

CES capabilities

Challenge	Renewable diesel	Diesel	Naphtha	Jet	LCO	HFO/resid.	Crude	Water	Lube oil	Gases	CES solution
Particulates											Filtration
Haze											Filtration/ALCHEMIA™
Color											Filtration/ALCHEMIA™
Sulfur removal in gases and light hydrocarbon											ALCHEMIA™/Contactors
Three phase separation											ALCHEMIA™/QX4
Oil/water separation											Separators/filtration/ALCHEMIA™/BIOKLENZ™
Oil clarification											ALCHEMIA™
Solids											Separators/filtration/floatation/ALCHEMIA™
Dissolved gases											Gas removal
TSS and turbidity											Filtration/ALCHEMIA™
Dissolved solids											Reverse osmosis or ion exchange

Other services	Challenge	CES solution
Aerial coolers (fin fans) cleaning	Fouling, clogged tubes/fins, corrosion, bent or crushed fins, uneven temperature distribution	ALCHEMIA™ foam cleaning
Low/high pH tank neutralization	Excessive heat generated, equipment compatibility, waste disposal	Tank/product neutralization
Tower/vessel/exchanger cleaning	Corrosion material buildup, decreased flow, uneven temperature distribution, VOCs, Pyrophorics	ALCHEMIA™ vessel cleaning
Cooling tower online cleaning	Reduced HT, high biocide treatment costs, high corrosion, reduced thruput	BIOKLENZ™
Tank bottoms/tank cleaning	Sludge build up, hydrocarbon recovery	ALCHEMIA™ sludge removal
CW exchanger/descaling	Fouling, HT loss	Acidification/passivation
Boiler/steam generator	Fouling, HT loss	Acidification/passivation

Our Baker Hughes CES (Contaminant Extraction Services) representatives can assist you in designing a custom solution that will serve your specific needs.

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