HUMAN ACTIVITIES - that contribute to an increase in global temperature.

Transportation

Fossil fuels are used to power planes, cars, trucks, trains, and ships. Greenhouse gases are emitted when fossil fuel is burnt.

Cement

Cement is mixed with gravel, sand, and water to make concrete. Concrete is used in buildings such as schools and hospitals and to make roads. The chemical reaction used to create cement also creates a lot of carbon dioxide.

Industry

Factories that burn fossil fuels release areenhouse gases into the atmosphere.

Electricity Agriculture

Fossil

used to

create

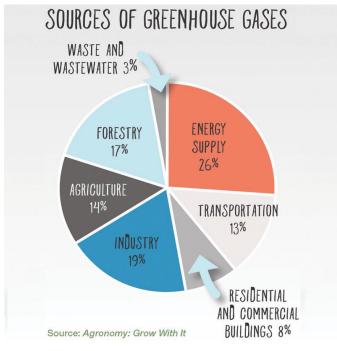
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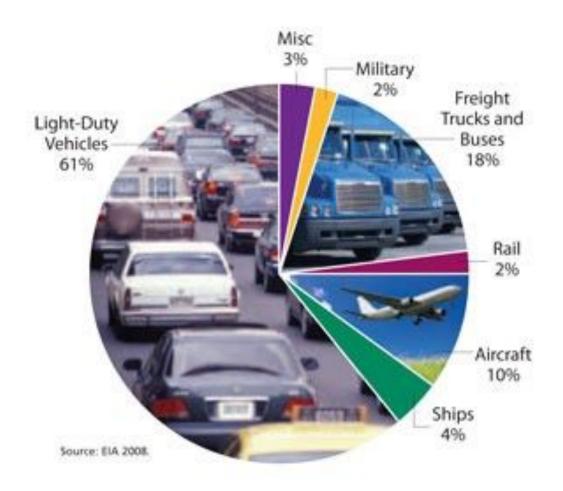
much of

Agriculture is an fuels are important industry that supplies us with food. Greenhouse gases are emitted from electricity. cows belching (methane) and from fertilizer (nitrous oxide).

Deforestation

When trees are cut down, there are less plants to absorb carbon dioxide for photosynthesis. More CO₂ stays in the atmosphere if there are less trees.





PUBLIC TRANSPORTATION'S ROLE IN RESPONDING TO CLIMATE CHANGE

PUBLIC TRANSPORTATION PRODUCES LOWER GREENHOUSE



AND METROS, PRODUCE 76% LESS IN GREENHOUSE GAS EMISSIONS, WHILE LIGHT RAIL SYSTEMS PRODUCE 62% LESS AND BUS TRANSIT PRODUCES 33% LESS.

THE MORE PASSENGERS THAT ARE RIDING A BUS OR TRAIN, THE LOWER THE EMISSIONS PASSENGER MILE.



THE NUMBER OF RIDERS GREATLY IMPACTS

CAR TRANSPORTATION ACCOUNTS FOR



BY FAR THE LARGEST SOURCE OF HOUSEHOLD EMISSIONS AND THE LARGEST TARGET FOR POTENTIAL REDUCTIONS.



POWER SOURCES AND VEHICLE EFFICIENCY ALSO IMPACT TRANSIT'S EMISSIONS.

GENFARE 78

NEW HYBRID-ELECTRIC BUSES CONSUME

15% TO 40%

LESS FUEL AND PRODUCE FEWER CARBON DIOXIDE EMISSIONS.

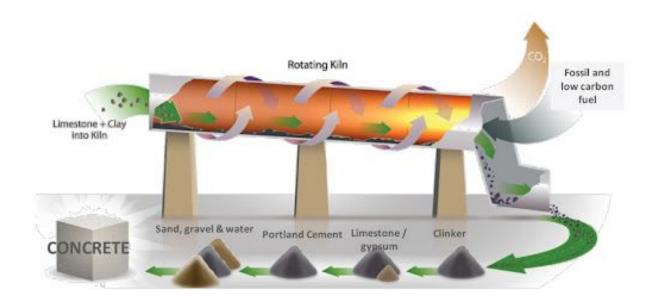
PUBLIC TRANSPORTATION REDUCES U.S. TRAVEL BY



A COMBINED LAND USE, TRANSIT, AND NON-MOTORIZED TRANSPORTATION STRATEGY BUNDLE COULD REDUCE U.S. TRANSPORTATION

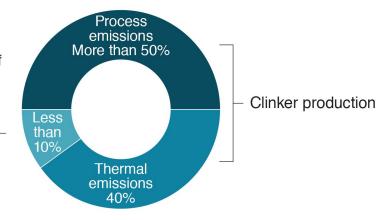


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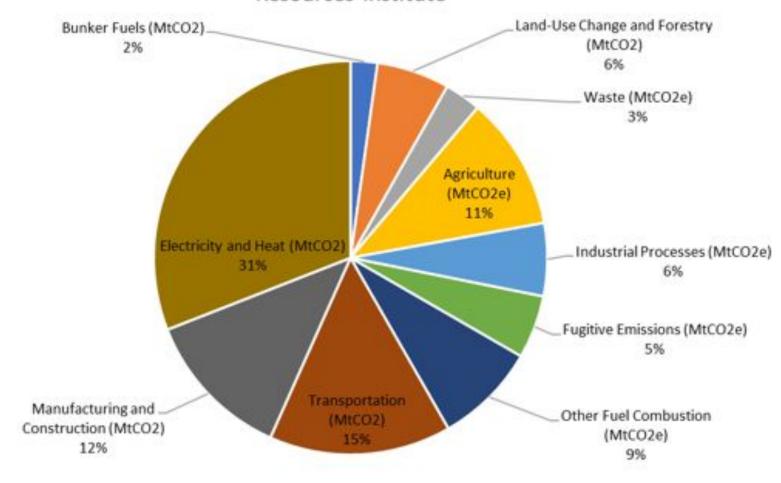
The production of "clinker" accounts for most of the CO2 emissions of cement production

- Quarrying & transport
- Grinding & preparation of raw materials
- Cooling, grinding, mixing



Source: Chatham House

Global Manmade Greenhouse Gas Emissions Estimates By Sector From The World Resources Institute



NATURAL PROCESSES – that contribute to an increase in global temperature.

Respiration

Animals, including people, release CO₂ when they breathe.

Volcanoes

Erupting volcanoes release greenhouse gases into the atmosphere.

Decomposition

Decaying organic material releases methane which is a greenhouse gas.

Solar Radiation Changes

The sun has stormy and quiet cycles. When the sun is most active, more solar radiation reaches Earth.

Temperature, CO₂, and Sunspots

