Fleet Sustainability

November 2020

About PepsiCo

PepsiCo products are enjoyed by consumers more than one billion times a day in more than 200 countries and territories around the world. PepsiCo's product portfolio includes a wide range of enjoyable foods and beverages, including 22 brands that each generates \$1 billion or more in estimated annual retail sales.

GLOBAL BEVERAGES



GLOBAL FOODS



PERFORMANCE



More than \$67 billion net revenue in 2019

BRANDS



billion-dollar brands*

SCALE



More than 200 countries & territories

PEOPLE



More than 260.000 employees









One of North America's Largest Private Fleets



Regulatory Drivers Toward Zero Emission Vehicles (ZEV)

CALIFORNIA

California Advanced Clean Truck proposed rulemaking will require ZEV medium- and heavy-duty trucks in 2 regulated groups

MANUFACTURERS*

Model Year	Class 2b-3*	Class 4-8 Vocational°	Class 7-8 Tractors
2024	5%	9%	5%
2035	55%	75%	40%

FLEETS

Fleet reporting and ZEV rule in development

MULTI-STATE

15 states and the District of Columbia issued joint MoU committing to advance electric medium- and heavy-duty vehicles, including California, Connecticut, Colorado, D.C., Hawaii, Maine, Maryland, Massachusetts, New Jersey, New York, North Carolina, Oregon, Pennsylvania, Rhode Island, Vermont and Washington.

GLOBAL

Cities across the world are implementing city-wide diesel bans, including:

- Paris
- Mexico City
- Hamburg
- Madrid
- Athens

Global policies are influencing federal, state, and local policy development



1.5°C – A World Of Difference





The recent report by the Intergovernmental Panel on Climate Change (IPCC) laid out a stark choice: we can either make the "rapid, far-reaching and unprecedented changes in all aspects of society" to hold temperature rise to 1.5°C above pre-industrial levels and hold off some of the worst climate impacts, or face irreversible damage to our societies, economies and the natural world.

Corporate action towards 1.5°C

While companies will be asked, at a minimum, to set targets that are compatible with the goal of keeping global warming well-below 2°C — as outlined by the Paris Agreement — acknowledging the risks involved in exceeding 1.5°C of warming, we are now urging companies to aim for targets that align with keeping warming below 1.5°C.

PEPSICO
2016
2°C Goal
REDUCE ABSOLUTE
GREEN HOUSE GAS
EMISSIONS ACROSS
OUR VALUE CHAIN BY
20%

GHG REDÚCTION GOAL

>>>,20%

In early 2020, we signed the UN's

Business Ambition for 1.5°C pledge

joining other leading companies in committing to set science-based emissions-reduction targets.

More aggressive Climate Goals on the horizon



Transition to Electric

- Business as usual diesel costs are volatile but well understood
- Transition to electric requires new considerations

Considerations when switching to electric are dynamic:

Time of Use Rates

Demand Charges

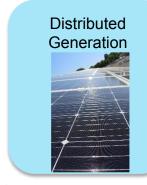
Seasonal Rates

Charge Management

Resilience

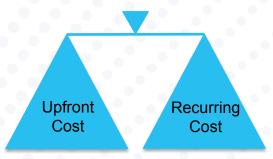
Partnerships

The solution to the complexity of electricity rates & resilience is:





The aim is to balance:





Need to Solve

Owned	Contracted Transport	
Equipment:	Charging:	
Availability Class 2b-8 Pricing/TCO Service Network Reliability Scalable Solutions	Utility Readiness Cost – Infrastructure, Energy, Demand Rate Plans Resilience Charge Management	Bidders Equipment Infrastructure





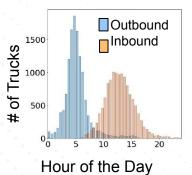






Example - Delivery Trucks @ a site





14 STRAIGHT TRUCKS

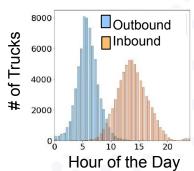
90% Operate < 50 miles/Day

Daily Dwell: 16 Hours

kWh/Mi: 1.2

Charger Size: 20 kW





71 ROUTE TRUCKS

90% Operate < 30 miles/Day

Daily Dwell: 15 Hours

kWh/Mi: 0.7

Charger Size: 7 kW

Regarding Mobility and Transportation, to achieve Carbon goals, a critical obstacle to overcome is – lack of effective solutions in a capital constrained environment.

