

Analysis of Renewable Identification Numbers (RINs) in the Renewable Fuel Standard (RFS)



The federal Renewable Fuel Standard (RFS) was established in the Energy Policy Act of 2005 (EPAct) and significantly expanded in the Energy Independence and Security Act of 2007 (EISA). The RFS requires the use of renewable biofuels in transportation fuel. For 2013, the RFS requires the use of 16.55 billion gallons of renewable fuel. Within the larger mandate, there are sub-mandates (carve-outs) for advanced biofuels (e.g., biomass-based diesel and cellulosic fuels). By 2022, the RFS requires the use of 36 billion gallons of renewable fuels, including 21 billion gallons of advanced biofuels. The RFS is a market-based compliance system in which obligated parties (generally refiners and/or terminal operators) must submit credits to cover their obligations. These credits Renewable Identification Numbers, or RINs are effectively commodities that can be bought or sold like other commodities. For each gallon of renewable fuel in the RFS program, one RIN is generated. Each RIN is a 38-digit number, with blocks of digits corresponding to various data, including the year the RIN was generated, the producer of the fuel, and the type of fuel. RINs are valid for use in the year they are generated and the following year. From the beginning of the RFS program, there have been concerns with RIN generation and the RIN market. As the RINs are essentially numbers in a computerized account, there have been errors and opportunities for fraud. Because of concerns over transposed digits, invalid characters, allegations of double-counting (intentional or unintentional) and other errors and inaccuracies, when EPA finalized rules for the RFS as expanded by EISA (the RFS2), EPA also established a new in-house trading system in an effort to address these concerns. All RIN transactions must be cleared through this in-house system, called the EPA Moderated Transaction System (EMTS).

From the beginning of the RFS2 EPA has maintained that all due diligence remains the duty of obligated parties. Under this buyer beware system those purchasing or receiving RINs must certify their validity on their own, and they are responsible for any fraudulent RINs they pass on to other buyers or submit to EPA for compliance. In late 2011 and early 2012, EPA issued Notices of Violations (NOVs) to three companies that the agency alleges fraudulently generated a combined 140 million biodiesel RINs in 2010 and 2011. Because of these RIN fraud cases, EPA is looking at establishing a system whereby RINs can be certified by third parties registered with EPA. EPA is considering whether such certification would provide obligated parties with an affirmative defense if RINs are later found to be fraudulent that is, obligated parties would not be liable for penalties under the Clean Air Act for the use of such RINs. Key questions include whether such an affirmative defense would also eliminate the requirement to purchase make-up RINs. EPA proposed a plan in January 2013, and projects that the rule will be finalized in October 2013. Most RINs are bought and sold through private contracts registered with the EMTS. However, there are also spot markets for RINs, and since the beginning of 2013, conventional ethanol RIN prices have risen dramatically. Prices rose from roughly \$0.07 per gallon in early January to over \$1.00 per gallon in early July. Various factors have been identified by stakeholders as potentially causing the price increase, including whether sufficient amounts of ethanol can be blended into gasoline to meet the 2013 RFS mandates and the extent to which non-obligated parties are speculating in RIN markets.

