

# An engineering company specialized in Oil & Gas Treatment

We process your energy

2015



**PROSERNAT**  
HEURTEY PETROCHEM • IFP Group Technologies

# PROSERNAT in the IFP Group

**PROSERNAT (M) Sdn Bhd**  
 (formerly known as KPN Gas  
 Technology Sdn Bhd)  
 Gas Treatment Engineering  
 Equipment Supplier  
 Refinery application



← 100 %

R&D / License ↑

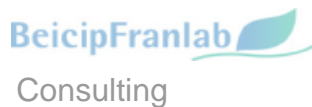
← 100 %



← 100 %



→ 36.1 %



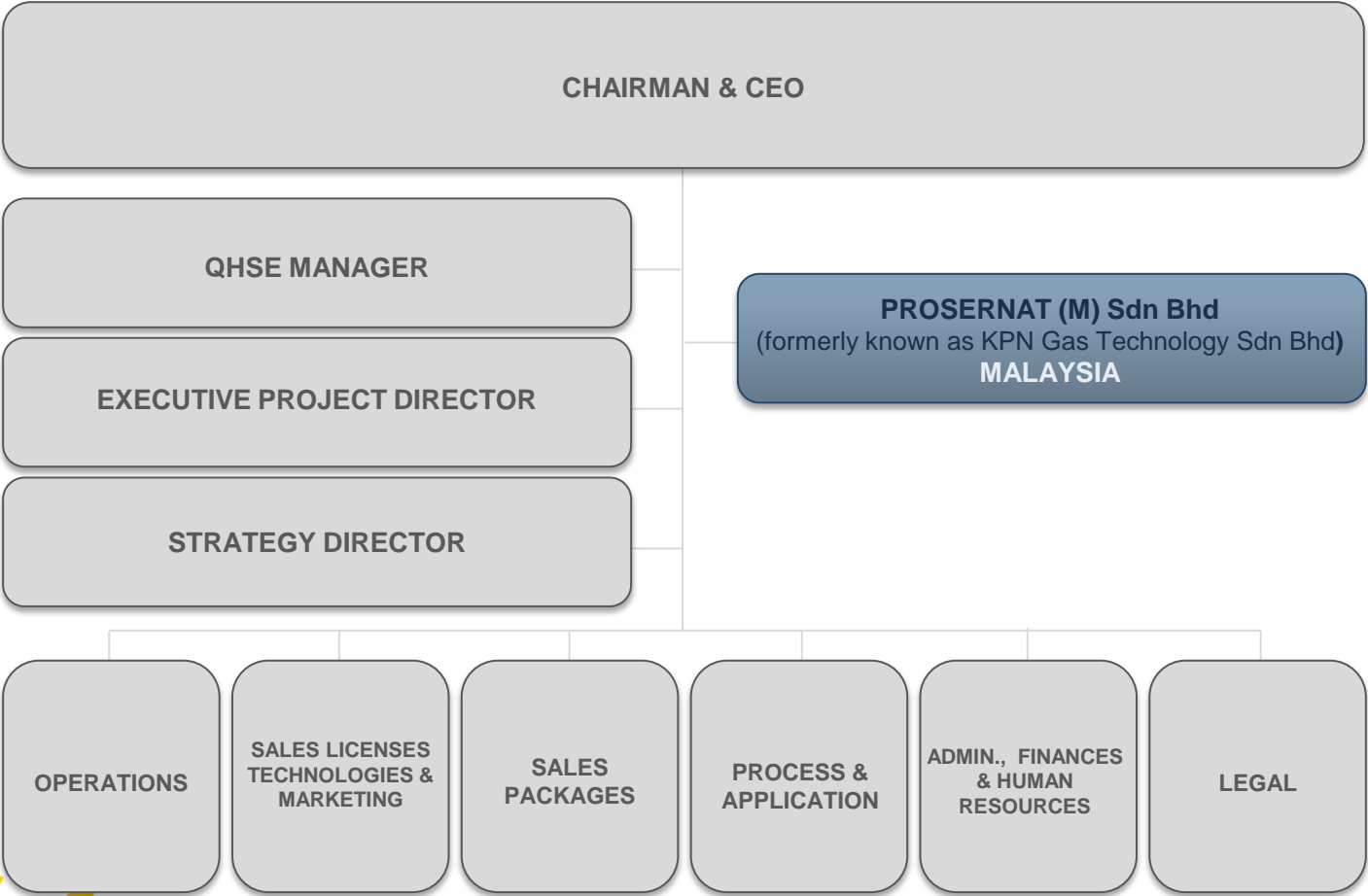
← 100 %

40 % ↓

