

# CA LCFS Scenario Simulator\_23Dec2024 Explainer: How to use the create “Custom” scenarios

**Background:** Besides the pre-defined scenarios, users can tweak the model by updating any of the variables. The highlighted fields can be edited by the user.

## Step 0: Set Scenario

Model: CarbonOutlook California LCFS extract- Hosted for clients  
version 20241212

About this model: This model is an extract of the Demand-Supply module of the CFS CarbonOutlook California LCF

Cells in **Blue** can be edited by user

Variable	User Inputs for Custom Scenario					
	2025	2026	2027	2028	2029	
Passenger ZEVs (100% by 2035)						
RD-100% by 2029						
40%						
25%						
-5%						
-1%						
MHDV goals by 2040						

ZEV Scenario for LDVs  
Blend of RD/ BD in Diesel Pool  
AJF in Intrastate Travel by 2030  
Additional Dairy RNG capacity by 2030 that goes to electricity  
Annual reduction of grid emission factor  
Reduction in Ethanol CI due to CCS being adopted  
ACT Scenario  
AAMs triggered

Can be edited by the user

## Step 1: Changing the “Variable” Column

To create a custom scenario based on user defined parameter, click on the drop-down button which appears on the right side of the cell (of the Variable column). For example, to have custom “Blend of RD/BD in Diesel Pool”, click on the existing scenario and select “Custom” as shown below.

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Variable	User Inputs for Custom Scenario	
	2025	2026
Passenger ZEVs (100% by 2035)		
RD-100% by 2029		
40%		
25%		
-5%		
-1%		
MHDV goals by 2040		

ZEV Scenario for LDVs  
Blend of RD/ BD in Diesel Pool  
AJF in Intrastate Travel by 2030  
Additional Dairy RNG capacity by 2030 that goes to electricity  
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ACT Scenario  
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version 20241212

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Variable	User Inputs for Custom Scenario		
	2025	2026	2027
Passenger ZEVs (100% by 2035)			
RD-100% by 2029			
RD-100% by 2027			
RD-100% by 2029			
RD-100% by 2035			
Custom			

ZEV Scenario for LDVs  
Blend of RD/ BD in Diesel Pool  
AJF in Intrastate Travel by 2030  
Additional Dairy RNG capacity by 2030 that goes to electricity  
Annual reduction of grid emission factor  
Reduction in Ethanol CI due to CCS being adopted  
ACT Scenario  
AAMs triggered

**Step 2:** After selecting “Custom” option from the “Variable” column, the user can now change the values year-wise (2025 onwards) for the variables “**Blend of RD/BD in Diesel Pool**”, “**ZEV Scenario for LDVs**”.

For example, the value for row “Blend of RD/BD in Diesel Pool” and column “2027” can be changed from “69.00%” to “75.00%” by double-clicking on the cell and entering the required value, as shown below. For variables without preset values, custom values can be entered column-wise.

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version 20241212				
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Variable	User Inputs for Custom Scenario	2025	2026	2027
ZEV Scenario for LDVs	Passenger ZEVs (100% by 2035)			
Blend of RD/ BD in Diesel Pool	Custom	65%	68%	69%
AJF in Intrastate Travel by 2030	40%			
Additional Dairy RNG capacity by 2030 that goes to electricity	25%			
Annual reduction of grid emission factor	-5%			
Reduction in Ethanol CI due to CCS being adopted	-1%			
ACT Scenario	MHDV goals by 2040			
AAMs triggered				

Double Click to enter the required value.

Make Sure the “Custom” option is selected in the corresponding row for which the custom value is entered.

For the variables “**Additional Dairy RNG capacity by 2030 that goes to electricity**”, “**Annual reduction of grid emission factor**” and “**Reduction in Ethanol CI due to CCS being adopted**”, the custom values can be entered in the yellow highlighted cells under the column “**User Inputs for Custom Scenario**”. These values **would not** have to be changed for each period/year.

Model: CarbonOutlook California LCFS extract- Hosted for clients		About this model: This model is an e		
version 20241212				
Cells in Blue can be edited by user				
Variable	User Inputs for Custom Scenario			
ZEV Scenario for LDVs	Passenger ZEVs (100% by 2035)			
Blend of RD/ BD in Diesel Pool	RD-100% by 2029			
AJF in Intrastate Travel by 2030	40%			
Additional Dairy RNG capacity by 2030 that goes to electricity	Custom	60%		
Annual reduction of grid emission factor	-5%			
Reduction in Ethanol CI due to CCS being adopted	-1%			
ACT Scenario	MHDV goals by 2040			
AAMs triggered				

Double Click to enter the required value.

Make Sure the “Custom” option is selected in the corresponding row for which the custom value is entered.

**Step 3:** User can enter customized values for every year, as shown in Step 2. Multiple custom scenarios can be created in a similar way- by selecting “Custom” in the “Variable” column for multiple rows and tweaking the corresponding yearly variables. For example, in the image below “Blend of RD/BD in Diesel Pool” and “ Additional Dairy RNG capacity by 2030 that goes to electricity” have been set to custom scenario.

Model: CarbonOutlook California LCFS extract- Hosted for clients About this model: This model is an extract of the Demand-Supply model  
 version 20241212

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Variable	User Inputs for Custom Scenario	2025	2026
ZEV Scenario for LDVs Passenger ZEVs (100% by 2035)			
Blend of RD/ BD in Diesel Pool Custom	RD Blend at the end of the year	65%	68%
AJF in Intrastate Travel by 2030 40%			
Additional Dairy RNG capacity by 2030 that goes to electricity Custom	Additional Dairy RNG	60%	
Annual reduction of grid emission factor -5%			
Reduction in Ethanol CI due to CCS being adopted -1%			
ACT Scenario MHDV goals by 2040			

AAMs triggered