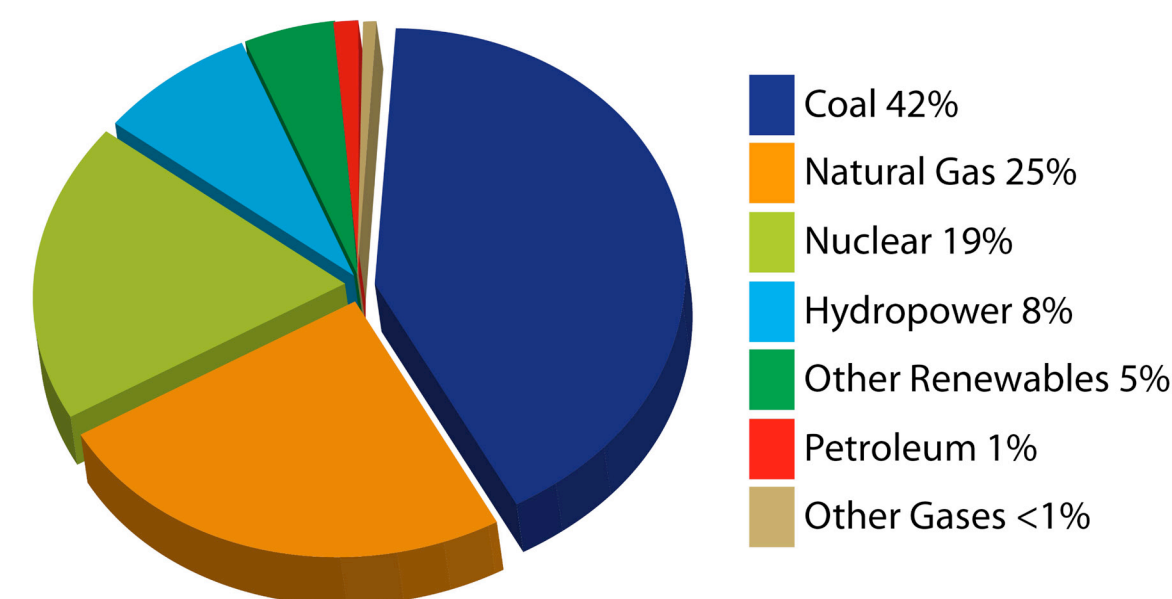
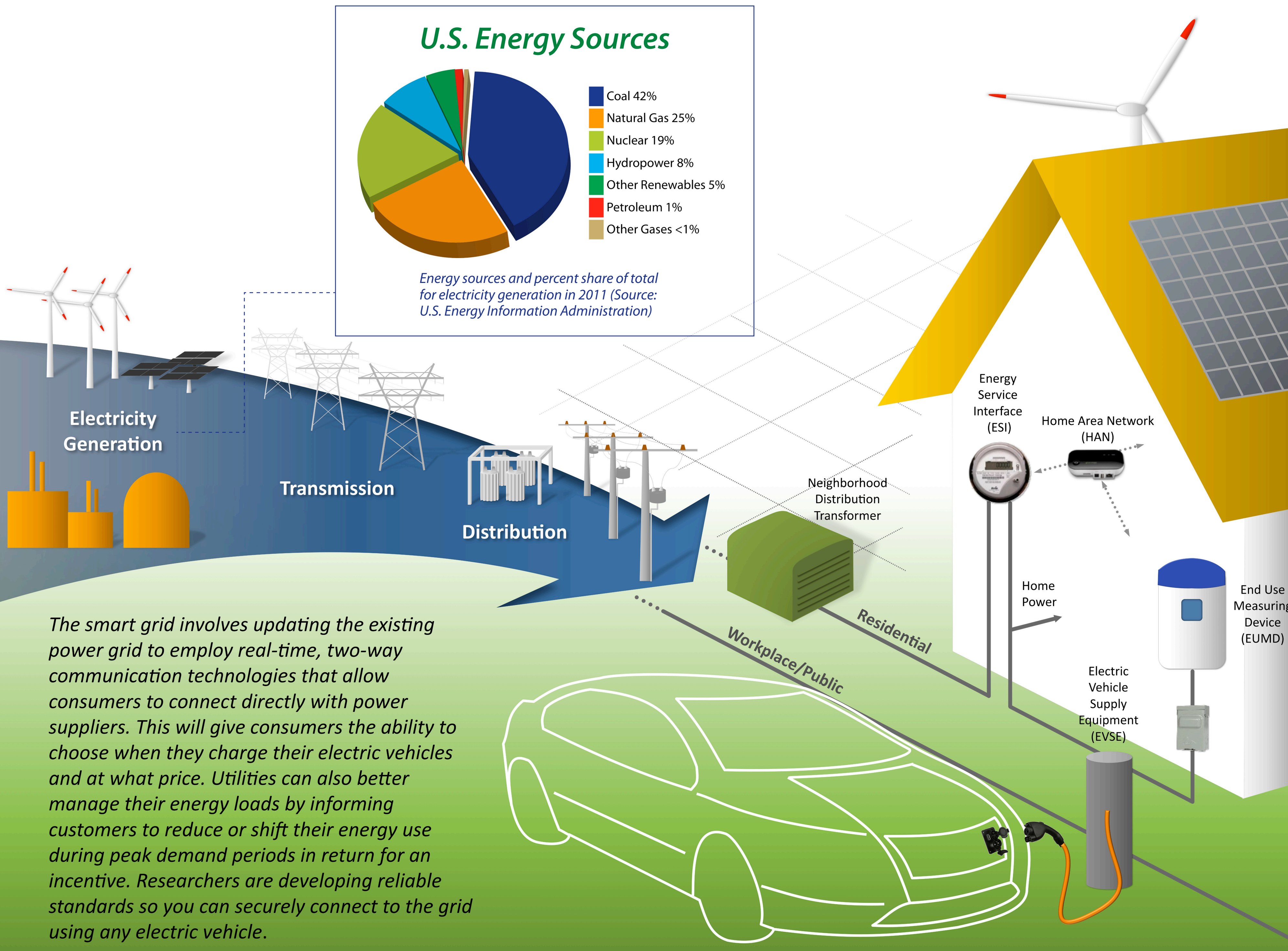