100 % ↓



# Our Organization

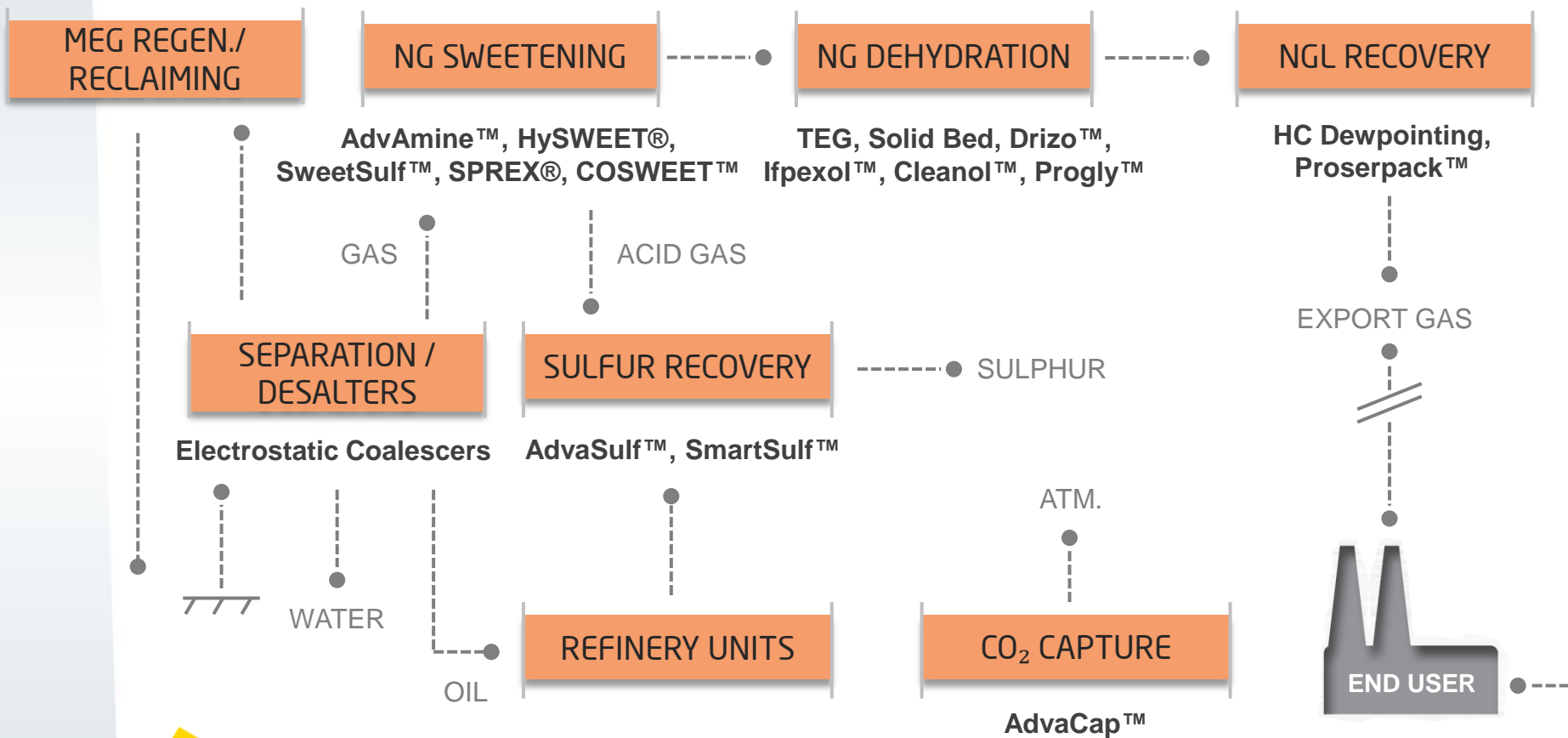


# International Network



- PROSERNAT
- HEURTEY PETROCHEM
- PROSERNAT's REPRESENTATION

# PROSERNAT's Fields of Expertise



# Our Clients

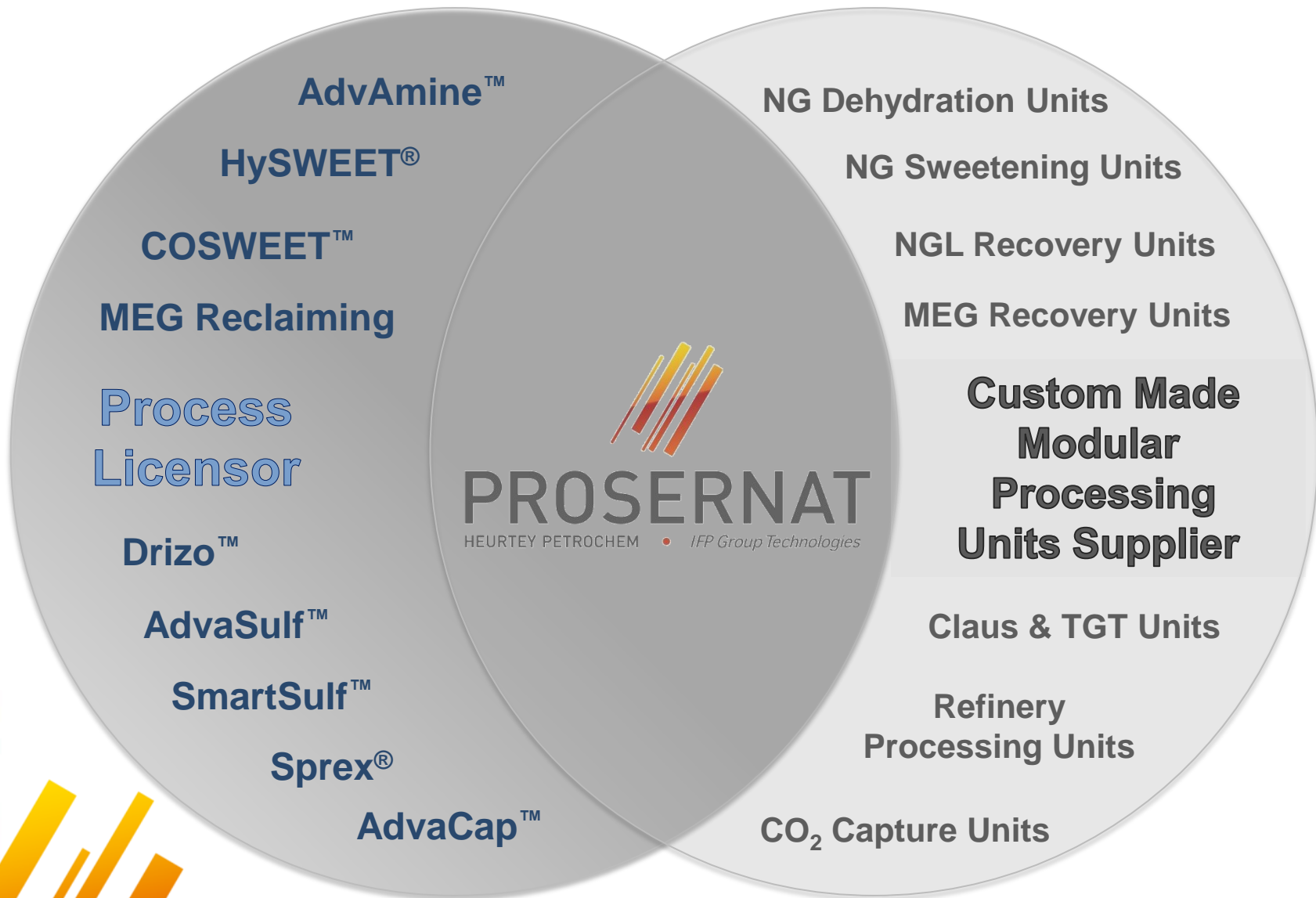


**OPERATING COMPANIES**

**EPC/EPCM CONTRACTORS**



# Who is PROSERNAT

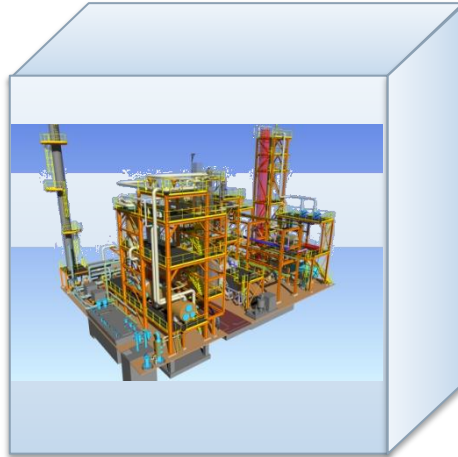


# What We Offer

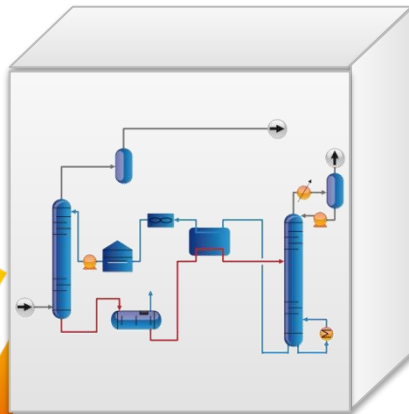
## Modular Units

### Engineering Services

**FEED** studies  
**Complete design**  
of gas treatment plants  
