

Dataset

	waste_type	total_waste_generated_tonne			
1	Construction & Demolition	1624000			
2	Ferrous Metals	1269000			
3	Paper/Cardboard	1054000			
4	Plastics	949000			
5	Food	763000			
6	Wood/Timber	521000			
	total_waste_recycled_tonne	year	total_waste_not_recycled_tonne	recycling_rate	
1	1618000	2018	6	1.00	
2	126000	2018	1143	0.10	
3	586000	2018	468	0.56	
4	41000	2018	908	0.04	
5	126000	2018	637	0.17	
6	428000	2018	93	0.82	
	wasting_rate				
1	0.00				
2	0.90				
3	0.44				
4	0.96				
5	0.83				
6	0.18				

## Not Found

#intend to add shiny to allow user to chose the material and then the graph x axis will be the year and y axis will be waste generated, waste recycled and waste not recycled. -> to be able to see the number when u hover over it.

#another shiny interaction to see the recycling rate for each material. x-axis: year; y axis: rate (interactive scatter plot)-> to be able to see the number when u hover over it.

# #Column

## Chart B

```
# A tibble: 15 × 3
  Material                                Total Waste Generate...1 Total Waste Recycled...2
  <chr>                                <dbl>                <dbl>
1 Overall                                131824000              75119000
2 Paper/Cardboard                        23530000              11504000
3 Ferrous Metals                         22414000              20472000
4 Construction & Demolition              22245000              21970000
5 Plastics                               15797000              1280000
6 Food                                   13681000              1836000
7 Wood/Timber                            6608000              4440000
8 Horticultural                          5521000              3197000
9 Others (stones, ceramic, rubbe...     5426000              197000
10 Used Slag                             5003000              4786000
11 Textile/Leather                       2854000              199000
12 Non-Ferrous Metals                    2094000              1865000
13 Glass                                 1413000              236000
14 Used slag                             1366000              1347000
15 Scrap Tyres                           502000              431000
# i abbreviated names: 1`Total Waste Generated (tonnes)`,
# 2`Total Waste Recycled (tonnes)`
```

```
# A tibble: 15 × 3
  waste_type                                total_waste_generated total_waste_recycled
  <chr>                                <dbl>                <dbl>
1 Overall                                131824000              75119000
2 Paper/Cardboard                        23530000              11504000
3 Ferrous Metals                         22414000              20472000
4 Construction & Demolition              22245000              21970000
5 Plastics                               15797000              1280000
6 Food                                   13681000              1836000
7 Wood/Timber                            6608000              4440000
8 Horticultural                          5521000              3197000
9 Others (stones, ceramic, rubber, ...   5426000              197000
10 Used Slag                             5003000              4786000
11 Textile/Leather                       2854000              199000
12 Non-Ferrous Metals                    2094000              1865000
13 Glass                                 1413000              236000
14 Used slag                             1366000              1347000
15 Scrap Tyres                           502000              431000
```

