

ENVIRONMENTAL SUSTAINABILITY



2021

WE ARE USING RESOURCES MORE EFFICIENTLY

CHEMICAL CLEAN

- EASIER WASTE HANDLING
- MINIMIZE TRANSPORTATION TO CLEAN EQUIPMENT OFF-SITE
- REDUCES STEAM CONSUMPTION 75% VS. TRADITIONAL STEAM-OUT CLEANING
- ENABLE EQUIPMENT TO BE OPENED TO ATMOSPHERE, IN COMPLIANCE WITH RSR REGULATIONS

IMPROVED EFFLUENT MANAGEMENT

Can be treated and **REUSED** or discharged as **CLEAN WATER**

FULLY CONTAINED effluent system

- ELIMINATES VOC EMISSIONS to atmosphere and eliminates exposures to personnel

Total condensation systems enable FGFRU's to stay online during shutdown,

REDUCING FLARE EMISSIONS

ULTRASONICS

Higher degree of **CLEAN**

70% LESS water consumption than traditional hydroblasting

Allows for **REUSE** of equipment instead of requiring disposal

WE ARE DELIVERING INNOVATION IN KEY AREAS

GREENHOUSE GAS

Flareless TAs significantly **REDUCE EMISSIONS** during shutdown

Heat Exchanger Management **DECREASES GHG EMISSIONS** per barrel of crude throughput

PAPERLESS operations teams reduce carbon footprint

ENVIRONMENTAL JUSTICE

OUR CHEMISTRY IS:

NONTOXIC and BIODEGRADABLE

Can be **REPROCESSED** at refinery into **USEABLE FUEL**

TERPENES are from waste stream of aromatics industry

31 COMMUNITIES with watershed rehabilitated and protected

1,527,378 TREES planted / regenerated

1,937 FARMERS using water catchment techniques