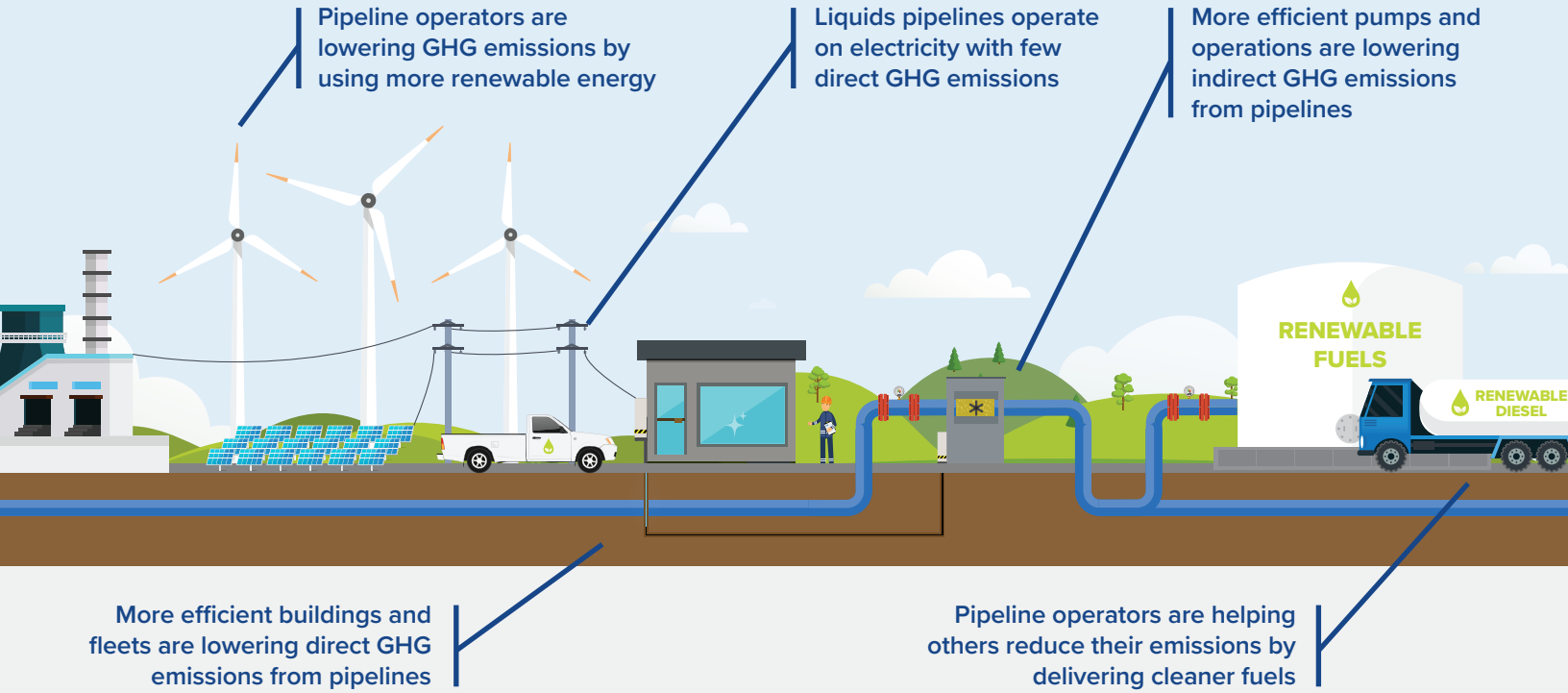
# SUSTAINABLE ENERGY DELIVERY

PIPELINE OPERATORS ARE LOWERING GHG EMISSIONS

## Pipeline operators are making their operations more sustainable by using less energy and emitting fewer greenhouse gases.

While liquids pipeline operations emit few greenhouse gases themselves directly, using renewable energy and operating more efficiently uses less energy and lowers emissions indirectly. We can also use pipelines to deliver cleaner fuels to help others reduce their greenhouse gas emissions.




### REDUCING DIRECT EMISSIONS

Liquids pipelines use electricity to power most of their pumps, thereby avoiding direct GHG emissions from transporting energy products, unlike trucks or trains. Liquids pipeline operators are reducing direct GHG emissions through building energy efficiency and fleet conversion programs.

### REDUCING INDIRECT EMISSIONS

Pipeline operators focus on operating efficiently, which reduces the indirect emissions attributable to the electricity they consume. Such efficiencies can be achieved by using drag reducing agents, variable speed pumps, and product delivery strategies, which all help pipelines use less energy and reduce indirect GHG emissions.

### REDUCING 3RD PARTY EMISSIONS

Energy products delivered by pipelines allow consumers to replace dirtier fuels with cleaner burning and lower GHG emitting energy. An example is pipelines delivering U.S. propane to ports for export to help rural households in Asia and Africa reduce their cooking GHG emissions 96% compared to wood or biomass.