HOW YOU WILL CONNECT TO THE SMART GRID

U.S. Energy Sources

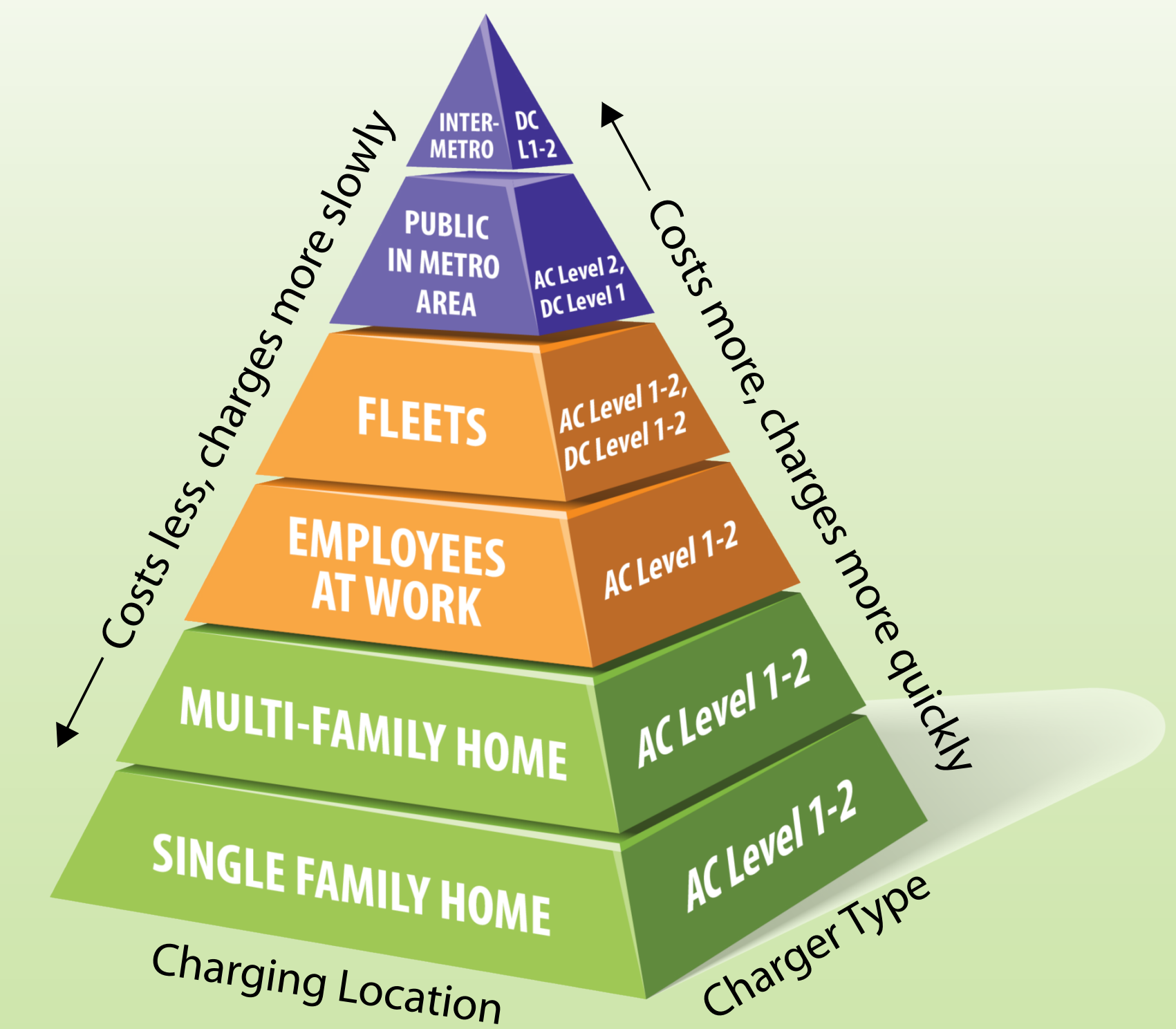


Energy sources and percent share of total for electricity generation in 2011 (Source: U.S. Energy Information Administration)



The smart grid involves updating the existing power grid to employ real-time, two-way communication technologies that allow consumers to connect directly with power suppliers. This will give consumers the ability to choose when they charge their electric vehicles and at what price. Utilities can also better manage their energy loads by informing customers to reduce or shift their energy use during peak demand periods in return for an incentive. Researchers are developing reliable standards so you can securely connect to the grid using any electric vehicle.

Electric Vehicle Charging Options



Cars charge most often where they are parked most often.

Types of Chargers

Level	Volts	Amps	kW
AC-1	120	20	2.4
AC-2	240	<80	<19.2
DC-1	<450	<80	<36
DC-2	<600	<400	<240

