



Performance Report for: <http://www.cityscience.com/>

Report generated: Thu, Mar 14, 2024 3:18 AM -0700
 Test Server Location: London, UK
 Using: Chrome 117.0.0.0, Lighthouse 11.0.0

A	Performance	Structure	L. Contentful Paint	T. Blocking Time	C. Layout Shift
	100%	93%	492ms	55ms	0

Top Issues

Med	Use explicit width and height on image elements <small>CLS</small>	16 images found
Med-Low	Use a Content Delivery Network (CDN)	14 resources found
Low	Avoid an excessive DOM size <small>TBT</small>	893 elements
Low	Use passive listeners to improve scrolling performance	1 event listener not passive
Low	Serve static assets with an efficient cache policy	Potential savings of 44.7KB

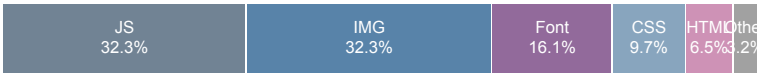
Page Details



Total Page Size - 799KB



Total Page Requests - 31



■ 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.



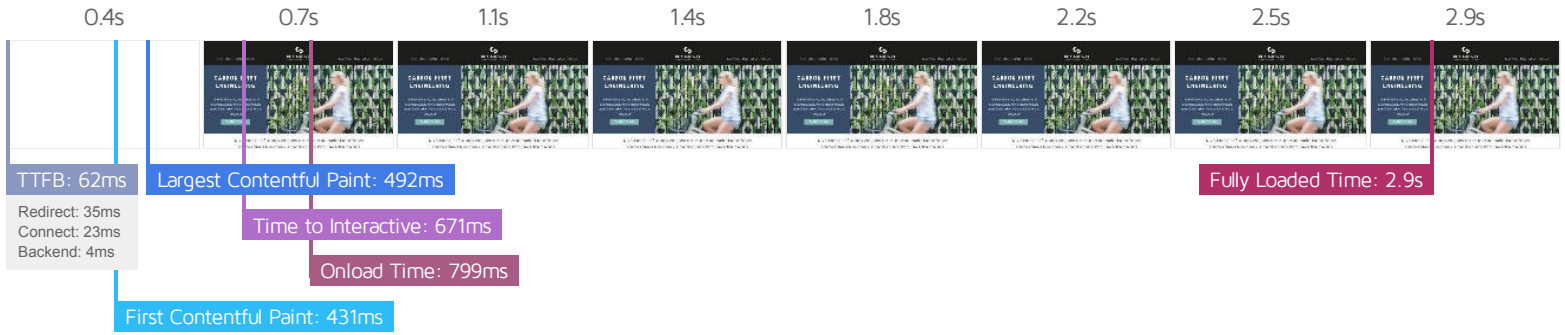
<https://carbon60.com/>

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.

City Science – Delivering decarbonisation

Request	Size	Source	Load Time
/	301	cityscience.com	162B
/	200	cityscience.com	34.9KB
EJRSQgYoZZY2vCFuvAn...	200	cityscience.com	28.9KB
KFOmCnqEu92Fr1Mu4mx...	200	cityscience.com	15.4KB
ieVI2ZhZl2eCN5jzbjEETS...	200	cityscience.com	50.2KB
_static??-eJyNkttuwyAM...	200	cityscience.com	85.9KB
jquery.min.js?ver=3.7.1	200	cityscience.com	31.0KB
jquery-migrate.min.js?m=...	200	cityscience.com	5.21KB
?custom-css=67fb08fc4f	200	cityscience.com	1.26KB
cropped-CS-logotype2-W...	200	i0.wp.com	2.69KB
bilmur.min.js?m=202411	200	s0.wp.com	2.63KB
magamenu-frontend.min....	200	cityscience.com	0
_static??-eJytk9FWwjAM...	200	cityscience.com	121KB
e-202411.js	200	stats.wp.com	2.89KB
index.min.js?m=17067425...	200	cityscience.com	1.83KB
index.min.js?ver=5baa98...	200	cityscience.com	3.94KB
view.js?minify=false&ver...	200	cityscience.com	1.51KB
accessible-form.js?minify...	200	cityscience.com	3.31KB
homepage.ca9bbf1.jpg	200	cityscience.com	129KB
city.jpg	200	cityscience.com	124KB
hills.jpg	200	cityscience.com	50.2KB
EJRVQgYoZZY2vCFuvAF...	200	cityscience.com	32.6KB
fontello-1.woff2	200	cityscience.com	15.4KB
BASEE-e1705683515648-...	200	i0.wp.com	11.3KB
RTPI-e1705683495650-30...	200	i0.wp.com	22.2KB
Regional-Decarbonisatio...	200	i0.wp.com	5.22KB
net-zero-thumbnail-turbin...	200	i0.wp.com	9.8KB
g.gif?v=ext&blog=220233...	200	pixel.wp.com	50B
wp-emoji-release.min.js?...	200	cityscience.com	5.11KB
cs-icon.png?fit=32%2C32...	200	i0.wp.com	905B
boom.gif?bilmur=1&cum...	204	pixel.wp.com	105B

