

The background of the slide features a stylized globe on the left side, showing continents and oceans. A prominent blue horizontal bar is positioned at the top, with a white, cloud-like texture inside it. The overall color scheme is light blue and green, with a white border on the right and bottom edges.

Climate Protection and the Appliance Efficiency Program

**CEC Staff Workshop: Phase II Appliance Efficiency Regulations
October 11, 2010**

**Bill Knox,
California Air Resources Board**

Appliance Efficiency and GHG Emissions Reduction

- ARB supports broader, stronger appliance efficiency standards
 - TVs
 - consumer electronics
 - Battery chargers & rechargeable battery products
- Energy efficiency reduces CO₂ emissions at low or no cost to consumers
- Reduced demand makes reaching 2020 & 2050 GHG reduction goals cheaper

Why Battery Chargers?

- Rechargeable battery products are a major driver of plug loads
- Battery chargers use 7,700 GWh/yr*
- 40 percent reduction would reduce GHG emissions by well over a million metric tons of CO₂E / yr
(equivalent to annual CO₂ from > 100,000 cars)

*PG&E CASE

What's next?

- Address consumer electronics, small home appliances, office equipment
- Address other plug loads, appropriate HVAC
- Create & retrofit “zero-energy buildings”
- Devise robust program strategies to reduce demand/usage as EV fleets grow