It has been found that firing cattle feedlot biomass in the reburn stage of a coal fired power plant can reduce NOx emissions as much as eighty percent under certain conditions. The use of feedlot biomass also relieves the cattle industry of the waste, which can cause adverse effects on the environment.

Proposed work: To investigate the NOx reduction obtained through the reburn of low-ash feedlot biomass, low-ash partially composted feedlot biomass, and mixtures of biomass with Texas lignite coal. Texas lignite coal will be used as a base to determine the effectiveness of the biomass.