31 Requests 799KB (2.14MB Uncompressed) Fully Loaded 2.9s (Onload 799ms)



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>430ms</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>671ms</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>Good - Nothing to do here</p> <p>442ms</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>55ms</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>492ms</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	35ms	Connect	23ms	Backend	4ms
TTFB	62ms	First Paint	431ms	DOM Int.	602ms
DOM Loaded	611ms	Onload	799ms	Fully Loaded	2.9s

IMPACT AUDIT

Low

Avoid enormous network payloads LCP

Total size was 803KB

Large network payloads cost users real money and are highly correlated with long load times.

URL	TRANSFER SIZE
https://cityscience.com/wp-content/uploads/2023/08/homepage.ca9bbf1.jpg	129KB
https://cityscience.com/wp-content/uploads/2023/08/city.jpg	124KB
<a "="" href="https://cityscience.com/_static/??-eJytk9FWwjAMhI/WHgy5cljo3iyNcxg2/S0GcjbG6oTlMSHC262tc3/JfmbHZLpOQpGsfKBAYuFlnh0WVCK3RUBKNKW0NltroHuUXced+XhcJYmPw4UNRwIQf85vd/3Gs7ZwigcQIT66cRQgAFN76J1VMT+LX/BFHs/Oqwf1IBfkh4l9sctea8xmOWimGuajANqKAhnk8coFPAG1UWmmYaHUZcd5sF2l3lnHQeTEdzRUnt4NaOsNptCogm1Buupsxw7huwoDpP/tSLBkDwImpRxT3iwAa5iS8L+BE6ZL+7QMydTK8R8RTh6NeaUBJzjWMxW3Tp3d0ZNCrPeo2JtQPIgCXP9HorW73QQKXBnOe30upMFC/gcG5m/3eseOo/71WEgcB7zMD78AoLJ7wDqRwoYdapiM7fg6ejlP9gxnS6AcXAYH6Qk2ZR93bFNfckP79ITXv5bdp112zarnnZtNCszfJp3aw27Uopb+F1+bxPC02q3b9DYeg1fo=">https://cityscience.com/_static/??-eJytk9FWwjAMhI/WHgy5cljo3iyNcxg2/S0GcjbG6oTlMSHC262tc3/JfmbHZLpOQpGsfKBAYuFlnh0WVCK3RUBKNKW0NltroHuUXced+XhcJYmPw4UNRwIQf85vd/3Gs7ZwigcQIT66cRQgAFN76J1VMT+LX/BFHs/Oqwf1IBfkh4l9sctea8xmOWimGuajANqKAhnk8coFPAG1UWmmYaHUZcd5sF2l3lnHQeTEdzRUnt4NaOsNptCogm1Buupsxw7huwoDpP/tSLBkDwImpRxT3iwAa5iS8L+BE6ZL+7QMydTK8R8RTh6NeaUBJzjWMxW3Tp3d0ZNCrPeo2JtQPIgCXP9HorW73QQKXBnOe30upMFC/gcG5m/3eseOo/71WEgcB7zMD78AoLJ7wDqRwoYdapiM7fg6ejlP9gxnS6AcXAYH6Qk2ZR93bFNfckP79ITXv5bdp112zarnnZtNCszfJp3aw27Uopb+F1+bxPC02q3b9DYeg1fo="	121KB
https://cityscience.com/_static/??-eJyNktuwYAMhI9ojlSmWXMx7Vk4uMwtAcRBVd5+brKq2dZMvUHY+DO/f7hEpoMv4AsvzBC5jKXJGnNUDLXOfMRPR4RDB8l+leKXin7crmDM8Fc0NKxI+Xy38xvJLpg0WduK4UKkuWqojNcEXNmDIWSaeK5TA62UCenUAuzCc3PQvTaVUOTnEg7GJTgaDAi10EkHBJzYKWe1kNi0nS2jh8ZcZOWl+irATEFbjCXRR+bh9u0o0rgCoyzApDHBZ/Itsbs9g/e4dV+8iiFjweDR22cIrxs51Of/uOdVXTCSoap6Q0/xoGONLkhDHaVlS/cb3sw5KmdiC1o+1KxhvWf9XomhV6JXrTgl1u26rh2a4fm7RdPcr297cdgy4gQlSn2eZ/3eX0s/xvf2rW26Ztj1+y+Exzvc	85.9KB
https://cityscience.com/wp-content/astra-local-fonts/roboto-condensed/ieVI2ZhZI2eCN5jzbjEETS9weq8-19K7DQ.woff2	50.6KB
https://cityscience.com/wp-content/uploads/2023/08/hills.jpg	50.2KB
https://cityscience.com/	34.9KB
https://cityscience.com/wp-content/astra-local-fonts/pt-serif/EJRVQgYoZZY2vCFuvAFWzr8.woff2	32.6KB
https://cityscience.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	31.0KB
https://cityscience.com/wp-content/astra-local-fonts/pt-serif/EJRSQgYoZZY2vCFuvAnt66qSVys.woff2	29.2KB

