

**Brazilian Sugarcane By-Product Molasses-to-Ethanol
Raizen Energia S.A. – Costa Pinto Mill (COPI)
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). 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.

COPI Input data table (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

RAIZEN COSTA PINTO MILL
BY-PRODUCT SUGARCANE MOLASSES-TO-ETHANOL LCFS PATHWAY
CHANGES TO DEFAULT INPUT VARIABLES IN CA-GREET LIFECYCLE ANALYSIS MODEL
(Version 1.80b December 2009)
12/13/2013

WORKSHEET	ITEM	CELL	NEW VALUE
T&D Flowcharts	46	F1377	16
T&D Flowcharts	48	M1409	147
T&D Flowcharts	48	M1420	8492
T&D	1	AE7	34
Regional LT	-	C2	U.S. Average for Pathway Components Based Outside the U.S.
Regional LT	-	C2	CA-Marginal for Pathway Components Based in California
EtOH	1	H6	100%
EtOH	1.1	H19	Confidential Business Information
EtOH	1.1	H20	Confidential Business Information
EtOH	1.1	H21	Confidential Business Information
EtOH	1.1	H22	Confidential Business Information
Inputs	7.12	D307	Confidential Business Information
Fuel_Prod_TS	Ethanol Production	CQ271	Confidential Business Information