EV Power - Lab 4 Project Report

Example Solution 1

Part 0: libraries

```
library(sf)
```

```
Linking to GEOS 3.13.1, GDAL 3.11.0, PROJ 9.6.0; sf_use_s2() is TRUE
```

```
library(rnaturalearth)
library(dplyr)
```

```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

    filter, lag

The following objects are masked from 'package:base':

    intersect, setdiff, setequal, union
```

```
library(ggplot2)
library(tidyverse)
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v forcats   1.0.1     v stringr   1.5.2
v lubridate 1.9.4     v tibble    3.3.0
v purrr     1.1.0     v tidyr     1.3.1
v readr     2.1.5

-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to beco
```

Part 1: Defining Research Question

Chosen Question: How has renewable energy usage increased over the years in comparison with total usage in the US? How have prices change as renewable energy usage has increased, and at what rate does it increase at? Which state has shown the most growht in renewable energy usage over the years through EV registration?

Part 2: Data Preparation and Cleaning

Part 3: Joining / Pivoting Datasets for Analysis

Part 4: Mapping Visualization