Low

Properly size images

Potential savings of 7.03KB

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

URL	RESOURCE SIZE	POTENTIAL SAVINGS
https://i0.wp.com/cityscience.com/wp-content/uploads/2024/02/net-zero-thumbnail-turbine-179.jpeg?fit=1200%2C0&ssl=1	9.8KB	7.03KB

Low

Avoid multiple page redirects FCP LCP

Potential savings of 34ms

Redirects introduce additional delays before the page can be loaded.

URL	TIME SPENT
http://www.cityscience.com/	34ms
https://cityscience.com/	0ms

Low

Ensure text remains visible during webfont load FCP LCP

1 font found

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

URL	POTENTIAL SAVINGS
https://cityscience.com/wp-content/uploads/2024/01/fontello-1.woff2	12ms

Low

Avoid long main-thread tasks TBT

3 long tasks found

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

URL	START TIME	DURATION
• https://cityscience.com/	210ms	129ms
• https://cityscience.com/_static/??-eJytk9FWwJAMhI/WHgy5cLjo3iyNcxg2/S0GcjbG6oTlMShc262tc3/JfmbHZLpOQpGsfKBAYuFlhn0WVCK3RUbK NKW0NlroHuUXced+XhcJYmPw4UNRwIQf85vd/3Gs7ZwigcQIT66cRQgAFN76J1VMT+LX/BFHs/OqwF1Bfkh4I9sctea8xmOWimGuajANgKAhnk8c oFPAG1UWmmYaHUZcd5sF2I3lnHQeTEdzRUUnT4NaOsNptCoqm1Buupsxw7huwoDpP/SLBkDwImpRXT3iwAa5iS8L+BE6ZL+7QMMydTK8R8RTh6 NeaUBJzjWMxW3Tp3d0ZNCrPeo2JtQPiqCXP9HorW73QQKXBnOe30upMFC/gcG5m/3eseOo/71WEGcB7zMd78AoLJ7wDgRwoYdapiM7fg6ejlP9 gxnS6AcXAYH6Qk2ZR93bFNFckP79ITXv5bpd112zarnnZiNCszfJp3aw27Uopp+F1+bxPC02g3b9DYeg1fo=	407ms	124ms
• https://cityscience.com/_static/??-eJytk9FWwJAMhI/WHgy5cLjo3iyNcxg2/S0GcjbG6oTlMShc262tc3/JfmbHZLpOQpGsfKBAYuFlhn0WVCK3RUbK NKW0NlroHuUXced+XhcJYmPw4UNRwIQf85vd/3Gs7ZwigcQIT66cRQgAFN76J1VMT+LX/BFHs/OqwF1Bfkh4I9sctea8xmOWimGuajANgKAhnk8c oFPAG1UWmmYaHUZcd5sF2I3lnHQeTEdzRUUnT4NaOsNptCoqm1Buupsxw7huwoDpP/SLBkDwImpRXT3iwAa5iS8L+BE6ZL+7QMMydTK8R8RTh6 NeaUBJzjWMxW3Tp3d0ZNCrPeo2JtQPiqCXP9HorW73QQKXBnOe30upMFC/gcG5m/3eseOo/71WEGcB7zMd78AoLJ7wDgRwoYdapiM7fg6ejlP9 gxnS6AcXAYH6Qk2ZR93bFNFckP79ITXv5bpd112zarnnZiNCszfJp3aw27Uopp+F1+bxPC02g3b9DYeg1fo=	616ms	54ms

