### 2017 RFS Rulemaking

- Similar to the 2014-2016 RFS rules:
- EPA should continue to exercise its waiver authorities and lower the statutory volumes
- Carryover RINs should not be considered when setting the standards
- EPA should set 2017 standards below the E10 blendwall
- Ethanol should not exceed 9.7% of the gasoline pool
- Limited E85, E15 demand; not solutions to the blendwall
- demonstrated actual production Feasible advanced standards; cellulosic should be based on
- EPA should not change the point of RFS obligation

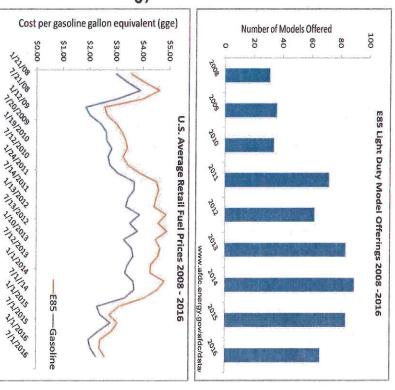
### EPA should set 2017 Standards Below the Blendwall

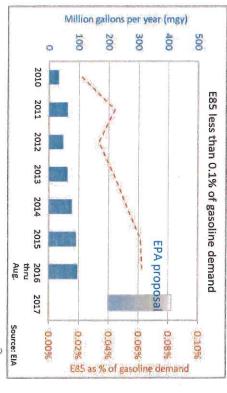
- EPA has clear authority to waive the statutory volumes
- Total ethanol volume should not exceed 9.7% of the gasoline pool
- Significant E0 demand, estimated by EIA<sup>1</sup> at 5.3 billion gallons or 3.8% of gasoline demand in 2015, 100 fold larger than the combined E85, E15
- EPA should use the same E0 methodology outlined in the May 2016 proposa memo<sup>1</sup> vs. EPA's low E0 estimate of 200 million gallons stated in the 2017

<sup>&</sup>lt;sup>1</sup>Today in Energy, Almost all U.S. Gasoline is Blended with 10% Ethanol, May 4, 2016.

### **Limited E85 Demand**

- Only  $\sim$  8% of fleet are Flex Fuel Vehicles (FFVs); automakers reducing number of FFV models
- with gasoline E85 has lower energy density, not in cost parity
- ot gasoline Range reduction means 4 tanks of E85 = 3 tanks
- According to fueleconomy.gov data: cost per mile using E85 increases ~9-14%
- Lack of consumer demand: E85 is less than0.1% of gasoline demand
- EPA's E85 estimate of 200 400 million gallons for 2017 is unrealistic





www.afdc.energy.gov/data/

# E15 is Not a Solution to the Blendwall

- consumers E15 potential liability and compatibility concerns = not desirable for
- Coordinating Research Council: E15 can cause engine and fuel system damage
- auto manufacturer owner's manuals use of E15 may void warranty E15 is suitable for fueling in  $\sim$ 15% of the current fleet (incl. FFV's) based on
- GAO: half of the retail infrastructure is incompatible with E15

Manufacturer								7	Model Year	ar						
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
BMW	No	No	No	No	No	No	S	No	No	S	E.	S	No	No		No
Chrysler	No	8	No	No	No.	N	N.	No.	81	No	8	Z.	W	No	8	Most
Ford	No	No	No	No	Nio	No	81	No	20	No	No.	No.	Yes	Yes	Yes	Yes
GM	5	81	51	8	51		81	8	81	3		Yes	Yes	Yes	Most <sup>4</sup>	Most <sup>4</sup>
Honda/Acura	No	No	Wo	No	No	No	N	No	No.	No.	8	No	8	Some1	Yes	Yes
Hyundai/Kia	No.	No	8	8	8	No.	8	8	<b>3</b>	<b>8</b>	31			20	Z o	8
Jaguar/Land Rover	51	No	8	No	No	8	8	No	3	N	8	No.	8	Yes	Yes	Yes
Mazda	8	2		8	51	8	81	8				51			81	
Mercedes	No.	No	No	NG	Mio	No	81	No.	8	8		6	No	Noz		2
Mitsubishi	5	8		8	5	No		No.	Wa			<b>31</b>	***		No	
Nissan/Infiniti		6	No.	8	8	6	No	Neg	6	8	61		8	8	61	E
Subaru	S		Z	81	5	8	8			S		5	6		N	21
Toyota/Lexus	8	E .	No	No.	No.	No	5	Wo	N	No	No	No	E	Some	Mosts	Most <sup>5</sup>
VW/Audi/Porsche	3		8			8	81	No	8			5	51	Yes	Yes	Yes
Volvo	No.	8	31	5		51	5)		1	9						2

Source: Edmunds.com and auto company statements. See Endnotes for specific model information

#### Carryover RINs should not be relied upon for setting annual standards

- EPA correctly recognizes that standards should not rely on carryover RINs
- Carryover RINs are needed to help ensure market liquidity and in the event of unforeseen circumstances
- Reliance on carryover RINs only provides a short term relief, compounding the blendwall problem in subsequent years

