

Angara announces DecarbonX - utilizes AI to fight global fouling problem and CO₂ emissions
Angara receives a TRL8+ rating in DNV Report for the DecarbonX program that promises to reduce carbon emissions by 1 Gt per year -or- approximately 2% of global CO₂ emissions

HOUSTON, Texas - March 7, 2022 - Angara, a technology company based in The Netherlands, is using the CERAWeek stage to announce its new AI-driven, smart formula program that solves an ongoing legacy problem with its innovative new technology.

Fouling has been an inevitable byproduct of the refining process for centuries. Once the negative effects of fouling were recognized, the only broadly accepted approach was mechanical cleaning. This resulted in extended downtime for the facility and the physical risks involved in the cleaning process itself. Worse, the impact of cleaning declines rapidly resulting in a significant loss of efficiency and a direct increase in CO₂ output.

Enter Angara's DecarbonX technology.

DecarbonX utilizes proprietary AI-based technology to determine the proper cleaning schedule; not quarterly or annually, but as often as required for maximum results. This coupled with Angara's exclusive smart formulas and innovative decarbonization technology contributes to the goal of reducing more than 1 Gigaton of CO₂ emissions and realizing \$50Bn in savings per year within petroleum refining, petrochemical, chemical, and other energy intensive industries globally.

Angara already has extensive trials and pilot programs underway which have not only proven highly successful, but over-delivered results for some of the largest players in the industry. These include TotalEnergies, LukOil, PTT Global Chemical, Hellenic Petroleum, Chevron, and Exxon Mobil.

Customers and partners globally have started to share their results and outcomes using DecarbonX; "Recently, Angara successfully completed a project at TotalEnergies' Zeeland refinery in the Netherlands, with significant results", according to Stephane Lehn, Head of Energy Efficiency for TotalEnergies.

Reinforcing Angara's resume of successful test cases is the just released DNV report which found conclusively the potential for the DecarbonX program to achieve predicted results. This is evidenced by DNV Report awarding Angara an extremely solid **8+ TRL** rating.

According to Angara's newly appointed CEO, Petra Koselka, "during this evolutionary time within the energy segment, we are finding that even the most conservative companies are understanding the importance of developing a forward-looking carbon abatement strategy". Petra added, "When you can demonstrate not just substantial CO₂ reduction, but also a revenue positive, non-CapEx result thanks to our program, there is going to be substantial interest".

About Angara:

Angara is a decarbonization focused technology company based in The Netherlands that helps clients across several energy intensive industries globally to substantially abate emissions and save costs through innovative cleaning of fouled heat exchangers and infrastructure. Angara's patented, smart chemical recipes and AI-powered smart schedule approach enables heat exchangers to run more efficiently, reduce fuel consumption, improve production yield, and save cost. Our technology offers a practical and commercially attractive solution to abate millions of tons of CO2 emissions. Our program is currently being deployed at scale with clients in Europe, Southeast Asia and the United States.

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