





Wison Engineering (02236.HK)

**Leading Provider of EPC Services
and Integrated Technology
Solutions for the Energy
and Chemical Industries**



Mission & Vision



MISSION

Better Technology
Better Future

VISION

Leading Eco-friendly Service Provider

VALUES

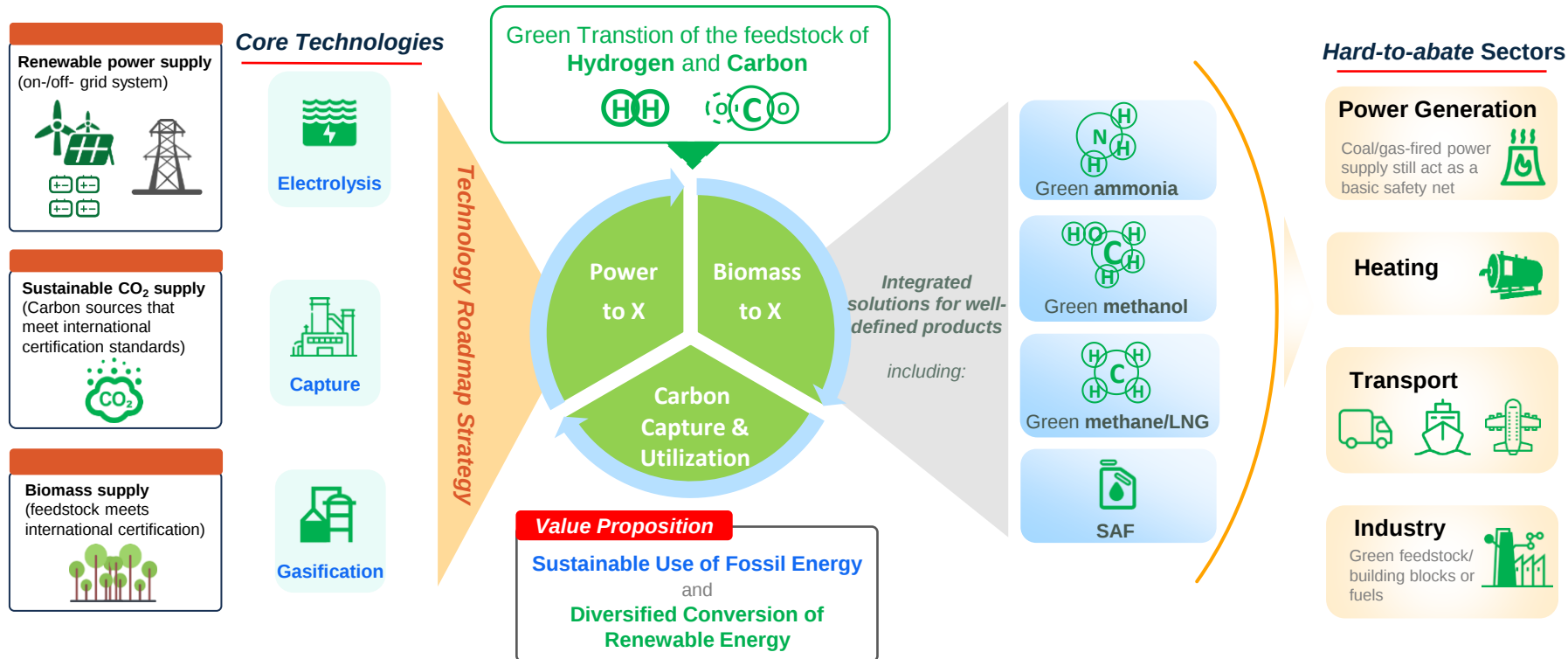
Integrity
Respect

Innovation
Win-Win

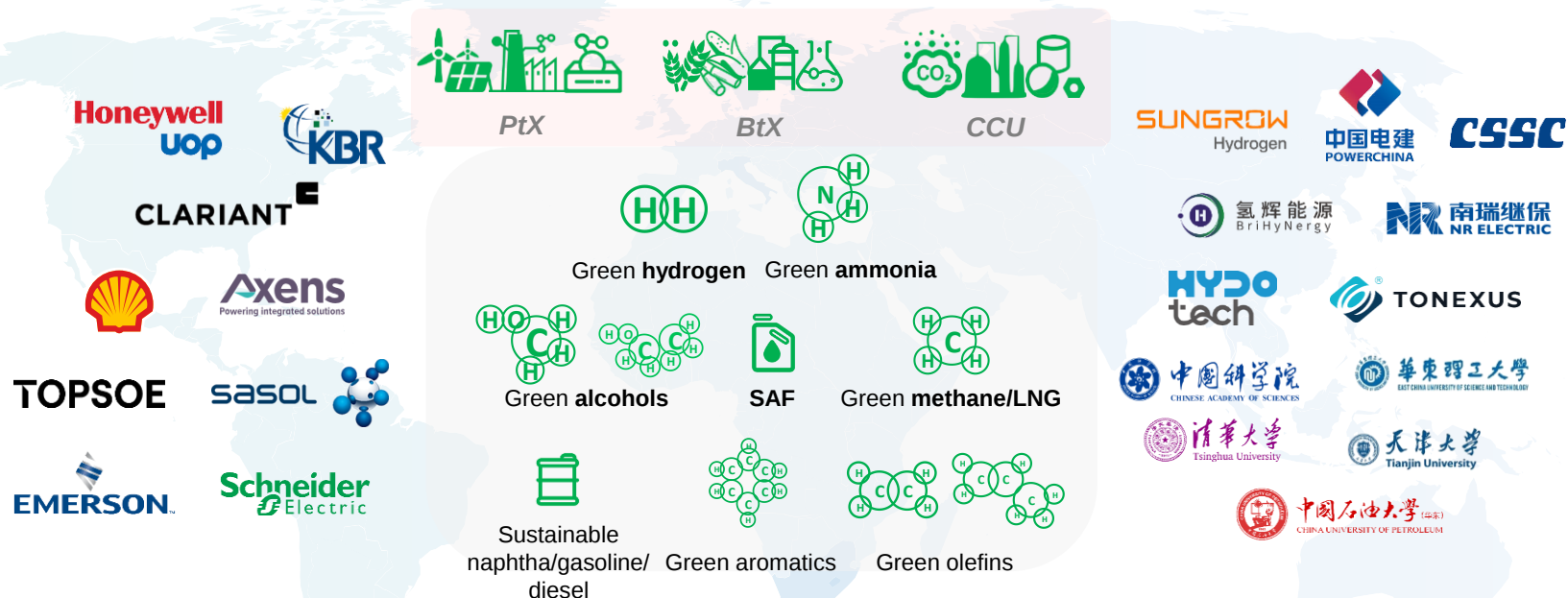
Responsibility
Entrepreneurship

Renewable Energy Business

WEL's Value Proposition for Deep Decarbonization of Hard-to-abate Sectors



Leveraging Partnerships for Innovation



*We provide leading integrated solutions covering green hydrogen, fuels and chemicals together with global top-notch partners...
...and we continue expanding and strengthening the collaboration ecosystem!*

