



## Joint News Release

**BASF Media Contact:**

Pace Sagester  
Tel.: (984) 327-8410  
Email: Pace.Sagester@basf.com

**Arva Media Contact:**

Andréé Alamillo  
Tel.: (832) 812-4201  
Email: a.alamillo@arva.com

### **BASF and Arva announce strategic collaboration to deliver a pathway for farmers and biofuel producers to benefit from the 45Z biofuel tax credit**

RESEARCH TRIANGLE PARK, NC, May 26, 2026 – BASF and Arva today announced a strategic collaboration to help biofuel producers and farmers capture the full value of the Clean Fuel Production Credit (Section 45Z) once the implementing regulations are finalized. Together, the companies will connect biorefineries with verified low-carbon intensity (CI) grain<sup>1</sup> through both farmer-direct and commercial channels, rewarding farmers for their practices and giving biorefineries the data and documentation they need.

Through this collaboration, biorefineries can gain a dependable pipeline of low-CI bushels with audit-ready and verified documentation to support future 45Z claims, while farmers can potentially be recognized and compensated for the outcomes of the practices they're already putting on the ground – all without disrupting existing procurement relationships or grain flows.

“Approximately half of U.S. ethanol production relies on commercially sourced grain,”

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<sup>1</sup> Under the Section 45Z Clean Fuel Production Credit, “low-carbon intensity” grain is defined by its carbon intensity (CI) score — a metric that measures the greenhouse gas emissions per unit of energy (gCO<sub>2</sub>e/MJ) associated with producing, handling, and delivering the crop to the biorefineries.

said Jeff Carver, Commercial Manager for xarvio® BIOENERGY at BASF Agricultural Solutions. “Our collaboration with Arva creates a scalable solution for U.S. ethanol that, when combined with xarvio FIELD MANAGER, will help meet the industry’s need for low-CI grain as well as the farmer’s need to be recognized for growing it.”

This collaboration expands the capability of the [Circalo: Low Carbon Intensity Crops](#) program by BASF, allowing a biorefinery to help maximize its low-CI grain procurement through both farmer-direct and commercial channels. With xarvio FIELD MANAGER, agronomists can help their farmers maximize yield potential and lower carbon intensity while connecting their data to biorefineries using xarvio BIOENERGY for farmer-direct contracts. Commercial elevators that have their low-CI grain scored and verified through Arva’s CropForce™ platform will now also be able to connect to xarvio BIOENERGY, enabling a biorefinery to identify and verify its commercial procurement of low-CI grain.

“Biofuel producers need both verified field-level data and operational simplicity,” said Ryan Percy, Managing Director, Biofuels and Renewable Energy at Arva. “By integrating our growing network of commercial grain partners and our proven verification capability with BASF’s BIOENERGY platform, we can help plants recognize more low-CI bushels so farmers can have a clear way to be rewarded for their regenerative agricultural practices.”

In addition to optimizing low-CI feedstock for 45Z, the field-specific data reporting power of xarvio FIELD MANAGER and CropForce can help biorefineries meet current and potential future sustainability requirements for biofuels set by the [California Air Resources Board](#).

The collaboration between BASF and Arva will offer the following:

- **One seamless biorefinery experience:** A single system view of low-CI feedstock for biofuel facilities with xarvio BIOENERGY — eliminating fragmented steps between farmer-direct and commercial grain procurement channels. xarvio BIOENERGY can be the comprehensive low-CI feedstock tracking tool for a biorefinery with any mix of farmer direct and commercial grain sources.

- **Turnkey 45Z administration:** A unified workflow that adapts to a biorefinery's operation and works directly with accounting and compliance partners on feedstock submissions.
- **Verified and audit-ready feedstock CI scoring:** Through integration with xarvio FIELD MANAGER, Arva's CropForce platform enables the generation, verification and traceable management of 45Z-aligned feedstock CI scores, supported by third-party certification partners for defensible compliance.
- **Digital traceability from field to facility:** End-to-end traceability that prevents double-counting and maintains credit integrity across both farmer-direct and commercially purchased grain.

To learn more, visit [www.xarvio.com](http://www.xarvio.com).

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#### **About BASF's Agricultural Solutions division**

Everything we do, we do for the love of farming. Farming is fundamental to provide sufficient and affordable food for a rapidly growing population, while reducing environmental impacts. That's why we are working with partners and experts to integrate sustainability criteria into all business decisions. With €990 million in 2025, we invest in a strong R&D pipeline, and our solutions are purpose-designed for different crop systems. Connecting seeds and traits, crop protection products, digital tools and sustainability approaches, to help deliver the best possible outcomes for farmers, growers and stakeholders along the value chain. In 2025, our business generated sales of €9.6 billion. For more information, please [agriculture.basf.us](http://agriculture.basf.us) or our social media channels.

#### **About BASF**

BASF Corporation, headquartered in Florham Park, New Jersey, is the North American affiliate of BASF SE, Ludwigshafen, Germany. BASF has more than 15,600 employees in North America and had sales of \$18.1 billion in 2025. For more information about BASF's North American operations, visit [www.basf.com/us](http://www.basf.com/us).

At BASF, we create chemistry for a sustainable future. Our ambition: We want to be the preferred chemical company to enable our customers' green transformation. We combine economic success with environmental protection and social responsibility. Around 108,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our

portfolio comprises, as core businesses, the segments Chemicals, Materials, Industrial Solutions, and Nutrition & Care; our standalone businesses are bundled in the segments Surface Technologies and Agricultural Solutions. BASF generated sales of around €60 billion in 2025. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at [www.basf.com](http://www.basf.com).

### **About xarvio® Digital Farming Solutions – a brand by BASF Digital Farming GmbH**

xarvio® Digital Farming Solutions is at the forefront of the digital transformation of agriculture, optimizing crop production. Its innovative products, xarvio® FIELD MANAGER, xarvio® FIELD MANAGER for Fruits & Veggies, xarvio® FIELD MANAGER for AgBusiness, xarvio® BIOENERGY and xarvio® HEALTHY FIELDS use an advanced crop modelling platform to provide independent, timely and field-specific agronomic advice. xarvio's proven technology consistently delivers measurable benefits for farmers, helping them to produce crops more efficiently, sustainably, and profitably. More than 130,000 farmers and consultants worldwide have signed-up for xarvio® FIELD MANAGER, setting-up a field area greater than 20 million hectares. For more information, visit [www.xarvio.com](http://www.xarvio.com) or our social media channels

### **About Arva Intelligence (Arva)**

Arva is a data-driven agriculture technology company helping farmers, ethanol producers, and global brands scale regenerative agriculture with confidence. Through its CropForce™ platform, Arva combines advanced AI, field-level data, and agronomic expertise to quantify and verify outcomes from regenerative farming practices - supporting yield optimization, risk reduction, and participation in environmental markets. Arva enables farmers to be compensated for measurable sustainability outcomes while helping corporate and biofuels partners advance Scope 3 decarbonization goals and 45Z compliance initiatives through traceable, supplier-specific insights and audit-ready data. Founded by farmers and grounded in science, Arva has helped partners regenerate more than 4.4 million acres across nine countries while supporting healthier soils, reduced emissions, and more resilient agricultural ecosystems. Learn more at [www.arva.com](http://www.arva.com).