Low

Reduce JavaScript execution time TBT

168ms 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://cityscience.com/	391ms	22ms	2ms
• https://cityscience.com/_static/??-eJytk9FWwJAMhI/WHgy5cLjo3iyNcxg2/S0GcjbG6oTlMShc262tc3/JfmbHZLpO QpGsfKBAYuFlhn0WVCK3RUbKNKW0NlroHuUXced+XhcJYmPw4UNRwIQf85vd/3Gs7ZwigcQIT66cRQgAFN76J 1VMT+LX/BFHs/OqwF1Bfkh4I9sctea8xmOWimGuajANgKAhnk8coFPAG1UWmmYaHUZcd5sF2I3lnHQeTEdzRUUn T4NaOsNptCoqm1Buupsxw7huwoDpP/SLBkDwImpRXT3iwAa5iS8L+BE6ZL+7QMMydTK8R8RTh6NeaUBJzjWMx W3Tp3d0ZNCrPeo2JtQPiqCXP9HorW73QQKXBnOe30upMFC/gcG5m/3eseOo/71WEGcB7zMd78AoLJ7wDgRwo YdapiM7fg6ejlP9gxnS6AcXAYH6Qk2ZR93bFNFckP79ITXv5bpd112zarnnZiNCszfJp3aw27Uopp+F1+bxPC02g3b 9DYeg1fo=	261ms	123ms	8ms
• Unattributable	157ms	11ms	0ms

Low

Reduce unused CSS FCP LCP

Potential savings of 79.2KB

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://cityscience.com/_static/??-eJyNkttuwYAMhI9oJlSmWXmX7Vk4uMwtAcRBVd5+brKq2dZMvUHY+DO/f7hEpo Mv4AsvznBC5jKXJGnNUDLXOFMRPR4RDB8I+leKXin7cmDM8Fc0NKxl+Xy38xvJLpg0WduK4UKkuWqojNcEXNm DIWSaeK5TA62UCenUAuzCc3PQvTaVUOTnEg7GJTgaDAi10EkHBjzYKWe1kNti0nS2jh8ZcZOWI+irATEFbjCXRR+ bh9u0orgCoyzApDHBZ/Itsbs9g/e4dV+8iiFjweDR22clrXs51Of/uQdVXTCSoap6Q0/xoGONLkhdHaVIS/cb3sw5KmdI C1o+1Kxhwf9XomhV6JXrTgl1u26rh2a4fm7RdPcr297cdgy4gQlSn2eZ/3eX0s/xvf2rW26Ztj1+y+Exzvz	85.9KB	79.2KB

Low

Serve images in next-gen formats

Potential savings of 68.7KB

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://cityscience.com/wp-content/uploads/2023/08/city.jpg	124KB	25.5KB
https://cityscience.com/wp-content/uploads/2023/08/homepage_ca9bbf1.jpg	129KB	24.3KB
https://cityscience.com/wp-content/uploads/2023/08/hills.jpg	49.9KB	18.9KB

Low

Defer offscreen images

Potential savings of 49.3KB

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://cityscience.com/wp-content/uploads/2023/08/hills.jpg	49.9KB	49.3KB