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Open resource [pdf] Nov 16, 2012 Analysis of Renewable Identification The federal Renewable Fuel Standard (RFS) was established in the Energy Policy Act of 2005 Renewable Identification Numbers, or RINs are effectively commodities that can be **(RIN) Analysis for Renewable Fuel Standard Program - US EPA** Nov 30, 2016 Latest Analysis Those renewable identification numbers have been increasing in value and Security Act of 2007 that created the Renewable Fuel Standard (RFS). While RINs had originally cost a few cents when biofuel **Renewable Fuel Standard (RFS): Overview and Issues** Mar 27, 2017 Under the Renewable Fuel Standard (RFS) program, EPA provides aggregated monthly data on Renewable Identification Number (RIN) transactions and renewable fuel standard category for a particular fuel based on lifecycle analysis. For more information on how D codes apply to RINs, as defined in **Obamas EPA Ups Renewable Fuel Mandate for 2017 - IER** A renewable fuel pathway includes three critical components: (1) feedstock, the type of Renewable Identification Number (RIN) (i.e., renewable fuel, advanced biofuel, EPAs lifecycle greenhouse gas analyses include evaluation of all of the process To be eligible for D-Code 7 RINs the fuel must be cellulosic diesel. **(RINs) in the Renewable Fuel Standard (RFS) - Issue Monitor** Nov 16, 2012 The federal Renewable Fuel Standard (RFS) was established in the Energy Renewable Identification Numbers, or RINs are effectively **The Renewable Fuel Standard (RFS): In Brief - Federation of** Apr 6, 2017 This report outlines the Renewable Fuel Standard (RFS) and the current Renewable Identification Numbers (RIN) system, discusses the current **Renewable Fuel Standard Program US EPA** Dec 14, 2016 Renewable Fuel Standard Statute, EPA Final and Proposed Volume Amounts . . Analysis of Renewable Identification Numbers (RINs) in the. **Analysis of renewable identification numbers (RINs) - ResearchGate** to renewable fuels operates through the market for. RFS compliance permits, which are called Renewable. Identification Numbers (RINs). The fundamental **Overview for Renewable Fuel Standard - United States** Apr 8, 2014 The federal Renewable Fuel Standard (RFS) was established in the Energy Renewable Identification Numbers, or RINs are effectively **Renewable Identification Numbers (RINs) and Renewable Fuel** Feb 4, 2016 Renewable Fuel Standard Statute, EPA Final and Proposed Volume Amounts . . Analysis of Renewable Identification Numbers (RINs) in the. **Public Data for the Renewable Fuel Standard Fuels Registration** The federal Renewable Fuel Standard (RFS) was established in the Energy Policy Act of 2005 (EPAct) and significantly expanded in the Energy Independence **Renewable Identification Number (RIN) Analysis for Renewable** In 2013 the price of renewable identification numbers (RINs) for renewable fuels generated under the Renewable Fuel Standard (RFS) program increased Jul 22, 2013 The federal Renewable Fuel Standard (RFS) was established in the Energy Renewable Identification Numbers, or RINs are effectively **Analysis of Renewable Identification Numbers (RINs) - UNT Digital** Aug 16, 2016 In 2013 the price of renewable identification numbers (RINs) for renewable fuels generated under the Renewable Fuel Standard (RFS) **(RINs) in the Renewable Fuel Standard (RFS) -** Mar 14, 2013 system based on renewable identification numbers (RINs) with credit verification and trading, special treatment of small . EPA Analysis of RFS Impacts . . . Table 1. EISA 2007 Expansion of the Renewable Fuel Standard . : **Analysis of Renewable Identification Numbers (RINs)** Oct 13, 2016 The federal Renewable Fuel Standard (RFS) was established in the Energy Policy Act of 2005 (EPAct) and significantly expanded in the **Renewable Identification Number - Wikipedia** Mar 20, 2017 Renewable Identification Numbers (RINs) under the Renewable Fuel Standard Program. On this page: RIN lifecycle Market participants RIN **Open abstract - Homeland Security Digital Library** **Analysis of Renewable Identification Numbers (RINs) - UNT Digital** May 22, 2017 Report that outlines the Renewable Fuel Standard (RFS) and the current Renewable Identification Numbers (RIN) system, discusses the **What is a Fuel Pathway? Renewable Fuel Standard Program US** Jan 19, 2017 Congress created the renewable fuel standard (RFS) program to reduce fuel annual standards Renewable identification numbers (RINs) **The Renewable Fuel Standard (RFS): In Brief - The National** For 2013, the RFS required the blending of 16.55 billion gallons of renewable fuel in transportation fuels, including at least 1.28 billion was 1.13%, and the cellulosic biofuel standard was 0.004%. **Renewable Fuels Producers Burned By ID Number Fraud - Law360** Renewable Identification Number (RIN) Data and RIN Analysis. This section provides basic information on Renewable Identification Numbers (RINs) data and **renewable identification numbers (rins) -** Fuel Standard. (RFS) mandating the blending of renewable fuelssuch as ethanolinto gasoline and diesel. These 38-character tracking numbers, sometimes called credits, are known as RINs **FUELS. STANDARD AND RINS TRADING** . Furthermore, an analysis conducted in 2013 by

Study Groups/Finance & **Renewable Identification Numbers (RINs) under the Renewable** Sep 7, 2016 Renewable Fuel Standard (RFS) regulations require renewable fuel producers renewable fuel exporters, Renewable Identification Number (RIN) fuel volume production (by fuel type and by month) Available RINs Fuel Pathways Other Requests Compliance RIN Data & Analysis Alternative Fuels. **(RINs) in the Renewable Fuel Standard (RFS) - Every CRS Report** A Renewable Identification Number (or RIN) is a serial number assigned to a batch of biofuel for the purpose of tracking its production, use, and trading as required by the United States Environmental Protection Agency's Renewable Fuel Standard (RFS) Analysis of Renewable Identification Numbers (RINs) in the Renewable Fuel **THE RENEWABLE FUEL STANDARD: A PATH FORWARD** Jun 7, 2017 The Renewable Fuel Standard (RFS) program was created under credits (called Renewable Identification Numbers, or RINs) to meet an **Renewable Identification Number (RIN) Data for Renewable Fuel** Apr 8, 2014 The Energy Policy Act of 2005 (EPAct, P.L. 109-58) established a renewable fuel standard (RFS), requiring the use of biofuels (such as **Analysis of Renewable Identification Numbers (RINs) - UNT Digital** Apr 8, 2014 Analysis of Renewable Identification The federal Renewable Fuel Standard (RFS) was established in the Energy Policy Act of 2005 Renewable Identification Numbers, or RINs are effectively commodities that can be **Analysis of Renewable Identification Numbers (RINs) in the** Aug 31, 2016 Renewable Identification Numbers (RINs) are credits generated when the Renewable Fuel Standard Program (RFS) a program begun in **The Renewable Fuel Standard is Hurting Consumers and U.S.** Oct 24, 2016 Renewable Fuels Producers Burned By ID Number Fraud Renewable Identification Numbers (RINs) under the Renewable Fuels Standard (RFS) program. The RFS program was originally enacted under the Energy Policy . UK and Insurance Law 360 UK provide breaking news and in-depth analysis on