

# Carbon Emission Intensity App

-Syamili S N, ACSCE

## Aim:

Using either Vue or React or Plain JS and a styling approach of your choice write a tiny app that takes an API endpoint.

## Project Details:

I have used **Vue JS** as the web framework and simple CSS in **VS code** IDE to display the data from the carbon emission Intensity (Regional) for half-hour API endpoint, in a tabular format. Given more time, I would have made it more visually appealing.

### GET /regional/regionid/{regionid}

*Get Carbon Intensity data for current half hour for specified region*

Get Regional Carbon Intensity data for current half hour for specified region. All times provided in UTC (+00:00).

#### Parameters

Parameter	In	Type	Required	Description
regionid	path	string	true	Region ID of GB region. See list of Region IDs <a href="#">here</a> .


## Main Code:

```
<script>
import Vue from "vue";
import axios from "axios";
import VueAxios from "vue-axios";
Vue.use(VueAxios, axios);
export default {
  name: "regionList",
  data() {
    return { list: undefined, mixlist: undefined };
  },
  mounted() {
    Vue.axios
      .get("https://api.carbonintensity.org.uk/regional")
      .then((resp) => {
        this.list = resp.data.data[0].regions;
        this.mixlist = resp.data.data[0].regions[0].generationmix;
        console.warn(resp.data.data[0].regions);
      });
  },
};
</script>
```

## Output:

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localhost:8082




### REGION LIST

Region ID	Ono Region	Generation mix	Forcast Intensity	Intensity Index	Short-name
1	Scottish Hydro Electric Power Distribution	biomass,0	0	very low	North Scotland
2	SP Distribution	biomass,1.4	15	very low	South Scotland
3	Electricity North West	biomass,10.7	152	moderate	North West England
4	NPG North East	biomass,29.2	100	low	North East England
5	NPG Yorkshire	biomass,32	227	high	Yorkshire
6	SP Manweb	biomass,3.8	119	low	North Wales & Merseyside
7	WPD South Wales	biomass,0	385	very high	South Wales
8	WPD West Midlands	biomass,2.9	361	very high	West Midlands
9	WPD East Midlands	biomass,3.9	443	very high	East Midlands
10	UKPN East	biomass,0.4	293	high	East England

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13	UKPN London	biomass,0.2	277	high	London
14	UKPN South East	biomass,0	250	high	South East England
15	England	biomass,7.1	276	high	England
16	Scotland	biomass,0.9	11	very low	Scotland
17	Wales	biomass,0	314	high	Wales
18	GB	biomass,6	251	high	GB

Region ID	Generation mix								
Observer->	1	2	3	4	5	6	7	8	9
Fuel->	Biomass	Coal	Imports	Gas	Nuclear	Other	Hydro	Solar	Wind
1	0%	0%	0%	0%	0%	0%	26.3%	0%	73.7%
2	1.4%	0%	0%	3.5%	43.6%	0%	2%	0%	49.5%
3	10.7%	0%	4.4%	35.3%	21.6%	0%	0.3%	0%	27.6%
4	29.2%	0%	34.6%	16.3%	4.6%	0%	0.2%	0%	15.2%
5	32%	0%	0%	47.8%	0%	0%	0%	0%	20.2%
6	3.8%	0.2%	1.6%	28.5%	16.7%	0%	17.7%	0%	31.5%
7	0%	0%	0%	97.6%	0%	0%	0%	0%	2.4%
8	2.9%	6.6%	5.3%	74.3%	3.9%	0%	0.1%	0%	6.8%
9	3.9%	15.9%	0%	73.5%	0%	0%	0%	0%	6.8%
10	0.4%	1.9%	16.8%	48.8%	21.7%	0%	0%	0%	10.4%
11	0%	0%	0%	77.5%	21.9%	0%	0%	0%	0.6%
12	0.2%	1.2%	20.5%	73.4%	4.1%	0%	0%	0%	0.6%
13	0.2%	1%	24.9%	58.2%	9.1%	0%	0.8%	0%	5.8%
14	0%	0%	34.3%	58.7%	0%	0%	1.9%	0%	5.1%
15	7.1%	3.3%	12%	55.2%	9.3%	0%	1%	0%	12.1%
16	0.9%	0%	0%	2.5%	32.8%	0%	7.7%	0%	56.2%
17	0%	0%	0%	79.7%	1.2%	0%	11%	0%	8.1%
18	6%	2.7%	10%	51.4%	11.2%	0%	2.4%	0%	16.4%

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