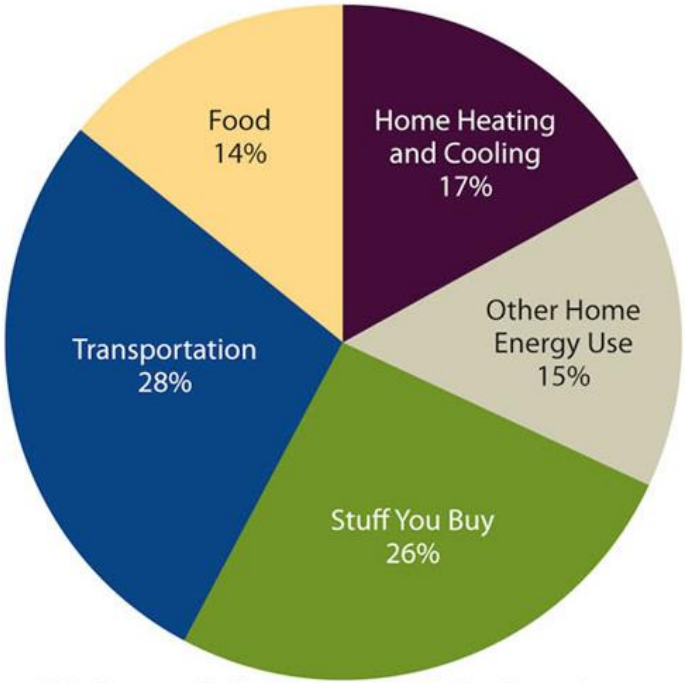

DECARBONIZE

Where the Average American's Carbon Emissions Come From



Union of Concerned Scientists

Thinking about Making the Leap into an Electric Vehicle?

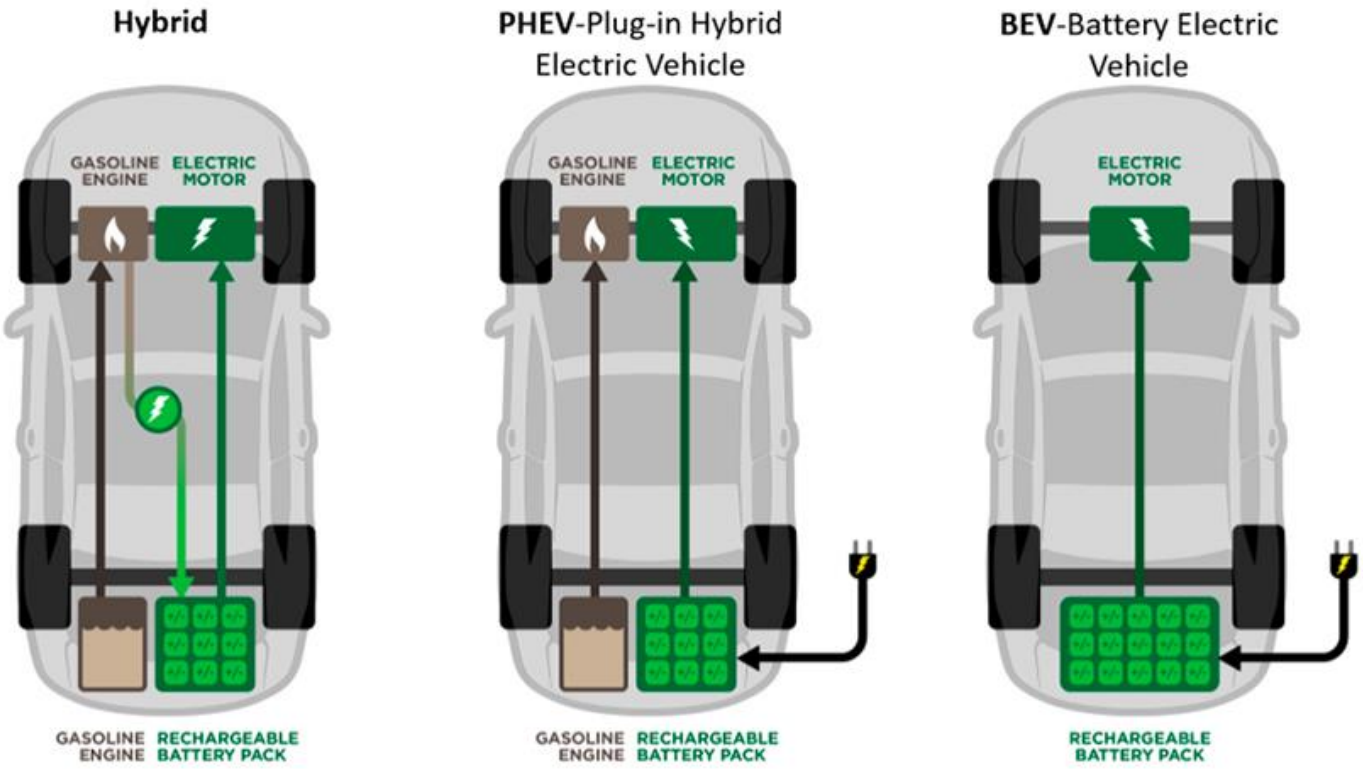
Homework is essential!!

