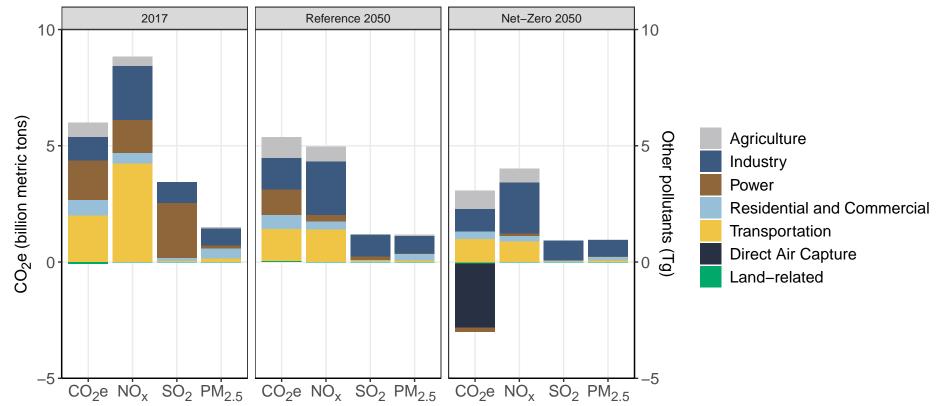
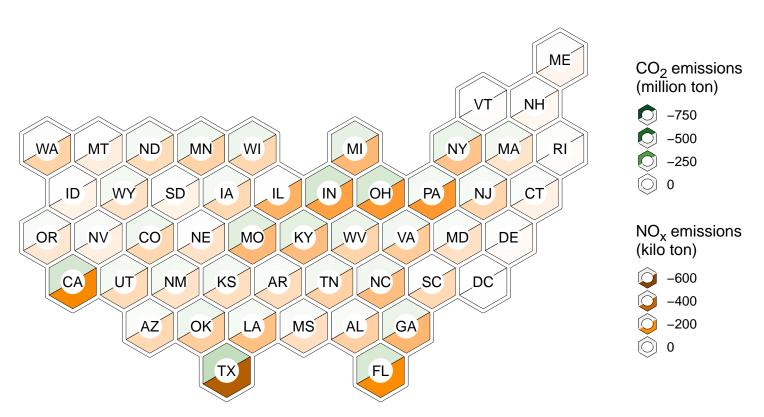
a) National total emissions by sector in 2017 and 2050



b) State-levelchanges in the energy system ${\rm CO_2}$ and ${\rm NO_X}$ emissions in Reference 2050 compared to 2017



c) State-levelchanges in the energy system ${\rm CO_2}$ and ${\rm NO_x}$ emissions in Net-Zero2050 compared to 2017

