



**Apollo**



## Three decades of dual dosing

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Complete solutions that are applied throughout its value chain





## SITUATION

In the 1980s, environmental responsibility was just beginning to be a priority in industrial agencies. Against this background, in 1983, Apollo arrived to Mexico to market combustion additives. The main function of additives is to reduce the volume of toxic emissions generated by burning fuel oil. Also, applied in a dual dosage treatment, they improve thermal efficiency and prevent corrosion and fouling of equipment.

## SOLUTION

A throughout the existence of Apollo, these services have been provided in the facilities of CFE's thermoelectric plants and Pemex refineries. Thus, the dual dosing system has become one of the flagship solutions of our company.

Since 1989, Apollo has carried out its dual dosage treatment in the boilers of the Miguel Hidalgo Refinery. The modification of corrosive agents, due to the action of the treatment, has achieved that operational runs of up to 22 months are obtained.

In June 1994, the dual dosing program began at the Manzanillo Thermoelectric Plant. Thanks to the thermal efficiency gained and consequently the savings in fuel oil, the system has practically paid for itself.

Meanwhile, at the Guaymas Thermoelectric Power Plant, Sonora, the treatment has managed to reduce the emission of sulfur trioxide, a compound known for its harmfulness into the atmosphere.

The key points of the comprehensive treatments offered by Apollo Chemistry have helped customers save fuel and resources. In addition to this, it has allowed them to operate in compliance with current environmental legislation and even exceed the standards demanded by said regulations. Thanks to these advantages, the dual additive dosing treatments have been constantly renewed, remaining in force to this day.

For more details on this and other services designed to enhance your processes, contact the Apollo Chemistry specialists, who will gladly design a solution tailored to your needs.







# EXPERIENCE

**33 YEARS**

in the Miguel Hidalgo Refinery



**24 YEARS**

in the thermoelectric plant  
Manzanillo



**14 AÑOS**

in the thermoelectric plant Guaymas

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