



أرامكو السعودية
Saudi Aramco

Saudi Aramco Ras Tanura Refinery

Best Practice



30th JCCP International
Symposium Program

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Saudi Aramco Refinery System (MBD)

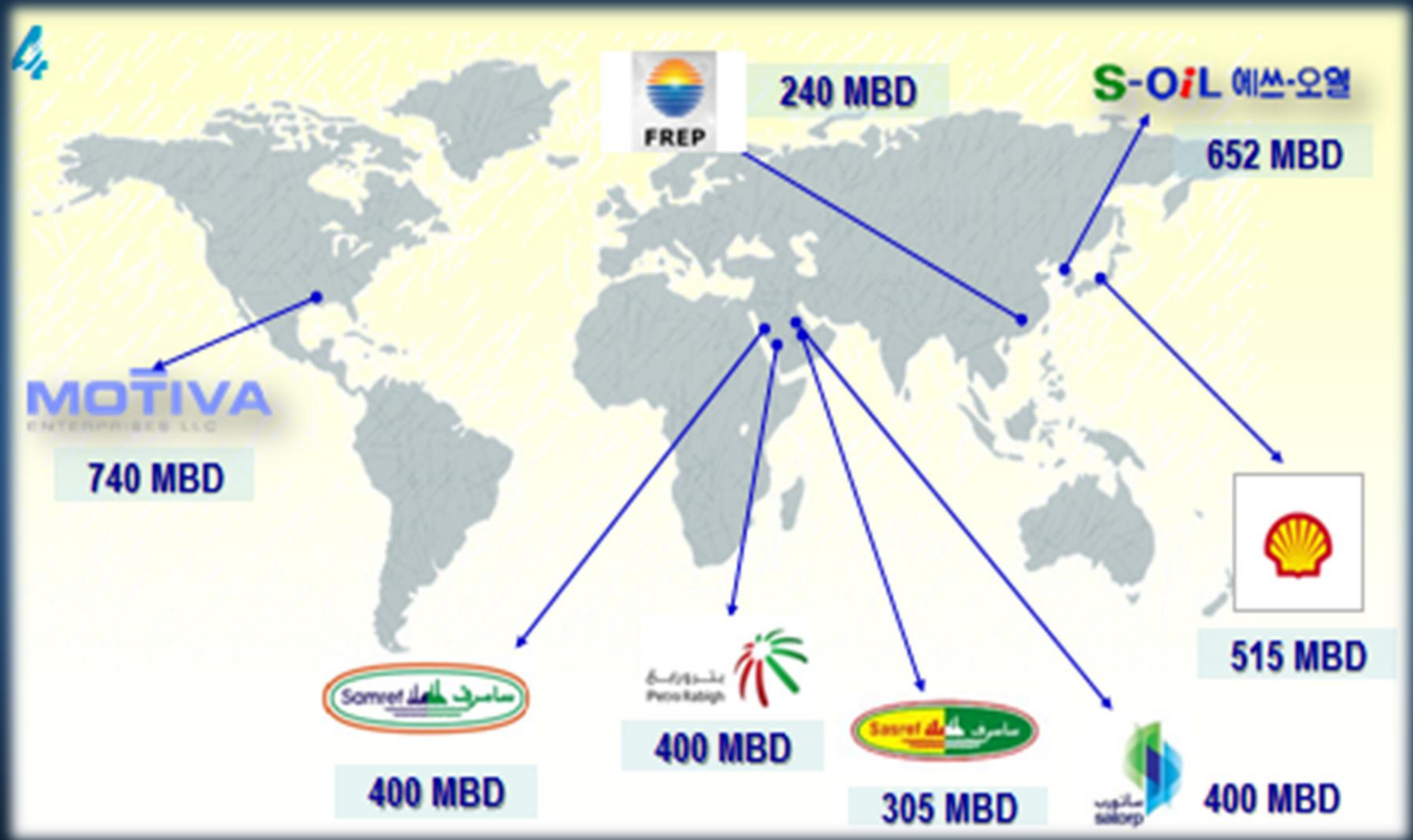


Refining

2011
2,260 MBD

2016
3,460 MBD

Saudi Aramco's International JVs

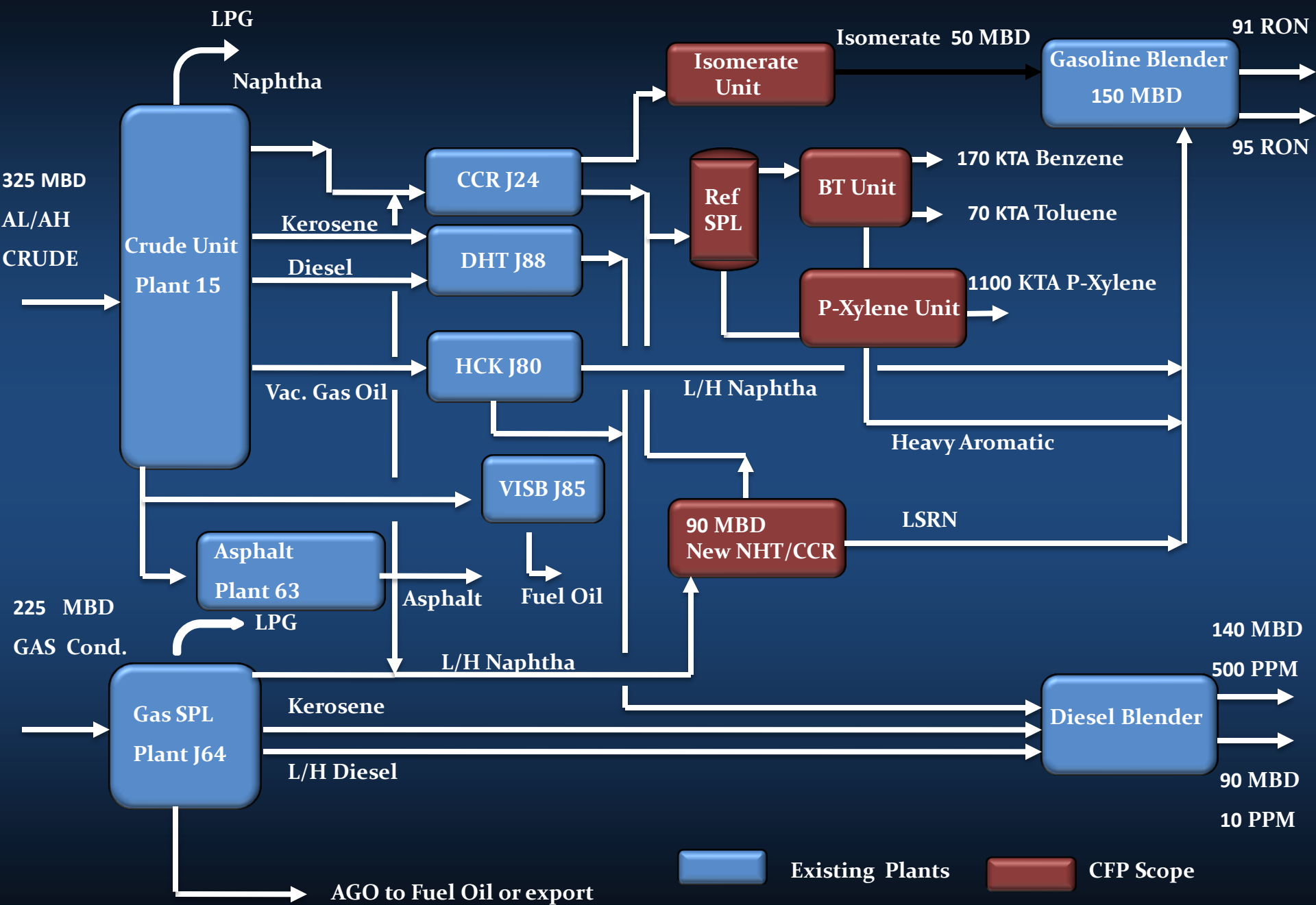


RTR Clean Fuel Project - Best Practice

The Kingdom required gasoline and diesel specifications by year 2015:

| | Max Sulfur, ppm wt | Max Benzene, Vol.% | Max Aromatic, Vol.% |
|-------------------------|-----------------------|-----------------------|------------------------|
| Gasoline (91/95 RON) | 1,000 → 10 | 3.0 → 1.0 | None → 35 |

| | Max Sulfur, ppm wt |
|--------------------------|-----------------------|
| Transportation Diesel | 500 → 10 |



Ras Tanura Refinery Role in Petrochemical

- Providing quality refined feed stocks
- Improving margins via synergies
- Sharing utilities, support services, assets, etc.