(basic + detailed  
engineering)  
**EPCM** services



Fully **guaranteed**  
**Custom** made Process -  
Equipment **Packages**



### Process Expertise & Licensing

Technology selection

Conceptual studies

Basic engineering

Assistance for **start-up**

**Troubleshooting / Debottlenecking studies**

# A Major Player in the Oil & Gas Business



Over **35 years** of industrial experience with more than **400 references** worldwide



Located in **Paris** La Défense and in **Malaysia**



A huge expertise in prefabricated **skids** or **modular units**



Since 2005, **45 licences** for NG sweetening & Sulfur recovery



In 2014, **220 people** and **200 M€** order intake

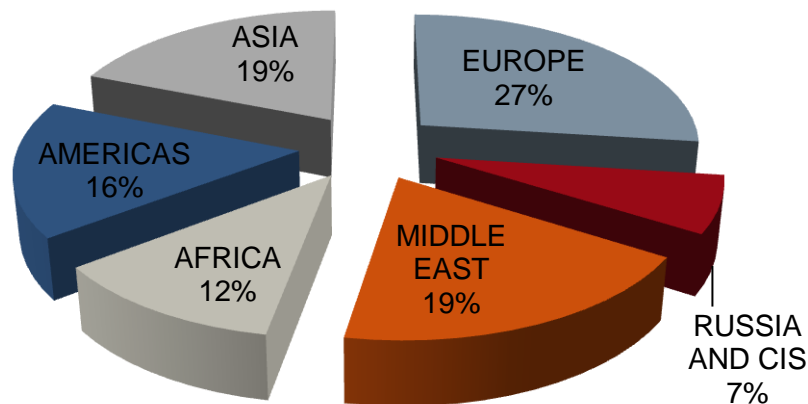
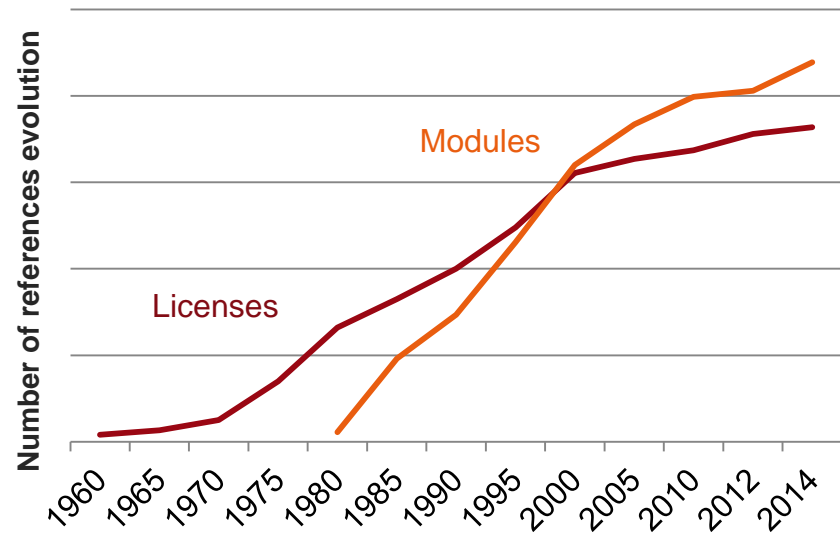


**Worldwide operations:** Middle East, Africa, Europe, Russia, Asia, and South America

# PROSERNAT's References

More than 400 modular references Worldwide

A LONG EXPERIENCE...



