

**ENGIE's Mobility** offerings & enablers are tested, proven, and trusted around the globe.

2<sup>nd</sup>

### Largest

provider of EV charging stations

900M+ kWh

charged in 2018

75,000+

installed charging stations globally

### \$3.2B in Savings

For US clients identified via data analytics over past 5 years

### 1,000,000+ Sites

Under management (25% of Fortune 500) supported by our platform and analytics

### 55+ Countries

use ENGIE-provided chargers

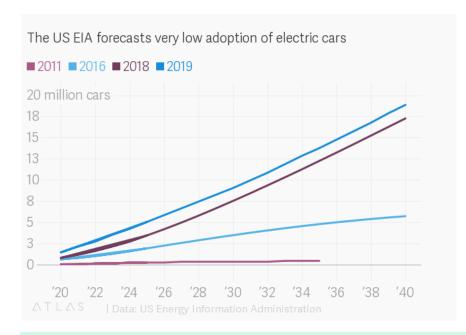
### 900 Experts & Researchers

In 11 R&D centers in North America

#### **Dozens**

Of proprietary software and digital solutions

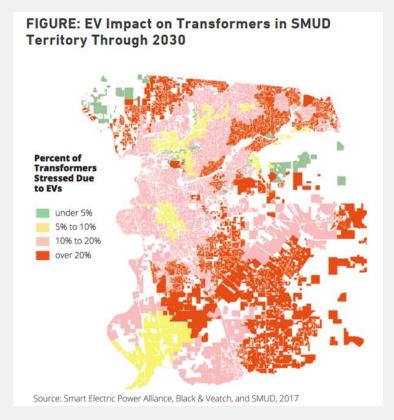
### Mass EV adoption is inevitable





- Each year, EV adoption forecasts are upwardly revised
- 13 states followed CA's lead on GHG standards and/or ZEV mandate
- EV is still a developing market despite their current electric power demand may be minute

## EVs create major infrastructure opportunities & challenges

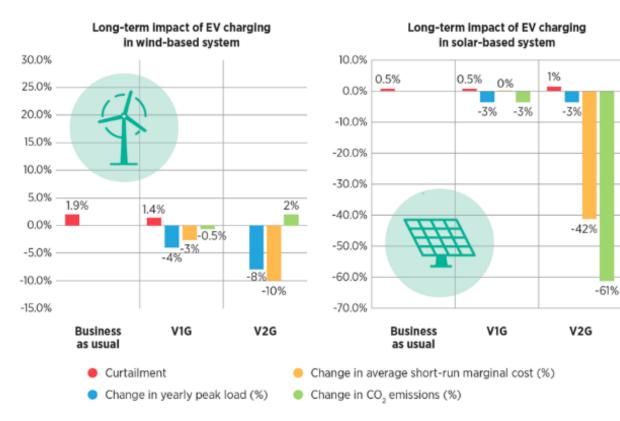




EVs are not dispersed evenly across all territories, as there has already been real-world evidence that they are clustered in particular areas, such as California



# Vehicle-Grid Integration | Considering EVs as energy assets creates new opportunities for equity & sustainability



Source: International Renewable Energy Agency (2019)

### **Aligned EV & infrastructure planning can:**

- Lower infrastructure costs (now & future)
- Reduced grid & transportation emissions
- More equitable access to clean transportation
- New economic opportunities

#### **ENGIE** is a global leader in VGI

- Policy & regulatory development
- Technical standards
- Technology development & deployment
- VGI operations & optimization

### Consequences for not addressing VGI are significant



Sub-optimal (possibly inadequate) grid infrastructure upgrades



High CAPEX for EV charging infrastructure



Slower EV adoption



Inequitable access to clean transportation



Reduced economic opportunity



# Regarding Mobility & Transportation, with regard to DC's 2050 Carbon & Equity goals, the most critical obstacle to overcome is:

Lack of alignment between transportation electrification and energy infrastructure development

