



IEEE MOVE Operations -2023

Disaster Response and STEM Vehicles

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IEEE MOVE Trucks



Durham, NC

San Diego, Ca

MOVE Truck General Description

Capabilities

- High speed satellite uplinks to provide WiFi internet access
- High speed managed network switch for wired office networks
- Multi-vendor LTE (Cellular) access
- 10/20 kW generator
- 900 W solar panel array for recharging on-board batteries MOVE-1
- Wireless access, Ethernet, IP telephone, videoconferencing
- Internet commercial firewall and Internet security devices
- Recharging capability for 50 simultaneous solar battery packs
- Transporting equipment between locations
- HAM and Public Safety radios

MOVE truck deployment team

IEEE MOVE truck teams

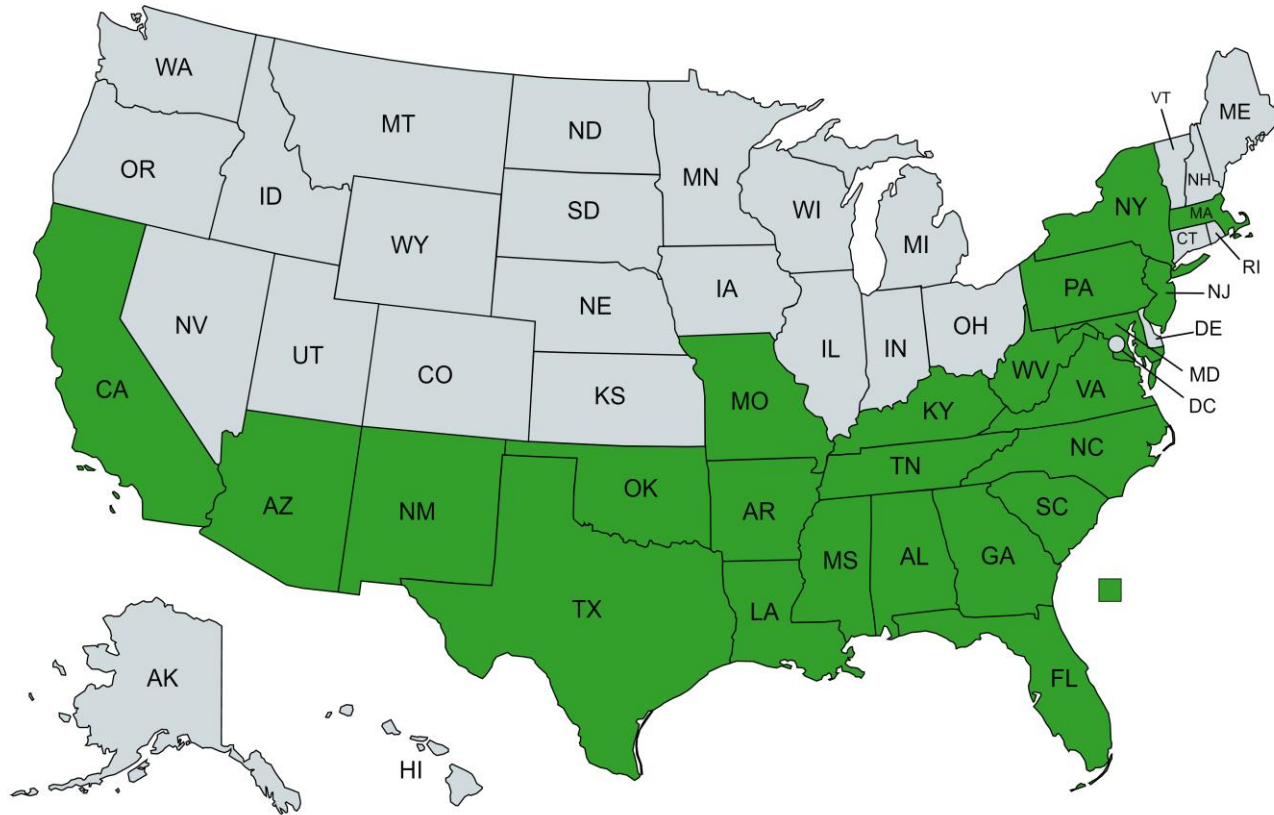
- Trucks are designed, maintained, and operated by IEEE volunteers
- All IEEE volunteers that deploy are also American Red Cross volunteers with DST GAPs
- Special qualified drivers, more being trained
- Over 300 trained volunteers
 - Most have technology backgrounds
 - Spread throughout the country
 - Ongoing training for new members

Support Teams

- The IEEE MOVE truck has several working groups that help keep the Disaster Response Vehicle ready for any requests and safe when deployed.
 - Disaster Deployment volunteers
 - STEM Outreach volunteers
 - Training
 - Maintenance
 - Networking
 - Weather
 - Radio Club

W4MOV

Current Geographic Reach



35 MOVE Disaster Relief Deployments

2023

- Mississippi Tornadoes
- Hurricane Idalia
- Hurricane Lee

2022

- Hurricane Ian (2)
- Border32 Fire (San Diego)
- Hurricane Fiona
- Kentucky fires
- Toa Alta and Cataño Flooding
- Tornadoes Kentucky area (from 2021)



2021

- Tornado Brunswick County, NC
- Tennessee Floods
- Hurricanes Ida/Nicholas(3)
- Tornadoes Kentucky area (2) (into 2022)

2020

- Tennessee Tornado
- Hurricane Isaias
- Hurricane Laura
- Hurricane Sally
- Hurricane Delta

2019

- Hurricane Dorian (FL, SC &NC)
- Hurricane Barry (Baton Rouge, Louisiana)
- Alabama Tornado Response

2018

- Hurricane Michael
- Hurricane Florence (NC)

2017

- Missouri Flood Relief
- Hurricane Maria
- Hurricane Irma (Florida)
- Hurricane Harvey (Houston)

2016

- Tennessee Wildfires
- Hurricane Matthew
- Hurricane Hermine
- Louisiana Flood Relief
- West Virginia Flood Relief

Hurricane Idalia - Florida



Storm damage



Storm Damage



Future

- Nov 2023, USA Board of Directors approved funds for an additional response vehicle
- Target is Region 5 – Dallas/Fort Worth
- We will utilize our Modular MOVE technology
- We are also upgrading our trucks to support 5G cellular technologies

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