...ALL AROUND THE WORLD

# PROSERNAT Skid Manufacturing Experience Examples\*



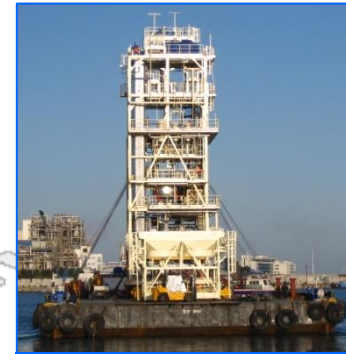
Polinter (Venezuela)



Filanovsky (Russia)



Campana (Argentina)



Umm Shaif (UAE)



Barrancabermeja (Colombia)



BS130 (Kuwait)



SOGT (Malaysia)



IGD Das (UAE)



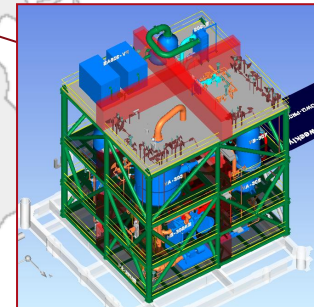
Sbaa (Algeria)



Olcesa (Spain)



Saqqara (Egypt)

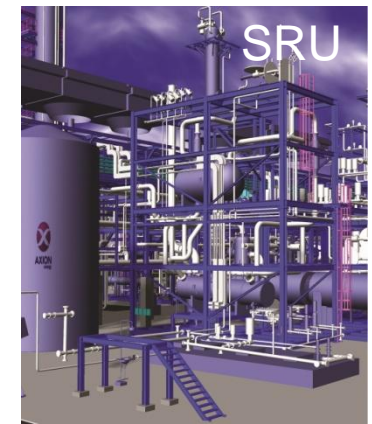
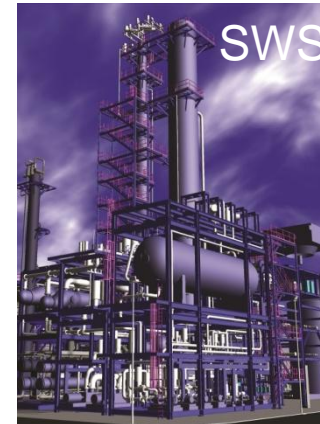
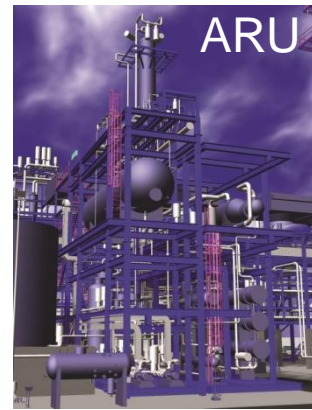


Jangkrik (Indonesia)