## Chart C

16M



■ Waste Generated  
■ Waste Recycled

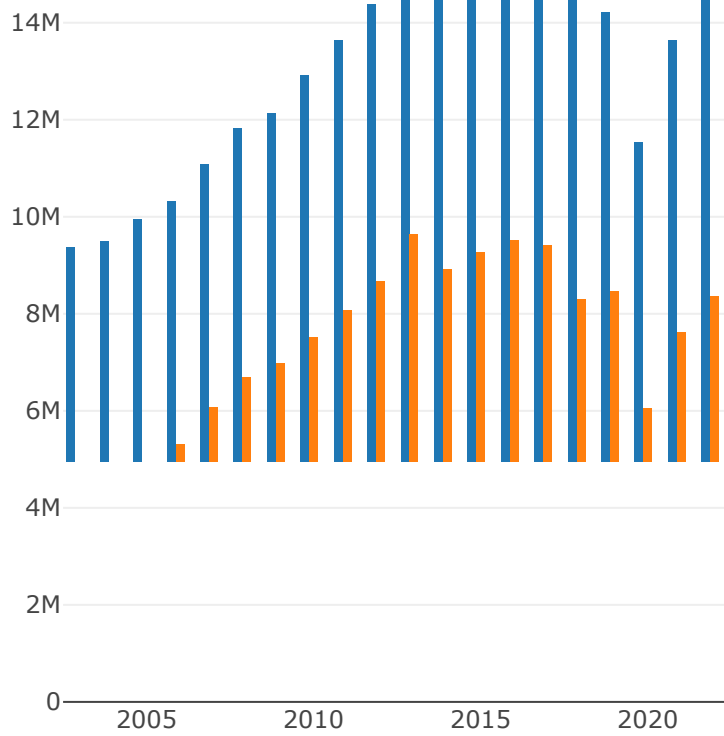
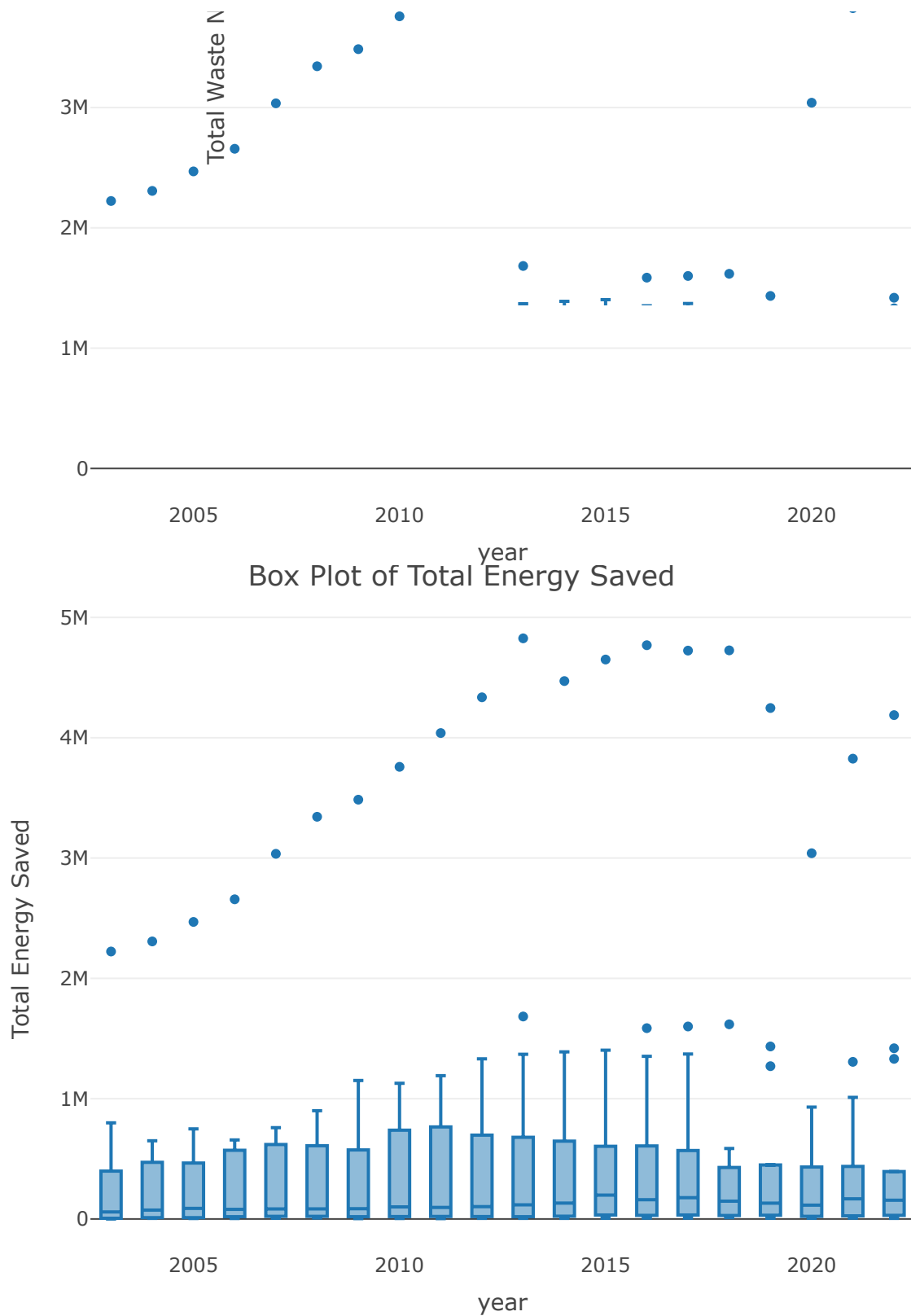


Chart D

	waste_type	total_waste_generated_tonne		
1	Construction & Demolition	1624000		
2	Construction & Demolition	1440000		
3	Construction & Demolition	825000		
4	Construction & Demolition	1013000		
5	Construction & Demolition	1424000		
6	Construction & Demolition	1595000		
	total_waste_recycled_tonne	year	total_waste_not_recycled_tonne	energy_saved
1	1618000	2018	6	34644
2	1434000	2019	6	252
3	822000	2020	3	1926
4	1011000	2021	2	28000
5	1419000	2022	5	20500
6	1586000	2016	9	3600
	crude_oil_saved			
1	96.00			
2	0.72			
3	5.40			
4	80.00			
5	55.00			
6	9.90			

Box Plot of Total Waste Not Recycled Tonne





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 ##### Chart E

```
#` `{r} #scatter plot graph fig<- plot_ly( data = total_data, x = ~year, y = ~energy_saved, size =
~total_waste_generate_tonne, color = ~material, sizes = c(10, 60), type = "scatter", mode = "markers" )
```

fig