Low **Avoid non-composited animations** CLS 84 animated elements found

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

"It can be tough to find companies who are generally engaged in innovation from...

```
<div class="uagb-testimonial_wrap uagb-tm_imgicon-style-circle uagb-tm_image-posit..." style="width: 100%; display: inline-block;">
```

Unsupported CSS Property: visibility

visibility

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"City Science went into more detail than I expected, giving me the confidence i...

```
<div class="uagb-tm_content">
```

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ELEMENT	NAME
<pre><div class="uagb-tm__content"></pre> <p>Unsupported CSS Property: visibility</p> <p>"I can't think of a partner who could have given us this level of insight withi...</p>	visibility
<pre><div class="uagb-tm__content"></pre> <p>Unsupported CSS Property: visibility</p> <p>"I can't think of a partner who could have given us this level of insight withi...</p>	visibility
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<pre><div class="uagb-tm__overlay"></pre> <p>Unsupported CSS Property: visibility</p> <p>div > div.uagb-testimonial__wrap > div.uagb-tm__content > div.uagb-tm__overlay</p>	visibility
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<pre><div class="uagb-tm__text-wrap"></pre> <p>Unsupported CSS Property: visibility</p> <p>"I can't think of a partner who could have given us this level of insight withi...</p>	visibility
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<pre><div class="uagb-tm__overlay"></pre> <p>Unsupported CSS Property: visibility</p> <p>div > div.uagb-testimonial__wrap > div.uagb-tm__content > div.uagb-tm__overlay</p>	visibility
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ELEMENT	NAME
<p>"We went to City Science because we'd heard they were leading thinkers in decar...</p> <pre><div class="uagb-tm__text-wrap"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
<p>div > div.uagb-testimonial__wrap > div.uagb-tm__content > div.uagb-tm__overlay</p> <pre><div class="uagb-tm__overlay"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
<p>div > div.uagb-testimonial__wrap > div.uagb-tm__content > div.uagb-tm__overlay</p> <pre><div class="uagb-tm__overlay"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
<p>"City Science went into more detail than I expected, giving me the confidence i...</p> <pre><div class="uagb-tm__desc"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Spencer Powell – LDA Design Company Name</p> <pre><div class="uagb-tm__meta-inner"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
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<p>"It can be tough to find companies who are generally engaged in innovation from...</p> <pre><div class="uagb-tm__desc"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
<p>Debbie Bondi Head of Innovation, Greater Cambridgeshire Partnership Company Name</p> <pre><div class="uagb-tm__meta-inner"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
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<p>James Golden Graham – England's Economic Heartland Company Name</p> <pre><div class="uagb-tm__meta-inner"></pre> <p>Unsupported CSS Property: visibility</p>	visibility
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Unsupported CSS Property: visibility	visibility
Professor Edward Keedwell – Professor of AI, University of Exeter Company Name <div class="uagb-tm__meta-inner">	
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"We went to City Science because we'd heard they were leading thinkers in decar... <div class="uagb-tm__desc">	
Unsupported CSS Property: visibility	visibility
"City Science went into more detail than I expected, giving me the confidence i... <div class="uagb-tm__desc">	
Unsupported CSS Property: visibility	visibility
form.contact-form > div.wp-block-jetpack-contact-form > div.grunion-field-name-wrap > input#g2-name <input type="text" name="g2-name" id="g2-name" value="" class="name grunion-field" required="" aria-required="true" style="line-height: 1;border-color: var(--ast-global-color-5);font-size: 13px;">	
Unsupported CSS Property: padding-left	padding-left
Unsupported CSS Property: padding-right	padding-right
form.contact-form > div.wp-block-jetpack-contact-form > div.grunion-field-email-wrap > input#g2-email <input type="email" name="g2-email" id="g2-email" value="" class="email grunion-field" required="" aria-required="true" style="line-height: 1;border-color: var(--ast-global-color-5);font-size: 13px;">	
Unsupported CSS Property: padding-left	padding-left
Unsupported CSS Property: padding-right	padding-right
form.contact-form > div.wp-block-jetpack-contact-form > div.grunion-field-textarea-wrap > textarea#contact-form-comment-g2-message <textarea style="line-height: 1;border-color: var(--ast-global-color-5);font-size: 13px;" name="g2-message" id="contact-form-comment-g2-message" rows="20" class="textarea grunion-field">	
Unsupported CSS Property: padding-left	padding-left
Unsupported CSS Property: padding-right	padding-right
Professor Edward Keedwell – Professor of AI, University of Exeter Company Name <div class="uagb-testimonial-details">	
Unsupported CSS Property: visibility	visibility
James Golden Graham – England's Economic Heartland Company Name <div class="uagb-testimonial-details">	
Unsupported CSS Property: visibility	visibility
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ELEMENT	NAME
Spencer Powell – LDA Design Company Name <div class="uagb-testimonial-details"> Unsupported CSS Property: visibility	visibility
Spencer Powell – LDA Design Unsupported CSS Property: visibility	visibility
Company Name Unsupported CSS Property: visibility	visibility
Professor Edward Keedwell – Professor of AI, University of Exeter Unsupported CSS Property: visibility	visibility
Company Name Unsupported CSS Property: visibility	visibility
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Debbie Bondi Head of Innovation, Greater Cambridgeshire Partnership Unsupported CSS Property: visibility	visibility
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Company Name Unsupported CSS Property: visibility	visibility
Professor Edward Keedwell – Professor of AI, University of Exeter 	

