



**POWERING RESILIENCE:**

**HOW ELECTRIC VEHICLES  
CAN BRING POWER BACK  
TO COMMUNITIES**



**#TransportationTuesday**

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# MORE THAN JUST A CLEAN WAY TO GET AROUND HAWAI‘I

When we talk about electric vehicles (EVs), we usually talk about how they are cleaner than their fossil fueled counterparts.



As EVs have become **more reliable, accessible, and affordable for more people**, we can now start to talk about how EVs can **provide power** to those in need — and so, play a central role in disaster recovery.

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-- JAPAN --

## PROVIDING RESILIENCE IN THE WAKE OF DISASTER

In March of 2011, the northeastern coast of Japan was struck by an earthquake and tsunami that left **4.8 million households without power.**



In response to the disaster, **Nissan provided 66 LEAFs** to affected areas, using the **cars' batteries to provide power to homes, buildings, and communities.**

Electric lines are usually easier to restore than disrupted gasoline infrastructure, and during a natural disaster, using the **batteries from EVs provide a convenient and efficient option for community "lifelines".**

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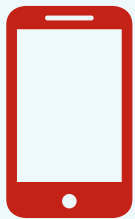


## FOR CONTEXT . . .

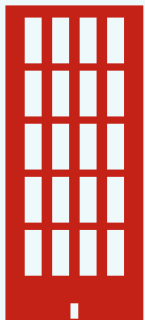
With a portable power station, the latest generation **Nissan LEAF e+** with a fully charged battery can **provide enough electricity to power:**



An average Japanese home for **4 days**  
OR an average US household for **2 days**



**6,200** smartphones



More than **100 elevator round trips** in a  
**43-story building**



# ELECTRIFICATION OF FLEETS IS ABOUT MORE THAN REDUCING EMISSIONS

As we continue to electrify our fleets (**see our previous post!**), we not only reduce emissions from ground transportation, but can also provide aid in the wake of natural disasters.





-- USA --

## PROVIDING RESILIENCE IN THE WAKE OF DISASTER

The Los Angeles Air Force Base became the **first federal facility** to replace its entire ground vehicle fleet with plug-in EVs!

Wildfires in California are **expected to intensify** in the near future due to the effects of climate change.

The mobility of EVs are advantageous in emergencies, and fleets can be deployed to locations and **quickly restore power to critical infrastructure in communities** that are affected from fire or storm damages.



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## RESOURCES

Powering Resilience: How EVs can help communities bounce back after a disaster | *Nissan Official Global Newsroom*

[\[bit.ly/TT-powerresilience\]](https://bit.ly/TT-powerresilience)

Electric vehicle models expected to triple in 4 years as declining battery costs boost adoption | *Utility Dive*

[\[bit.ly/EVbatterycost\]](https://bit.ly/EVbatterycost)

Fleet Tools: Electric Vehicles | *State Climate Commission*

[\[climate.hawaii.gov/electric-vehicles/\]](https://climate.hawaii.gov/electric-vehicles/)

How California can use EVs to keep lights on | *World Resources Institute*

[\[bit.ly/TT-EVresilienceCA\]](https://bit.ly/TT-EVresilienceCA)

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