

FINAL REPORT DATA SCIENCE - CAPSTONE PROJECT

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BUY AN ELECTRIC CAR IN SPAIN?

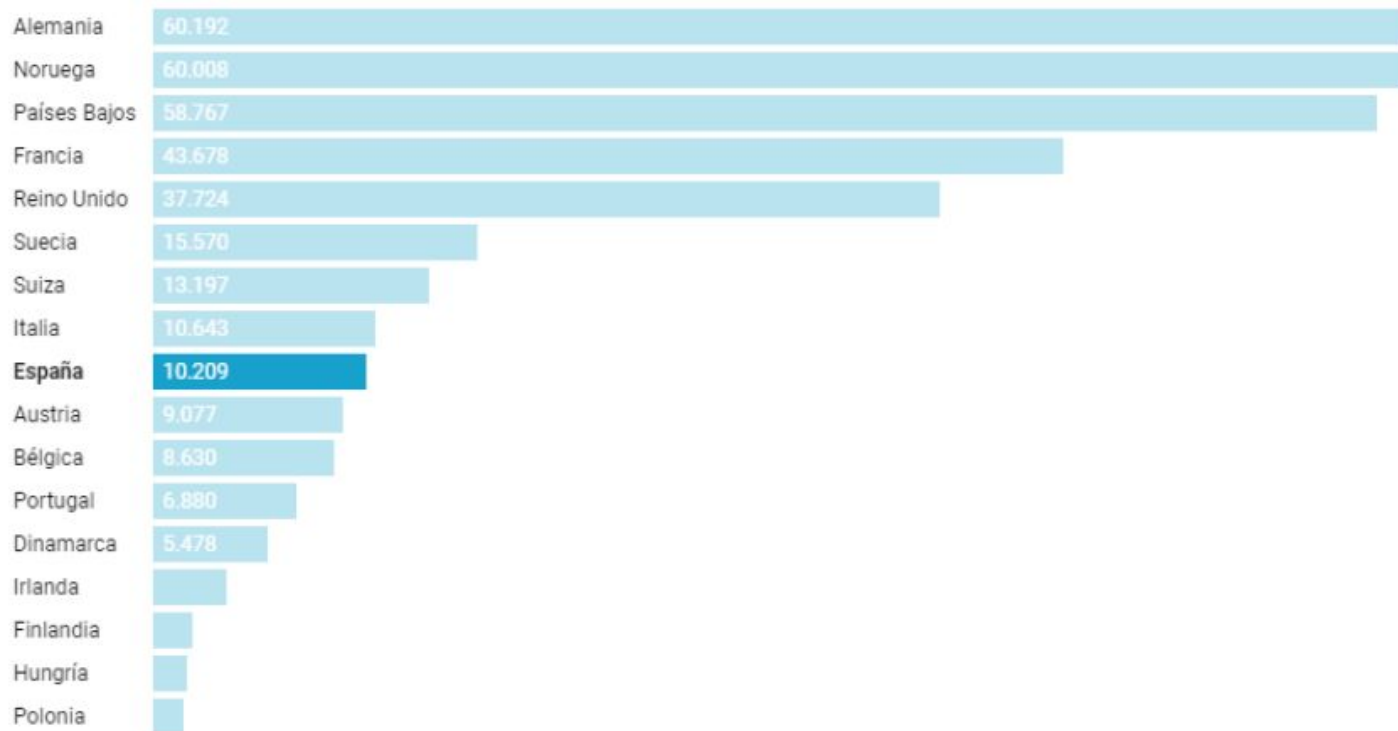
On climate change, there are many actions that scientists and the entire population are taking, trying to improve efforts seeking a change and everything that contributes to reduce the carbon footprint.



DATA DICTIONARY

Columna	Tipo	Etiqueta	Descripción
Titular	text		
Situación	text		
Longitud	numeric		
Latitud	numeric		
Número de conectdores	text		
Tipo de conectores	text		
Precio	text		
Cables y adaptadores	text		
Reservar	text		
Horario	text		
Límite de tiempo	text		

