

AMINE MANAGEMENT Program

Gas treating solutions that
go beyond service

DOW



Amplify your facility's return: Adapting to the demands of your evolving business

The AMINE MANAGEMENT Program is a comprehensive service program targeting gas treating amine systems to achieve environmental compliance while improving reliability, reducing energy costs and preserving the integrity of assets.

This proactive approach to managing an amine system can enhance a facility's economics and performance by:

- Reducing energy use
- Increasing unit capacity
- Maximizing solvent life
- Reducing amine consumption
- Restoring operational reliability
- Reducing contaminants and corrosion

Dow will send a team of experienced technical service engineers who will:

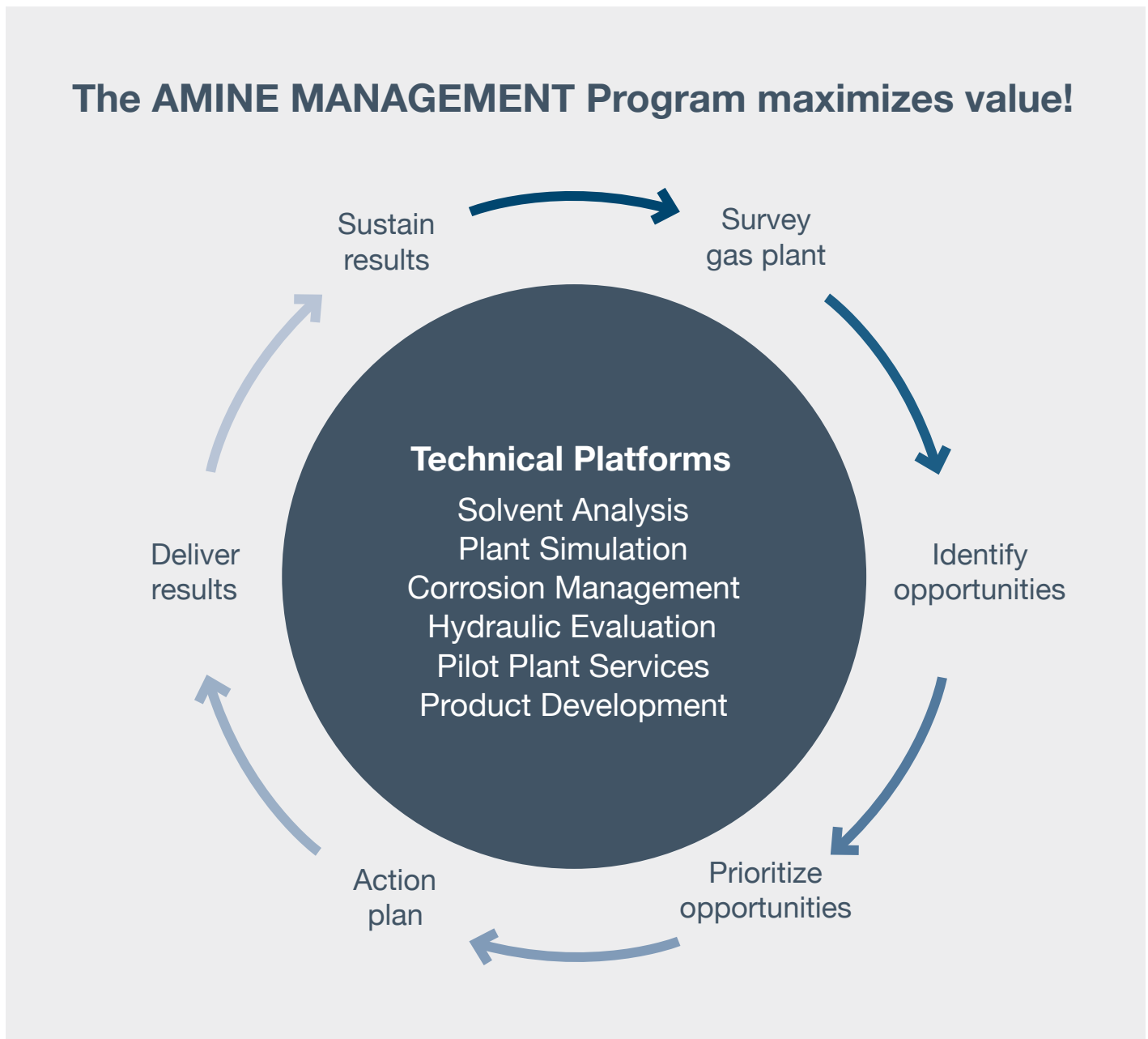
- Perform an initial survey of the amine system, including sample and data collection
- Run computer simulations using real data collected from the amine unit
- Customize a proposal to help optimize performance
- Supervise the implementation of the proposed solutions
- Provide training and start-up support
- Periodically visit the site to review process data and provide optimization recommendations
- Provide on-call support

