Fertilizer production

Fertilizer Inputs

Pesticide Inputs

Energy Inputs

Grain Sorghum Farming

Sweet Sorghum Farming

Forage Sorghum Farming

Transportation from farm to ethanol plants

Energy inputs

Enzyme and yeast production and inputs

Grain-based ethanol production

Sugar-based (and cellulosic) ethanol production

Cellulosic ethanol production

Feedstock Loss

Ethanol

Ethanol T&D

Vehicle end use

Displacement or allocation-based treatment

Co-products

Ethanol Co-products

CHP-based steam and biopower generation

Steam and electricity

RNG

Bagasse

Bagasse and lignin

Transportation from farm to ethanol plants

RNG