

# Widespread adoption of climate-friendly practices can achieve net-zero emissions, as demonstrated in the graphic below.

The **EMISSIONS** bar on the left shows current total greenhouse gas emissions from agriculture, based on US EPA data. These emissions are largely (1) crop-related emissions, including fertilization and cultivation, (2) animal-related emissions, such as manure management and enteric fermentation from cattle, (3) energy use on farms and ranches, and (4) emissions from the conversion of land for agriculture.

The **REDUCTIONS** bars on the right show estimates of how much emissions can be reduced by adoption of climate-friendly practices on relevant applicable lands in the US. These estimates account for the fact that some practices have high impact but can only be applied on limited acreage, while others with modest impacts may be more widely applied. This *waterfall* chart starts the bar of the emission reduction from each additional practice at the bottom of the previous bar, thus showing how they add up and have a cumulative impact. As can be seen, using just these ten practices — and there are many others available to farmers and ranchers — the total reductions are larger than the current total emissions.

Of course, the real world is complicated, so the emission reductions possible from each practice can vary. The chart shows the average emissions with the largest central bar, and also shows alternative waterfall charts, assuming for each practice either the least or greatest possible per acre impact.

