# A BRIEF HISTORY OF **ELECTRIC VEHICLES**

From Europe to North America to Asia, the history of electric mobility is a demonstration of the world's persistent ingenuity and adaptation in transportation. The future of electric mobility — still to be written will stand, in part, on the achievements and lessons learned from these earlier periods.

### 1888

builds the first four-wheeled electric car.

The first commercial electric vehicles enter the New York City taxi fleet. The carmaker, Pope Manufacturing Co., becomes the first large-scale EV

### 1899

The "La Jamais Contente," built in France, becomes the first electric vehicle

Thomas Davenport, of the United States, invents and installs the first direct current electrical motor in a car that operates on a circular electrified track.

1832-39

Robert Anderson, of Scotland, builds the

first prototype electric-powered carriage.

German engineer Andreas Flocken

manufacturer in the United States.

to travel over 100 km per hour.

Electricity-powered cars become the top-selling road vehicle in the United States, capturing 28% of the market.

### 1908

The petrol-powered Ford Model T is introduced to the market.

### 1909

William Taft becomes the first U.S. President to purchase an automobile, a Baker Electric.

### 1912

The electric starter, invented by Charles Kettering, obviates the need for the hand-crank, making it easier for more people to drive petrol-powered cars.

### 1912

**GLOBAL EV STOCK REACHES HISTORICAL PEAK OF 30,000** 

### 1930s

By 1935, EVs become all-but-extinct due to the predominance of internal combustion engine (ICE) vehicles and availability of cheap petrol.

Oil rationing in Japan leads carmaker Tama to release a 4.5hp electric car with a 40V lead acid battery.

### 1966

The U.S. Congress introduces legislation recommending electric vehicles as a means of reducing air pollution.

### 1973

The OPEC oil embargo causes high oil prices, long lines at petrol filling stations, and renewed interested in EVs.

### 1976

the "PREDIT" programme accelerating EV RD&D.

### 1996

To comply with California's Zero Emission Vehicle (ZEV) requirements begins leasing the EV1 electric car.

In Japan, Toyota begins sales of the Prius, the world's first commercial hybrid car. 18,000 are sold in the first production year.

### 2008

Oil prices reach more than USD 145 per barrel.

### 2010

The BEV Nissan LEAF is launched.

### 2011

The world's largest electric car sharing service, Autolib, is launched in Paris with a targeted stock of 3,000 EVs.

### 2011

**GLOBAL EV STOCK REACHES NEW HISTORICAL PEAK OF 50,000** 

### 2011

French government fleet consortium commits to purchase 50,000 EVs over four years.

### 2011

Nissan LEAF wins European Car of the Year award.

### 2012

The PHEV Chevrolet Volt outsells half the car models on the U.S. market.

### 2012

**GLOBAL EV STOCK EXCEEDS 180,000** 



1901-1950

### 1951-2000

High oil prices and pollution cause renewed interest in electric vehicles.

THE SECOND AGE

2001-

### THE THIRD AGE

Public and private sectors recommit to vehicle electrification.

1801-1850

THE BEGINNING

The earliest electric vehicles are invented in Scotland and the United States.

# 1851-1900 THE FIRST AGE

Electric vehicles enter the marketplace and find broad appeal.

### THE BOOM & BUST

EVs reach historical production peaks only to be displaced by petrol-powered cars.

## **CLEAN ENERGY**



