

THE HIDDEN CLIMATE IMPACT OF ELECTRONICS:



F-GHGs



Many popular electronics contain liquid crystal display (LCD) panels.
Every time these are made, potent fluorinated greenhouse gases, or F-GHGs, are emitted into the atmosphere.

HERE'S THE LOWDOWN:

Greenhouse gases:



trap heat in the atmosphere and cause it to warm



change the Earth's climate and harm ecosystems



result in dangerous effects to human health and the environment

CARBON DIOXIDE (CO₂) IS THE MOST COMMON GREENHOUSE GAS, BUT THE F-GHGS USED TO PRODUCE LCD PANELS ARE THOUSANDS OF TIMES MORE POTENT THAN CO₂.

Key F-GHGs used in LCD panel manufacturing:

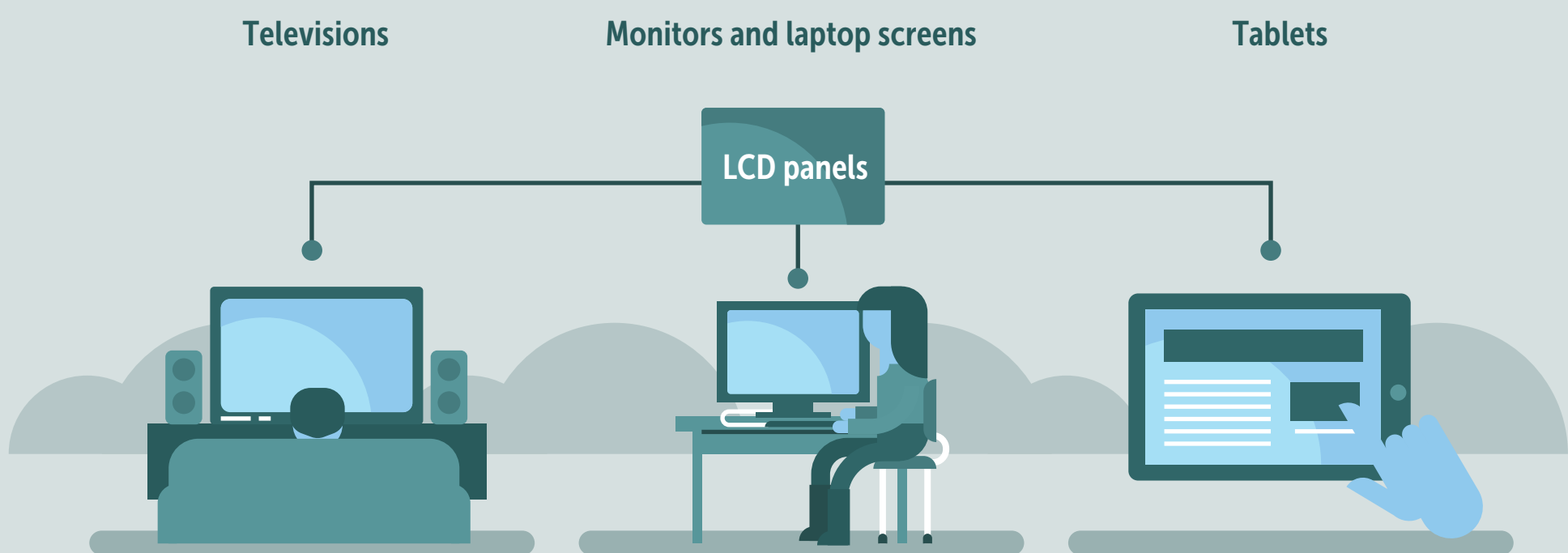
▶ SF₆ = **23,000 TIMES** MORE HEAT-TRAPPING THAN CO₂

▶ NF₃

▶ PFCs

▶ HFCs

F-GHG are released during the manufacturing process that produces flat panel displays- one of the first steps in assembling final products like:



F-GHG EMISSIONS ARE EXPECTED TO GROW

based on projected growth in consumer demand of LCD flat panel displays.

Currently emissions are expected to grow by



Over 2 MtCO₂e* in 2015 = to the emissions from approximately **280,000** homes' electricity use.



Over 7 MtCO₂e* in 2020 = to the emissions from approximately **1,000,000** homes' electricity use.



*Million metric tons of carbon dioxide equivalent

While some suppliers are working to reduce their F-GHG emissions, more needs to be done.

**BRANDS, RETAILERS AND LARGE PURCHASERS
HAVE THE POWER TO INFLUENCE REDUCTIONS
IN F-GHG EMISSIONS**

by ensuring their products are made with flat panels from suppliers who are curbing emissions.

See www.epa.gov/climateleadership/supplychain/sector.html to learn more.