## Feasible Advanced Standards

- feedstock availability, renewable fuel production and blending infrastructure Advanced Renewable Fuel standards should be feasible, taking into account
- EPA proposed an 11% increase of the 2017 advanced standard vs. 2016 after a 25% increase in 2016
- DC Circuit Court of Appeals instructed EPA to "aim at accuracy"
- Cellulosic standard should be based on at least three months of actual production
- Production ramp-up projections for liquid cellulosic biofuels have not materialized
- Projections from cellulosic producers have consistently been wrong (e.g., Abengoa, Kior)
- Biomass Based Diesel volumes in 2018:
- EPA should not increase the BBD standard
- Reduces flexibility in meeting Advanced standard
- Stakeholders have raised concerns with feedstock availability and costs
- An increased biodiesel standard could be met with imports
- Volume should have been set by October 31

### **EPA Should Not Change the RFS Point** of Obligation

### Changing the point of obligation:

- Will not fix the blend wall problem or impact the overall volume of renewable fuels
- Will create additional uncertainty in the RFS Program and RIN market.
- Will complicate administration and function of the program.

### Doesn't impact the overall volume of renewable fuels Changing the RFS Point of Obligation:

- Will not fix the blend wall problem or impact the overall volume of renewable fuels
- Will not alleviate infrastructure constraints throughout the distribution system
- E15 and E85 will still face the current infrastructure hurdles including retail equipment compatibility
- The current structure does not prevent renewable infrastructure investments; EPA recognized that renewable producers are free to make such investments
- content fuels Will not increase the number of vehicles that are able to use higher ethanol
- E15 still faces the potential liability hurdle due to vehicle incompatibility
- E85 is still limited to use in Flex Fuel Vehicles
- Will not change consumer behavior
- E85 has faced the difficulty of consumer acceptance when discounted at a rate that corresponded to the mileage penalty, given consumers' past purchasing behavior
- It will only shift the compliance responsibility to a different group of RFS participants, and will not impact the overall volume of renewable fuels
- According to MIT and EPA studies, independent and merchant refiners are not parties, they recover RIN costs in the sale price of their products (see endnotes). competitively disadvantaged under the current system as they allege. Like other obligated

### Changing the RFS Point of Obligation: Creates Additional Uncertainty

- Will create additional uncertainty in the RFS Program and the RIN market
- Changing the point of obligation nine years into the RFS commercial agreements -- which were based on the current RFS program disrupts RFS compliance plans -- investments and
- Deemphasizes development of petroleum refinery pathways for drop-in fuels which utilize existing facilities and infrastructure
- e.g. renewable diesel
- Creates additional uncertainty about whether other critical components of the RFS program might be changed in the tuture
- Will create uncertainty even if EPA were only to request comments on making the change
- Could affect the RIN market, investment decisions throughout the supply chain, and investments in renewable fuels and infrastructure

### Changing the RFS Point of Obligation: Complicates Administration for EPA

## Will complicate administration and function of the program

- EPA has twice considered placing the obligation on the blender and has declined to do so, due in part to concerns regarding the increase in the number of obligated parties
- Will increase the number of obligated parties, adding complexity and cost for EPA to administer and enforce the program
- The identification of covered fuels becomes more difficult, which obligated party's RVO could result in under-compliance or over-compliance with an
- The RFS already includes provisions to facilitate compliance for all separate RINs, and a 20% limit on the quantity of carryover RINs obligated parties, including the ability for obligated parties to
- Greater number of points of compliance means greater opportunity for error and/or fraud

#### Moving the Point of RFS Obligation: Other Organizations Opposed to

- Marketer Groups:
- Society of Independent Gasoline Marketers of America (SIGMA)
- National Association of Convenience Stores (NACS)
- National Association of Truck Stop Operators (NATSO)
- **Biofuel Producers:**
- Advanced Biofuels Association (ABFA)
- Renewable Fuels Association (RFA)
- Growth Energy
- Renewable Energy Group (REG)
- Bulk Fuel Consumers:
- UPS
- Association of American Railroads

#### Endnotes

Slide 3 – E15 compatibility chart

<sup>1</sup>Accord, Civic, Crosstour, CR-V, CR-Z, Insight, Odyssey, Pilot; Acura: ILX, MDX, RDX,

RLX, but not TL, TSX, TSX Wagon

<sup>2</sup>Some owner manuals for 2014 and 2015 incorrectly stated that E15 was allowed. <sup>3</sup>Avalon, Camry, Corolla, Highlander, iQ, Prius, RAV-4, Scion tC, Sienna, Venza; Lexus: CT200H, ES350, GS300/350, GS450H, IS250, IS350, LS460, RX350, RX450H,

IS250C, IS350C, IS F, GX460, LX570 but not 4Runner, FJ Cruiser, Land Cruiser, Sequoia, Tacoma, Tundra, Yaris; Lexus:

4Not Chevrolet City Express

<sup>5</sup>Not FR-S, xB (model discontinued after 2015).

<sup>6</sup>Not Dodge Viper

Slide 8 - Per MIT: "... [A]n obligated party with a net RIN obligation, such as a merchant offsetting the explicit cost of purchasing RINs." refiner, is able to recoup their RIN costs on average through the prices they receive in balance sheet of the obligated party because there is no explicit revenue line item the wholesale market, although this mechanism would not be apparent on the