# The role of energy infrastructure in shaping early adoption of electric and gasoline cars

**SND-ID**: 2021-202-1. **Version**: 1. **DOI**: https://doi.org/10.5878/j8af-b705

#### **Download data**

electric\_vehicles\_regressions.dta (16.81 MB)
electric\_vehicles\_regressions.xls (56.09 MB)
Figure 2.do (1.19 KB)
hedonic regressions reproduction.do (15.47 KB)
logistic regressions.do (17.08 KB)
rafftrajtenberg.dta (1.9 KB)

## **Associated documentation**

readme.txt (7.58 KB)

#### **Download all files**

2021-202-1-1.zip (~72.94 MB)

#### Citation

Taalbi, J., & Nielsen, H. (2021) The role of energy infrastructure in shaping early adoption of electric and gasoline cars (Version 1) [Data set]. Lund University. Available at: https://doi.org/10.5878/j8af-b705

# Creator/Principal investigator(s)

<u>Josef Taalbi</u> - Lund University, Department of economic history Hana Nielsen - Lund University, Department of economic history

# Research principal

**Lund University** - Department of economic history

# **Description**

Electric vehicles have a potential to lower greenhouse gas emissions but still face challenges. This study asks what can be learned from US automobile history. In 1900 there were three equal contenders in the US automotive industry: gasoline, electric and steam cars. Only a decade later the gasoline car had achieved a crushing dominance. This dominance is often attributed to technoeconomic factors, such as an innate inferiority of electric cars. Meanwhile, the role of infrastructures is not well understood. The research project examines the mechanisms behind this process, using information on more than 36,000 passenger car models. One result is that the slow diffusion of electricity infrastructure gave gasoline cars the upper hand.

## Data contains personal data

No

#### Language

# **English**

# **Unit of analysis**

Geographic unit
Object

# **Population**

American personal vehicle models

### **Time Method**

**Longitudinal** 

## Sampling procedure

Total universe/Complete enumeration

# Time period(s) investigated

1895 - 1942

## Data format / data structure

**Numeric** 

### **Data collection 1**

• Mode of collection: Transcription

• Source of the data: Registers/Records/Accounts

## **Geographic spread**

Geographic location: United States

## Lowest geographic unit

Municipality

## **Highest geographic unit**

Country

## Responsible department/unit

Department of economic history

# **Funding 1**

- Funding agency: Jan Wallander and Tom Hedelius foundation
- Funding agency's reference number: W2015-0445

# **Funding 2**

- Funding agency: Jan Wallander and Tom Hedelius foundation
- Funding agency's reference number: W2017-0025

## Research area

**History** (CESSDA Topic Classification)

Science and technology (CESSDA Topic Classification)

Society and culture (CESSDA Topic Classification)

Economic history (Standard för svensk indelning av forskningsämnen 2011)

# **Keywords**

Electric cars, Gasoline cars, Technology choice, Infrastructure

## **Publications**

Taalbi, J.; Nielsen, H. (2021) The role of energy infrastructure in shaping early adoption of electric and gasoline cars, Nature Energy, doi: 10.1038/s41560-021-00898-3

**DOI:** <a href="https://doi.org/10.1038/s41560-021-00898-3">https://doi.org/10.1038/s41560-021-00898-3</a>

If you have published anything based on these data, <u>please notify us</u> with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

# **Accessibility level**

Access to data through SND Data are freely accessible

#### Use of data

Things to consider when using data shared through SND

#### License

CC BY-NC 4.0

#### **Versions**

Version 1. 2021-08-19

## Contact for questions about the data

Josef Taalbi

josef.taalbi@ekh.lu.se

# **Download metadata**

DataCite

**DDI 2.5** 

**DDI 3.3** 

DCAT-AP-SE 2.0

**ISON-LD** 

PDF

Citation (CLS)

File overview (CSV)

Published: 2021-08-19