Line:0 Column:4865	Array.prototype.find
Line:0 Column:12032	Array.prototype.forEach
Line:0 Column:15659	@babel/plugin-transform-classes
Line:0 Column:20354	Object.keys
Line:0 Column:46449	Object.getPrototypeOf
Line:0 Column:46791	Reflect.construct
https://www.ecusltd.co.uk/wp-content/themes/ecus/assets/scripts/scripts.js?ver=1701960353	10.4KB
Line:1 Column:4865	Array.prototype.find
Line:1 Column:15299	Array.prototype.forEach
Line:1 Column:20918	@babel/plugin-transform-classes
Line:1 Column:33885	Object.keys
Line:1 Column:49827	Array.prototype.filter
Line:1 Column:53091	Array.prototype.findIndex
Line:1 Column:94930	Array.prototype.map

N/A **Avoid large layout shifts** CLS 3 elements found

These DOM elements contribute most to the CLS of the page.

ELEMENT	CLS CONTRIBUTION
About Us Sectors Services Projects News & Insights Careers Contact us <div class="desktop__menu">	0.00
Protecting the environment Delivering all your sustainability and environmental... <div class="c-banner u-align-content-left js-display-on-scroll fadeInUp u-half-left">	0.00
Delivering all your sustainability and environmental needs <h2>	0.00

N/A **Minimize main-thread work** TBT Main-thread busy for 1.7s

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this.

CATEGORY	TIME SPENT
Script Evaluation	618ms
Other	604ms
Style & Layout	293ms
Script Parsing & Compilation	63ms
Parse HTML & CSS	61ms

CATEGORY

TIME SPENT

Rendering

43ms

Garbage Collection

6ms

N/A

Reduce the impact of third-party code TBT

Total size was 774KB

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading.

THIRD-PARTY	TRANSFER SIZE	MAIN-THREAD BLOCKING TIME
GOOGLE CDN	199KB	0ms
• https://www.gstatic.com/recaptcha/releases/07g0mpPGukTo20VgKa8GbTSw/recaptcha_en.js	199KB	0ms
GOOGLE TAG MANAGER	165KB	0ms
• https://www.googletagmanager.com/gtag/js?id=G-CPKK4B0QSF&l=dataLayer&cx=c	90.1KB	0ms
• https://www.googletagmanager.com/gtm.js?id=GTM-WWN5RSS	74.8KB	0ms
BRIGHTCOVE	155KB	0ms
• https://vjs.zencdn.net/7.15.4/video.min.js	155KB	0ms
FONTAWESOME CDN	150KB	0ms
• https://ka-f.fontawesome.com/releases/v6.5.1/webfonts/free-fa-brands-400.woff2	115KB	0ms
• https://ka-f.fontawesome.com/releases/v6.5.1/css/free.min.css?token=aee319f267	23.2KB	0ms
• Other resources	11.3KB	0ms
ADOBE TYPEKIT	61.4KB	0ms
• https://use.typekit.net/af/ffd4d6/0000000000000000003b9b03fb/27/?fvd=n7&primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&v=3	20.5KB	0ms
• https://use.typekit.net/af/cefcf4/0000000000000000003b9b03f8/27/?fvd=n4&primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&v=3	19.8KB	0ms
• https://use.typekit.net/af/88e7d9/0000000000000000003b9b03f6/27/?fvd=n3&primer=7cdcb44be4a7db8877ffa5c0007b8dd865b3bbc383831fe2ea177f62257a9191&v=3	19.8KB	0ms
CLOUDFLARE CDN	22.0KB	0ms
• https://cdnjs.cloudflare.com/ajax/libs/gsap/3.5.1/gsap.min.js?ver=3.5.1	22.0KB	0ms
GOOGLE ANALYTICS	20.8KB	0ms
• https://www.google-analytics.com/analytics.js	20.8KB	0ms
OTHER GOOGLE APIS/SDKS	1.15KB	0ms

N/A

User Timing marks and measures

No user timings and/or marks found.