

## White Energy-Plainview Plant – CA-GREET Model

The applicant has conducted its analysis of direct effects on carbon intensity for this pathway using CA-GREET, v.1.8b (Dec. 2009) (See [http://www.arb.ca.gov/fuels/lcfs/ca\\_greet1.8b\\_dec09.xls](http://www.arb.ca.gov/fuels/lcfs/ca_greet1.8b_dec09.xls)). The standard inputs and parameters specified in CA-GREET remain unchanged except as noted in the input table below. The input table below specifies the spreadsheet location of the CA-GREET inputs and other parameters that were claimed as confidential business information or trade secret by the applicant, but it does not disclose the actual value of such inputs and parameters because they are claimed to be confidential business information or trade secret

White Energy, Plainview plant input data table (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

**User Inputs for CA-GREET White Energy Plainview  
Pathway: Dry Mill Sorghum Ethanol with Wet DGS**

Sheet Name	CA-GREET Model		Plainview Sorghum GREET Model		Description and/or Purpose
	Cell(s)	Corn Value	Cell(s)	Sorghum Value	
Ag_Inputs	B277:F301		L277:P301	Same Calculations as Corn	Summary of Energy Use and Emissions of Farming Machinery
Ag_Inputs	J91:J126		P91:P126	Same Calculations as Corn	Herbicides: Average for Crop Type
Ag_Inputs	S91:S126		Y91:Y126	Same Calculations as Corn	Insecticides: Average for Crop Type
EtOH	C137	Equation Based on Ethanol Yield	AF137	Modified Equation Based on Ethanol Yield	Method to Determine DGS CGM
Fuel_Prod_TS	AB263	0.68	EB263	15.11	Insecticide Use for Farming: grams/bushel
Fuel_Prod_TS	BP263	0	FH263	Assumed Same as Corn	CO2 Emissions from Landuse Change: Farming, grams/bushel
Fuel_Prod_TS	CN263	158	FP263	89.3	Grain Yield, bu/harvest acre
Fuel_Prod_TS	D263	12635	DD263	53553	Farming Energy Use: Btu/bushel of Grain
Fuel_Prod_TS	D277	2.72	CV277	Confidential Business Information	EtOH Yield of EtOH Plant: Dry Mill, gal/bushel
Fuel_Prod_TS	D291	85	AJ291	Confidential Business Information	Share of Dry Mill EtOH Production Between Dry and Wet EtOH Production
Fuel_Prod_TS	H263	420	DH263	406.1	N Fertilizer Use for Farming: N grams/bushel
Fuel_Prod_TS	H277	2.62	CZ277	N/A	EtOH Yield of EtOH Plant: Wet Mill, gal/bushel

Fuel_Prod_TS	H291	100	AA291	100	Share of Grain EtOH to Total EtOH Production
Fuel_Prod_TS	L263	149	DL263	102.7	P2O5 Fertilizer Use for Farming: P2O5 grams/bushel
Fuel_Prod_TS	L277	36000	DD277	Confidential Business Information	EtOH Plant Energy Use: Dry Mill, Btu/gal
Fuel_Prod_TS	P263	174	DP263	12.2	K2O Fertilizer Use for Farming: K2O grams/bushel
Fuel_Prod_TS	P277	45950	DH277	N/A	EtOH Plant Energy Use: Wet Mill, Btu/gal
Fuel_Prod_TS	T263	1202	DT263	0	CaCO3 Fertilizer Use for Farming: CaCO3 grams/bushel
Fuel_Prod_TS	T277	20	DL277	Assumed Same as Corn	Share of Coal in Total Process Fuels of Ethanol Plant: Dry Milling
Fuel_Prod_TS	X263	8.1	DX263	11.17	Herbicide Use for Farming: grams/bushel
Fuel_Prod_TS	X277	40	DP277	N/A	Share of Coal in Total Process Fuels of Ethanol Plant: Wet Milling
Inputs	B207	141.6	F207	Assumed Same as Corn	N content of above and below ground biomass
Inputs	B210	1.325	F210	Assumed Same as Corn	N2O emissions
Inputs	C185	100% Corn	I185	100% Sorghum	Share of Each Feedstock
Inputs	C247	10.2	C290	Confidential Business Information	Dry Mill Plant "Share of process fuels: Electricity"
Inputs	C255	100	C298	Confidential Business Information	Dry Mill Plant 'Energy use: Share: NG"

Inputs	C256	0	C299	0	Dry Mill Plant "Energy use: Coal"
Regional LT	C2	US Average	C2	Midwest	Use "Midwest" Electrical Mix
T&D Flowcharts	F1308	100% MHDT	F1526	100% MHDT	Grain Transport, Field to Stack, Mode
T&D Flowcharts	F1309	10	F1527	10	Grain Transport, Field to Stack, Distance
T&D Flowcharts	F1441	100% RAIL	F1441	100% RAIL	Ethanol Transport, Plant to Bulk Terminal, Mode
T&D Flowcharts	F1442	1400	F1442	1400	Ethanol Transport, Plant to Bulk Terminal, Distance
T&D Flowcharts	M1308	100% RAIL (Modified from Default)	M1530	100% MHDT	Grain Transport, Stack to Ethanol Plant, Mode
T&D Flowcharts	M1309	740 (Modified from Default)	M1531	40	Grain Transport, Stack to Ethanol Plant, Distance
T&D Flowcharts	M1440	100% HHDDT	M1440	100% HHDDT	Ethanol Transport, Bulk Terminal to Refueling Station, Mode
T&D Flowcharts	M1441	50	M1441	50	Ethanol Transport, Bulk Terminal to Refueling Station, Distance
Urban Shares	B68:H68	0	B80:H80	Assumed Same as Corn	Urban Shares of Transportation Mode Activities
Urban Shares	C152	0	I152	Assumed Same as Corn	Urban Shares of Ethanol Activities; Farming
Urban Shares	C154	0	O154	Assumed Same as Corn	Urban Shares of Ethanol Activities; Ethanol Production