Things to ask yourself:

- ***How big of a vehicle do I need?***
- ***What sort of range do I think I need?***
- ***Plug in hybrid or all electric?***
- ***What is the charging infrastructure available to support my travel patterns?***
- ***Is that realistic for my needs?***
- ***Do I need to install a charger at home?***
- ***Do I want my electricity to be local and renewable?***
- ***What are my options for that?***
  CLC Green, Community-shared solar, PV at your home

Ask friends who have one about their experience

Go test drive all the cars you are interested in



Source: Clean Fuels ohio

Toyota and others make plug-in hybrids

Two similar all electric cars:

Ford MachE

Tesla Model Y

Kia, Hyundai & VW small SUV EVs

Tesla Model 3 & Polestar 2

Resources for making informed decisions:

Massachusetts MOR-EV program: https://mor-ev.org/eligible-vehicles

Mass Drive Green website: https://www.greenenergyconsumers.org/drivegreen

Read reviews and watch tests online and test drive!!

Source: Suncommon

Bidirectional Charger + Solar

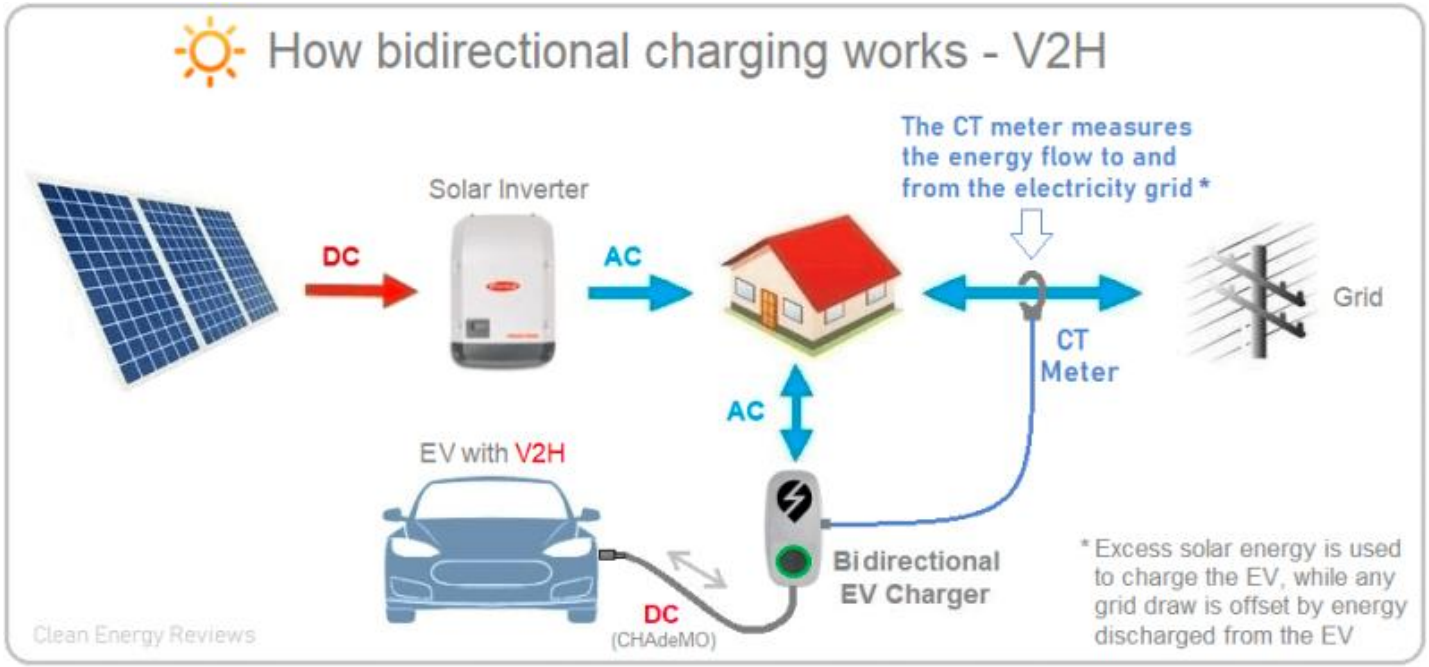
Source: News Atlas

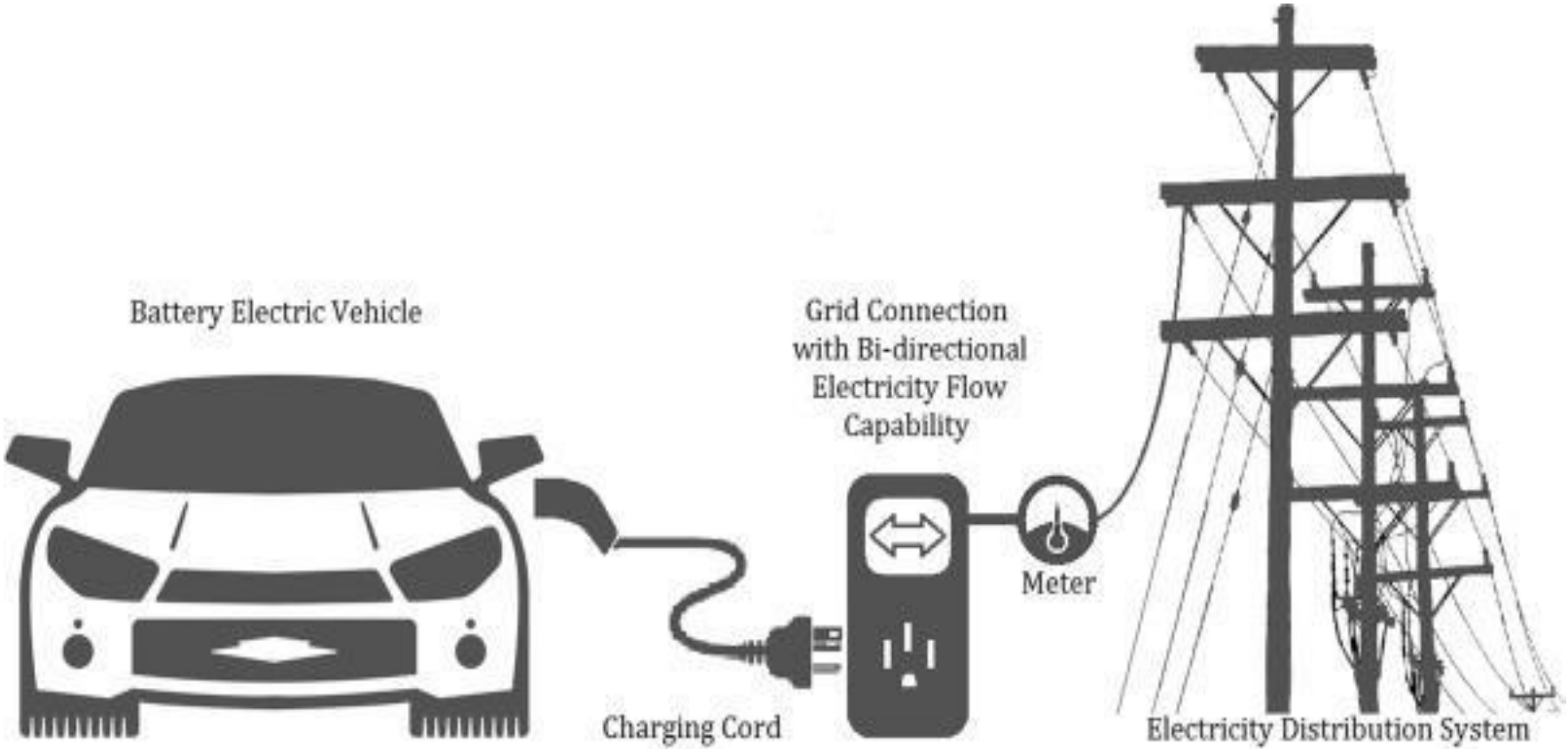
source: Auto Trends Magazine

What are your critical loads when the power is out?

Can Communities contribute a value to the grid?

Why might it be important?




Battery Electric Vehicle
Grid Connection with Bi-directional Electricity Flow Capability
Meter
Charging Cord
Electricity Distribution System

Source: Smart Charge America

Things to think about at the Community Level

Fast DC charging

+

Battery

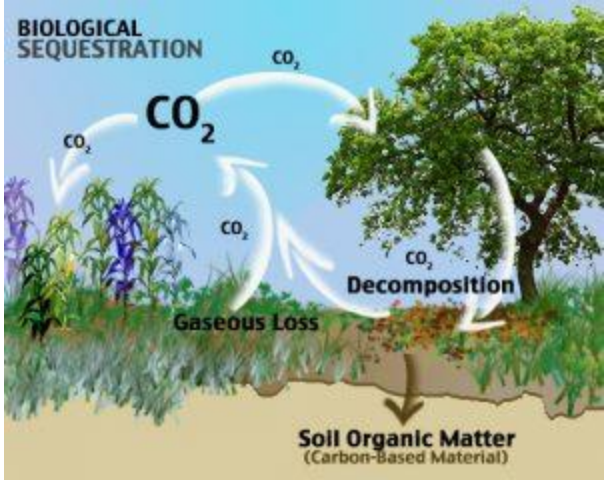
=

Microgrid asset

&

grid support during peak demand

Invest in



- Air Sealing & Insulation
- Fuel Switch-Air source heat pumps
- Source electricity from on-site renewables or community shared
- Sequester atmospheric carbon and improve native landscapes
- Energy Star purchases
- Electric vehicles & energy storage
- Energy management systems
- Occupant mindfulness of energy usage and GHG impact
- Reduce run-off & fertilizer use
- Purchase regeneratively sourced and recycled content products