In the face of changing environmental regulations and evolving market demands, gas processors deal with complex and growing challenges. For example, the heightened scrutiny of stationary emissions is directing additional attention to process optimization to reduce energy consumption. You can rely on Dow to help turn these challenges into profitable opportunities through solutions that can improve an operation's competitiveness, preserve its physical assets, reduce its carbon footprint, and reduce its operating costs.



How does the AMINE MANAGEMENT Program work?

Dow offers more than just products and services; we collaborate with customers to improve amine plant performance and help sustain performance gains over the long term. We work closely with a facility's operational team to help ensure that the gas treating facility is operating at optimal performance.



Advanced offerings that produce exceptional results

Dow combines in-depth industry knowledge, chemistry experience and advanced innovation capabilities with deep application expertise in solvents for superior acid gas removal and amine system operation. Our amine-related offerings also include:

- Dow engineers – utilizing a proprietary simulation tool backed by data collected from more than 1000 UCARSOL™ references worldwide – can assist in optimizing gas treating systems, providing great value to a facility
- A high-class analytical lab that performs thousands of customer analyses annually, while providing a remarkable turnaround time versus the industry average
- A diverse selection of UCARSOL™ Specialty Solvents that offers excellent performance, allowing for tailored contaminant removal and reduced energy consumption

UCARSOL™ Specialty Solvents can help meet operational objectives identified through AMINE MANAGEMENT Program. Solvents made 100% in the USA from Dow include:

- UCARSOL™ AP Solvents for numerous controlled and deep CO₂ removal applications from natural gas pipeline to syngas to LNG
- UCARSOL™ Hybrid Solvents to remove high levels of mercaptans to meet total sulfur specifications
- UCARSOL™ NH Solvents for CO₂ removal in Ammonia industry, offering significant operating cost benefits over solvents normally used in gas treating facilities overall performance
- UCARSOL™ DHM Neutralizer, specifically designed to safely and efficiently neutralize heat stable amine salts
- UCARSOL™ GT Antifoams provide specialized foam control in amine-solvent to improve overall performance



Addressing environmental concerns

The increased demand for energy worldwide is increasingly being fulfilled by natural gas, leading to a rise in gas processing capacity. At the same time, environmental regulations require gas processors to reduce emissions.

UCARSOL™ Specialty Solvents have become an industry standard for controlled CO₂ removal and cryogenic applications.

Dow will work with our customers to help their facilities meet stricter environmental regulations, while also helping operations run more efficiently – resulting in an environmentally compliant, cost-effective solution.

Advocating for better engineering

Our experienced technical team can also help with the engineering design of new and revamped facilities by:

- Providing a mass and energy balance as input to preliminary process engineering
- Incorporating a high-quality pilot plant that can be used to generate data to support preliminary design
- Recommending solutions to reduce capital and operational expenditures

Dow and you: Together, we've got good chemistry

Dow is committed to maximizing value for our customers by offering innovative, customized solutions tailored to the evolving needs of the oil and gas industry. Backed by proven resources, Dow offers advanced chemical innovation, intimate industry knowledge and exceptional service. For more information, visit: www.dow.com.

Dow has been at the forefront of gas treating technology for more than 75 years. From computer simulations to hands-on operations support and analytical evaluations, the Dow team is with you every step of the way to meet your everyday gas treating challenges.





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Form No. 812-00029-01-0923 S2D