\*Highlighted on the map :  
manufacturing country

# Examples of Modular Units





## Campana Refinery, Argentina On going

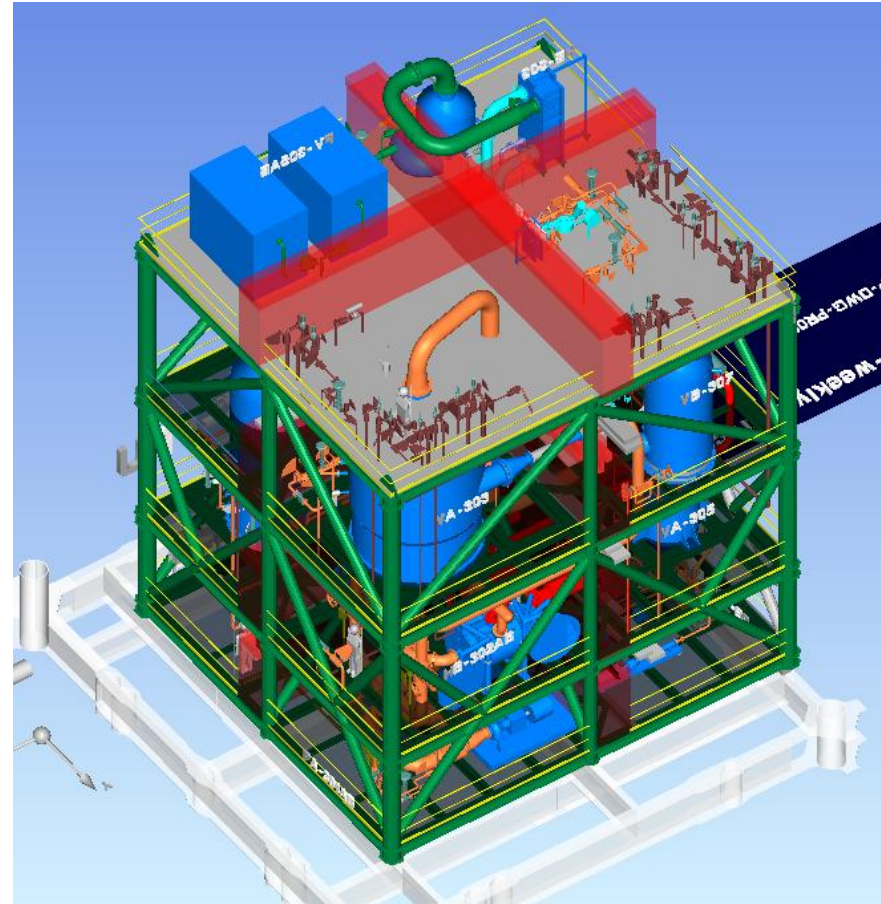
### Sulphur Recovery & Gas Sweetening

- Customer & End User : AXION Energy
- **PROSERNAT's scope** : Modular supply of Fuel Gas Treating Unit, Amine Regeneration Unit, double stage Sour Water Stripper Unit, Claus Unit, Tail Gas treatment Unit (amine based Sultimate™ process)
- Capacity : 30 T S/d
- Sulfur recovery : 99.9 %

# Jangkrik, Indonesia (Offshore) - On going

## MEG Reclamation

- Client : ENI
- **PROSERNAT's scope:** Full flow Reclaimer with back-end regeneration
- Rich MEG Feed: 11 m<sup>3</sup>/h @ 21 wt%
- Lean MEG Product – 2.5 m<sup>3</sup>/h @ 80 wt%
- Salt Removal/Method: 84 kg/h  
Salt Cake removed in big bags
- Produced Water Quality: <250 ppmw MEG
- MEG Recovery (as % of Feed):  
>99.5%

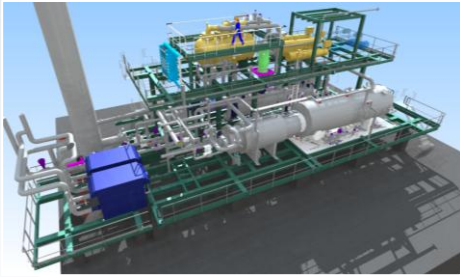




## Sbaa & Tidikelt, Algeria - 2014/2015

### Gas Dehydration

- Customer : SONATRACH
- Site : Sbaa & Tidikelt
- **PROSERNAT's scope:** TEG Dehydration + Flares, Fiscal metering & Utility packages - 2 trains
- Capacity : 600 MMSCFD / train



# Perm NefteGazPererabotka, Russia - 2014

## Sulphur Recovery

- Status : Engineering phase
- Transportation: Sea/River/Rail/Road
- Customer : Lukoil-Chernomorje
- End User : Lukoil-PermNefteGazPererabotka
- **PROSERNAT's scope** : Modular Claus Unit supply
  - Capacity : 10.5 T S/d
  - Sulfur recovery : 96 %



## Yeti-Purovsk, Russia - 2014

### Gas Dehydration

- Customer : Heurtey Russia
- End User : GazpromNeft
- **PROSERNAT's scope** : 1 contactor and 1 TEG dehydration unit
- Capacity : 155 000 Nm<sup>3</sup>/h and 7 m<sup>3</sup>/h