Note: We list representative collaborators specialized in the field of green H₂, fuels and chemicals, and the list is in no particular order.

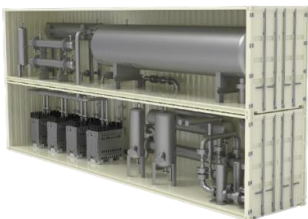
Product Line Layout - Green Hydrogen



Container-type/Modular-grade/Plant-wide Turnkey Solutions from Hydrogen Production to Utilities and Auxiliary Systems

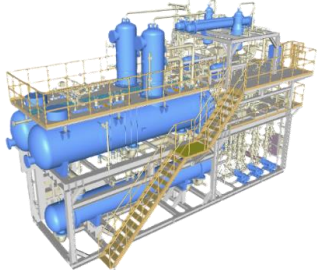
Container-type

Solutions of *megawatt* scale



Modular-grade

Solutions of *tens of megawatt* scale



MegaFlex

Plant-as-a-Product

Solutions from *hundreds of megawatt* to *gigawatt* scale



□ Lower LCOH

- Intelligent Simulation & Planning
- Highly Modularized
- High-quality & Cost-effective Supply Chain
- Advanced Equipment

□ Flexible Scalability, Rapid Delivery

- Rapidly deployable
- Scalable
- Shorten On-site Construction Duration
- Minimize Uncertainties

