


The Bottom Line

- This RVO proposal would eliminate all future investment in advanced biofuel production.
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Outlook for 2013:

Advanced Biofuel Production Exceeds Expectations Again

	<u>2013 Actual RINs**</u>	<u>2013 Target**</u>	<u>Surplus/Deficit**</u>
Advanced Biofuels (D3,D4,D5,D7):	3.536	2.75	+0.786 
Biomass-based diesel (D4):	3.060	1.28	+1.78
Biodiesel: 1.7 billion USG (x1.5)	2.550		
ABFA non ester and	0.510		
Renewable diesel: 300 mil USG (x1.7)			
'Other' Advanced biofuel (D5):	0.475	--	--
Brazilian sugar cane ethanol: 400 mil USG	0.400		
ABFA Naptha, Additives, etc.: 47 mil USG (x1.6)	0.075		
Cellulosic biofuel (D3/D7):	0.0016	0.006	-0.0044
Renewable gasoline: 1 mil USG(x 1.6)	0.0016		

CONCLUSION: The 3.75 billion gallon RIN target for 2014 will be exceeded with current production levels and carry over: 3.536 + 0.786 = 4.322 Advanced RINs next year.

**All Volume expressed in billions of RINs



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Annual RVOs & Nested RIN Use

RVO's and Nested D-Codes			Renewable Fuel Standard 2013	
Four Renewable Fuel Categories	Allowable D-Codes to Satisfy RVO Category	Renewable Volume Obligations	Billion Gallons	Std. %
Cellulosic Biofuels	3 and 7	RVO _{CB}	0.014	0.008
Biomass-Based-Diesel	4 and 7	RVO _{BBD}	1.28	1.12
Advanced Biofuels	3,4,5, and 7	RVO _{AB}	2.75	1.60
Total Renewable Fuel	3,4,5,6, and 7	RVO _{RF}	16.55	9.63
<i>Note No Explicit Volume of Ethanol</i>	<i>Ethanol D6</i>		~13.8	

The volume requirements in EISA are generally nested within one another, so that any fuel that satisfies the advanced biofuel requirement also satisfies that total renewable fuel requirement, and a fuel that meets either the cellulosic biofuel or the biomass-based diesel requirements also satisfies the advanced biofuel requirement. The nested nature of the four standards also means that in some cases we must allow the same RIN to be used to meet more than one standard in the same year. Thus, for instance, a RIN with a D-Code of 3 can be used to meet three of the four standards, while a RIN with a D-Code of 5 can be used to meet both the advanced biofuel and total renewable fuel Standards. However, a D-Code of 6 can only be used to meet the renewable fuel standard. Consistent with our proposal, we are continuing to prohibit the use of a single RIN for compliance purposes in more than one year or by more than one party. [Except as provided in paragraph (a)(3)(ii) a party may use the same RIN to demonstrate compliance with more than one RVO, so long as the RIN is valid for compliance with all RVOs to which it is applied.] [A Cellulosic Diesel RIN with a D-Code of 7 cannot be used to demonstrate compliance with both a Cellulosic Biofuel RVO and a Biomass-Based Diesel RVO.]



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RVO Energy Density and Equivalency

A RIN may have a value greater than 1.0 based on renewable biomass content & net volumetric energy content relative to ethanol

- Ethanol -1.0 (77,000 Btu/gal)
- Butanol -1.3
- Renewable Gasoline -1.4 – 1.5
- Biodiesel -1.5
- Non-Ester Renewable Diesel -1.7 (> 123,500 Btu/gal)

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