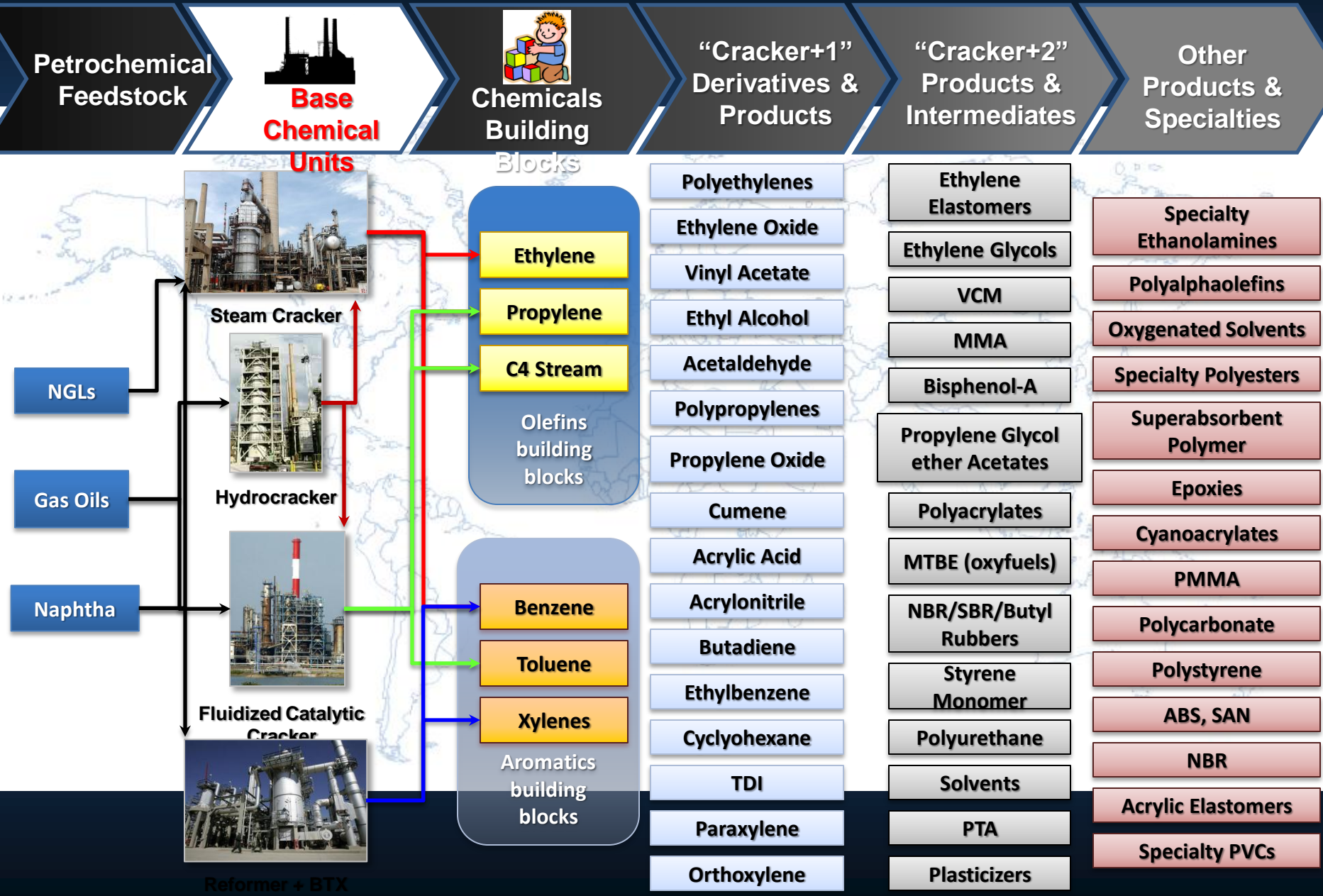


Ras Tanura Refinery Role in Petrochemical

- Saudi Aramco Dow Arabia (Sadara)



Ras Tanura Refinery Role in Petrochemical



Ras Tanura Refinery Role in Petrochemical

Insert Trays
(PE)

Inside Skin
(PE)

Outside Seal
(Elastomers)



Outdoor
(Epoxy
Coatings)

Insulation
(Polyurethane)



Anti-Freeze
(Propylene Glycol)



Paints
(Glycol Ether)



Wire & Cables
(PE, HP-LDPE)



**Specialty
Packaging**
(PE, HP-LDPE)



Detergents
(Amines)

Interior trim
(Elastomers)

Seating
(Polyurethane)

Upholstery
(Polyurethane,
PE)



Bumpers
(Elastomers)

Plastic Casings
(PE)



Water Filtration
(Solution PE, LDPE)

Conclusion:

Kingdom's Refining System

Clean Fuel Project – *Best Practice*

RT Refinery Role in Petrochemicals

Thank you!

ありがとうございます