ELEMENT

NAME

Unsupported CSS Property: visibility

visibility

James Golden Graham – England's Economic Heartland

Unsupported CSS Property: visibility

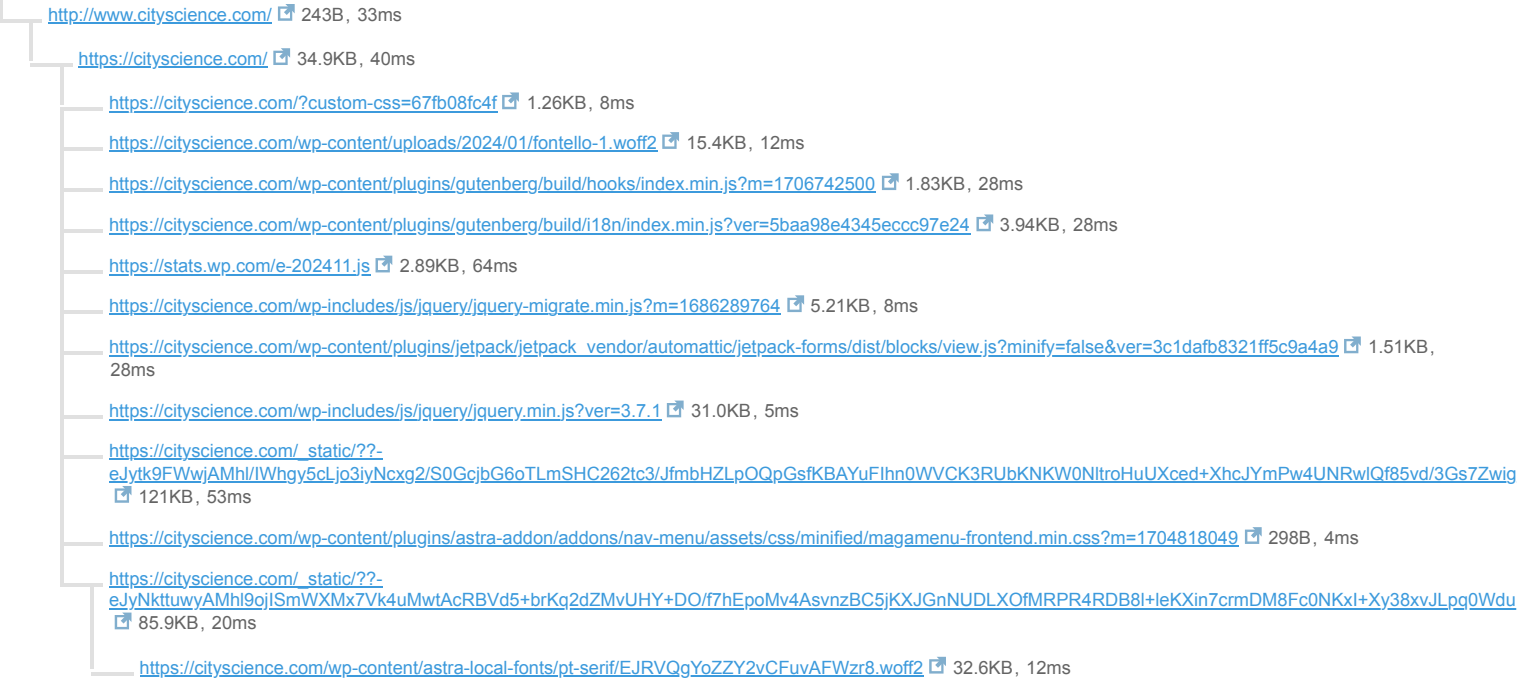
visibility

Low **Avoid chaining critical requests** FCP LCP 11 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: **402ms**

INITIAL NAVIGATION



Low **Reduce unused JavaScript** LCP Potential savings of 83.9KB

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

URL	TRANSFER SIZE	POTENTIAL SAVINGS
https://cityscience.com/ static/??-eJytk9FWwjAMhI/IWhgy5cljo3iyNcxg2/S0GcjbG6oTLmSHC262tc3/JfmbHZLpOQpGsfKBAYuFIhn0WVCK3RUbKNKW0NltroHuUXced+XhcJYmPw4UNRwIQf85vd/3Gs7ZwigQIT66cRQgAFN76J1VMT+LX/BFHs/OqwF1IBfkh4I9sctea8xmOWimGuajANqKAhnk8coFPAG1UWmmYaHUZcd5sF2I3InHQeTEdzRUjT4NaOsNptCogm1Buupsxw7huwoDpP/tSLBkDwImpRxT3iwAa5iS8L+BE6ZL+7QMjydTK8R8RTh6NeaUBJzjWMxW3Tp3d0ZNCrPeo2JtQPlqCXP9HorW73QQKXBN0e30upMFC/gcG5m/3eseOo/71WEGcB7zMd78AoLJ7wDgRwoYdapiM7fg6ejlP9gx nS6AcXAYH6Qk2ZR93bFNFckP79ITXv5bdp112zarnZtNCszfJp3aw27Uopb+F1+bxcpC02q3b9DYEq1fo=	121KB	83.9KB

N/A **Largest Contentful Paint element** LCP 490 ms

This is the largest contentful element painted within the viewport.

ELEMENT

```