# Filanovsky, Russia - 2014

## GDU & Compression

- Status : Delivery
- Customer : StarStroi
- End User : Lukoil – Filanovsky Central Processing Platform
- Balance of plant for 5 compression trains : 2 LP + 3 HP

- **PROSERNAT's SCOPE :**

- 3 TEG packages with regeneration & 1 Fuel gas package
- Balance of plant for 5 compression trains including F&G detection, deluge, MCC
- Delivery FCA of Skids, pre-fabricated parts - mix packages and loose



24 Modules: 18 x 3.4 x 3.5m, 30t maxi



## Kharyaga Field, Russia - 2013

### Gas Sweetening & Sulphur Recovery

- Status : Delivered
- Customer : Globalstroy-Engineering
- End User : TOTAL EP Russia
- **PROSERNAT's scope** : Modular Amine and Claus Units for associated gas, revamp of existing GDU
- Amine Capacity :  $0,7 \times 10^6 \text{m}^3 / \text{d}$
- Claus Unit Capacity: 16 T S/d





## Das Island, UAE - 2012

### Gas Dehydration

- Status : In operation
- Customer : HHI
- End User : ADGAS
  - PROSERNAT's scope : 3 TEG Units
  - Capacity : 3 x 300 MMSCFD



Skid Assembly



Skid Transportation



Skid at site

## SOGT, Malaysia - 2012

### Dehydration & Regeneration

- Status : Delivered
- Customer : Petronas / Samsung
- End User : Petronas / Samsung
- **PROSERNAT'S scope:** 1 stage Dehydrator (82 500 BPD) + 2 x Drizo™ Contactors (2x850 MMSCFD) + Regeneration Packages
- Glycol Flowrate : 17.4 m<sup>3</sup>/h
- Weight : 142 tons



# Reficar, Colombia - 2011

## Desalting

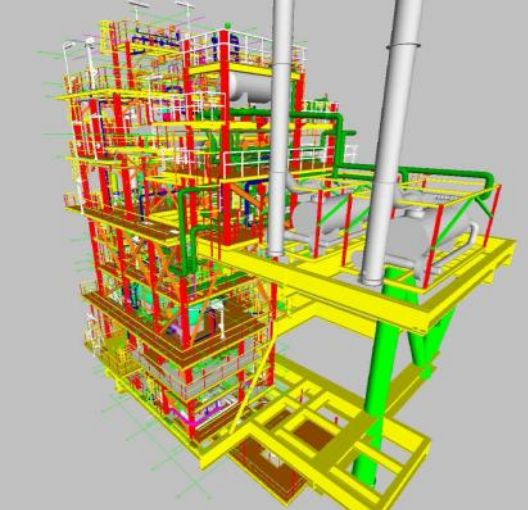
- Status : Delivered
- Customer : CBI / REFICAR
- End User : REFICAR
  - **PROSERNAT's scope** : 2 x 150 000 BBD Desalting packages



## Rhourde Nous, Algeria - 2011

### Gas Dehydration

- Status : Delivered
- Customer : SNC LAVALIN
- End User : SONATRACH
- **PROSERNAT's scope** : TEG Unit - CO<sub>2</sub> Dehydration
  - Capacity : 20 MMSCFD
  - Total Weight: 26 Tons



Design



Shipping to HHI's yard



Module insertion in the Platform

## Umm Shaif, UAE - 2010

### Gas Sweetening

- Status : In operation
- Customer : HHI / ADMA OPCO
- **PROSERNAT'S scope** : Conception, engineering, procurement of an offshore fuel gas sweetening unit (AdvAmine™, **MDEAmax**)
  - Capacity : 26 MMSCFD
  - Performance : H<sub>2</sub>S less than 20 ppm



Protect  
We Process Your Energy

## More than a Company, A real Tribe

At PROSERNAT, our strength is people. Our HSE policy is implemented to protect the Energy they deploy. This solidarity is key to maintain the deep human dimension of our Company.

- No work accident these last 4 years
- Paper, Toner, Battery and Bulb recycling
- Employees Public Transportation cost 100% reimbursed
- Ecofriendly Technologies Development
- Voluntary Departures under 5%



# Contact us

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