Number of registered electric cars, country by country



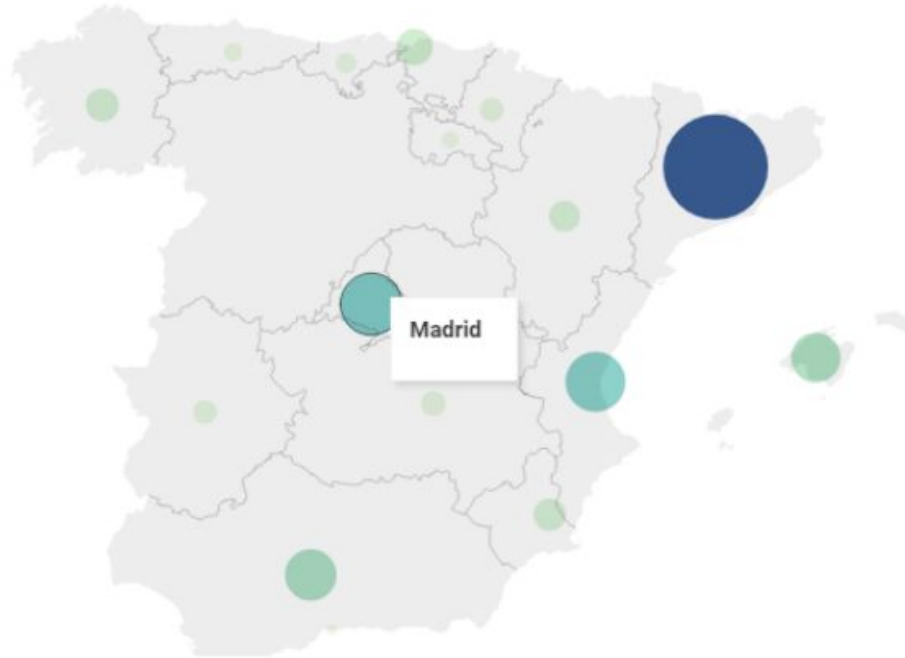
Source: [European Environment Agency](#) • [Get the data](#) • Created with [Datawrapper](#)

Public access charging points

Número de puntos de carga



12 2,961



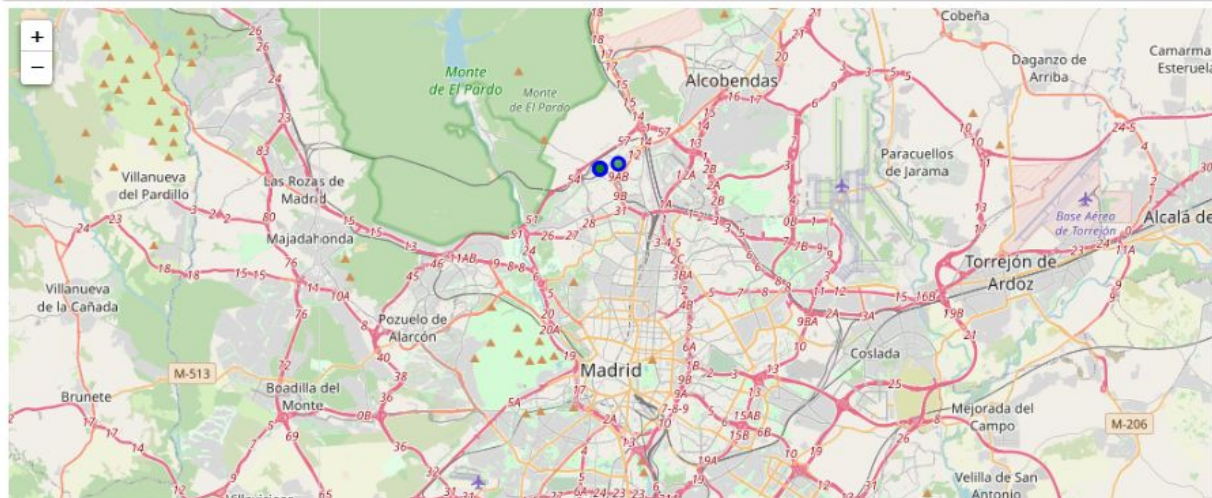
NOTEBOOK RESULT

```
In [99]: venues_map = folium.Map(location=[latitude1, longitude1], zoom_start=11) # generate map centred around the Conrad Hotel
```

```
for lat, lng, label in zip(df4.lat, df4.lng, df4.categories):  
    folium.CircleMarker(  
        [lat, lng],  
        radius=5,  
        color='blue',  
        popup=label,  
        fill = True,  
        fill_color='green',  
        fill_opacity=0.6  
    ).add_to(venues_map)
```

venues_map


Out[99]:



CONCLUSIONS

The figures and the analysis carried out show that there has been a slow growth in the purchase of electric vehicles and the adoption of this new technology is surrounded by causes other than the technology itself. It is evident that the purchase costs between electric vehicles and combustion vehicles are increasingly closer and that greater impetus is required from the Spanish government for the implementation of more charging points and service stations available for this type of vehicles.

Currently the decision to buy an electric vehicle is correct for the cities of Madrid and Catalonia according to the analysis carried out, which coincides with the figures obtained in the study loaded in the notebook.



REFERENCES

<https://hipertextual.com/2021/05/coches-electricos-espana-plan-moves-iii>

<https://www.autocasion.com/actualidad/noticias/cuantos-coches-hay-espana-mas-viejos>





Thanks