article#post-2 > div.entry-content > div.wp-block-uagb-container > div.wp-block-uagb-container
<div class="wp-block-uagb-container uagb-block-a37736a2">
```

PHASE	% OF LCP	TIMING
TTFB	13%	62ms
Load Delay	34%	167ms
Load Time	6%	30ms
Render Delay	47%	231ms

N/A **Eliminate render-blocking resources** FCP LCP Potential savings of 19ms

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://cityscience.com/_static/??-eJyNktuwyAMhl9ojISmWXMx7Vv4uMwtAcRBVd5+brKq2dZMvUHY+DO/f7hEpoMv4A_svnzBC5jKXJGnNUDLXOfMRPR4RDB8l+leKXin7crrDM8Fc0NKxl+Xy38xvJLpg0WduK4UKkuWqgjNcEXNmDIW_SaeK5_TA62UCenUAuzCc3PQvTaVUOTnEg7GJTgaDAI10EkHBjzYKWe1kNt0nS2jh8ZcZOWI+irATEFbjCXRR+bh9u0oorgCoyz_ApDHBZ/ltsbs9g/e4dV+8iifjweDR22clrXs51Of/uOdVXTCSoap6Q0/xoGONLkhDHaVIS/cb3sw5Kmdic1o+1KxhvWf9Xom_hV6JXrTgl1u26rh2a4fm7RdPcr297cdgy4gQISn2eZ/3eX0s/xvf2rW26Ztj1+y+Exzvc	85.9KB	450ms
https://cityscience.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1	31.0KB	150ms
https://cityscience.com/wp-includes/js/jquery/jquery-migrate.min.js?m=1686289764	5.21KB	150ms

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
https://cityscience.com/	3ms

N/A **Avoid serving legacy JavaScript to modern browsers** TBT Potential savings of 46B

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
<a >https:="" 3eseoo="" 3gs7zwigcqit66crqgafn76j1vmt+lx="" 71wegcb7zmd78aolj7wdgrwoydapim7fg6ejlp9gxns6acxayh6qk2zr93bfnfckp79itxv5bdp112zarnnzincszfjp3a_w27uopp+f1+bxpc02q3b9dyeg1fo="</a" ??-ejytk9fvwwamhi="" _static="" bfhs="" cityscience.com="" gcg5_m="" href="https://cityscience.com/_static/??-eJytk9FVWwAMhI/IWhgy5cljo3iyNcxg2/S0GcjbG6oTLmSHC262tc3/JfmbHZLpOQpGsfKBAYuFIhn_0WVCK3RUbKNKW0NltroHuUXced+XhcJYmPw4UNRw/Qf85vd/3Gs7ZwigcQIT66cRQgAFN76J1VMT+LX/BFHs/OqwF1IBfk4l9sct_ea8xmOWimGuajANqKAhnk8coFPAG1UWmmYaHUZcd5sF2l3lnHQeTEdzRUt4NaOsNptCqgm1Buupsxw7huwoDpP/ISLbkDwlm_pRxT3iwAa5iS8L+BE6ZL+7QMjydTK8R8RTh6NeaUBJzjWMMxW3Tp3d0ZNCrPeo2JiQPIqCXP9HorW73QQKXBnOe30upMFC/gcG5_m/3eseOo/71WEGcB7zMd78AoLJ7wDgRwoYdapiM7fg6ejlP9gxnS6AcXAYH6Qk2ZR93bFNFckp79ITXv5bdp112zarnnZiNCszfJp3a_w27Uopp+F1+bxPC02q3b9DYEg1fo=" islbkdwlm_prxt3iwaa5is8l+be6zl+7qmjydtk8r8rth6neaubjzjwmmxw3tp3d0zncrpeo2jiqpiqcxp9horw73qqkxbnoe30upmfc="" iwhgy5cljo3iyncxg2="" jfmbhzlpoqpgsfkbayufihn_0wvck3rubknkw0nltrohuuxced+xhcjympw4unrw="" oqwf1ibfk4l9sct_ea8xmowimguajanqkahnk8cofpag1uwmmyahuzcd5sf2l3lnhqetedzrut4naosnptcqgm1buupsxw7huwodpp="" qf85vd="" s0gcjbg6otlmshc262tc3="">	46B

Line:2 Column:452

```
@babe
l/plug
in-tra
nsform
-class
es
```

N/A

Avoid large layout shifts CLS

1 element found

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

ELEMENT	CLS CONTRIBUTION
We help clients who are committed to decarbonisation achieve meaningful and qua... <h2 class="wp-block-heading has-text-align-center has-ast-global-color-0-color has-te..." style="font-style:italic;font-weight:400;line-height:1.7">	0.00

N/A

Minimize main-thread work TBT

Main-thread busy for 885ms

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

CATEGORY	TIME SPENT
Style & Layout	307ms
Other	295ms
Script Evaluation	196ms
Parse HTML & CSS	41ms
Rendering	29ms
Script Parsing & Compilation	15ms

N/A

Reduce the impact of third-party code TBT

Total size was 59.9KB

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
WORDPRESS	56.8KB	0ms
• https://i0.wp.com/cityscience.com/wp-content/uploads/2024/01/RTPI-e1705683495650-300x188.jpg?fit=1200%2C0&ssl=1	22.6KB	0ms
• https://i0.wp.com/cityscience.com/wp-content/uploads/2024/01/BASEE-e1705683515648-300x188.jpg?fit=1200%2C0&ssl=1	11.7KB	0ms
• https://i0.wp.com/cityscience.com/wp-content/uploads/2024/02/net-zero-thumbnail-turbine-179.jpeg?fit=1200%2C0&ssl=1	10.2KB	0ms
• https://i0.wp.com/cityscience.com/wp-content/uploads/2024/01/Regional-Decarbonisation-e1705683425662-300x188.jpg?fit=1200%2C0&ssl=1	5.64KB	0ms
• Other resources	6.61KB	0ms
WORDPRESS SITE STATS	3.17KB	0ms

N/A

User Timing marks and measures

No user timings and/or marks found.