□ Safe & Reliable

- Extensive Engineering Experience
- Proven Technology
- Intelligent Control Systems
- Lifecycle Services

□ Environmental Friendliness

- Minimized Footprint and Ecological Disruption
- Compatible with Green Electricity

Home-brewed Renewable Energy Intellgent Programming System



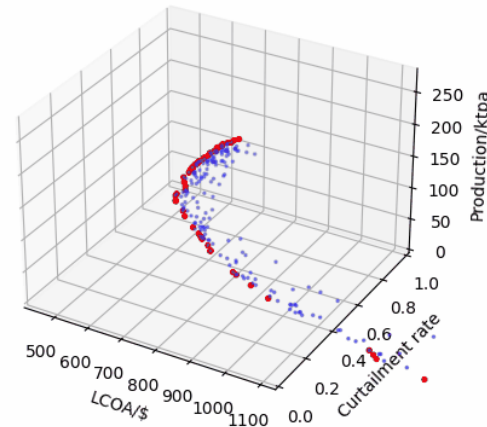
- **Cut costs & boost efficiency** by proprietary algorithms in integrated power – hydrogen – ammonia / methanol systems
- **Develop operation strategies for fluctuating conditions** by using hourly simulations

ReIPS

Wison's Proprietary Intelligent Planning and Simulation Platform



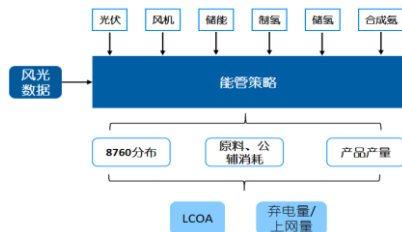
iteration: 1



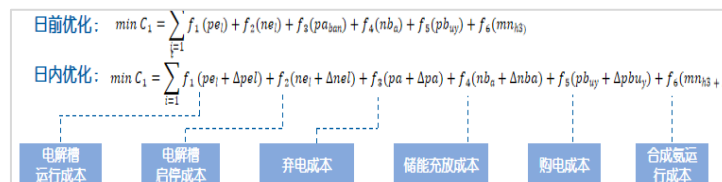
System Solutions for Integrated Project



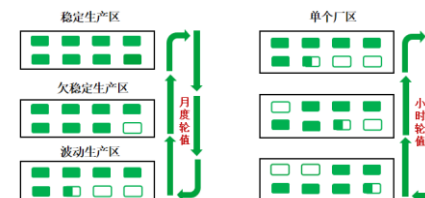
ReIPS



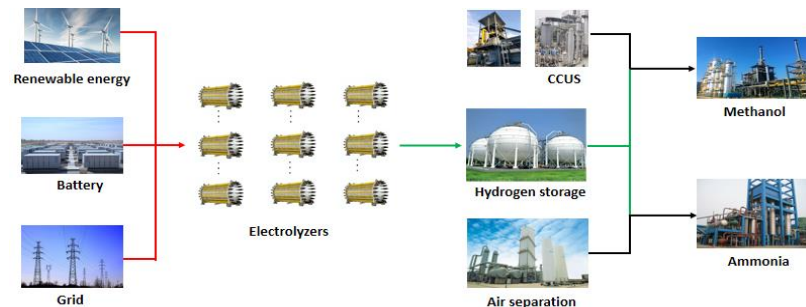
Power Dispatch



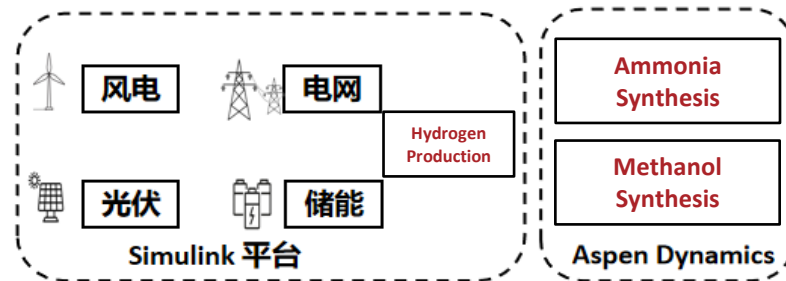
H₂ Production Cluster Control



Dynamic simulation for each unit process

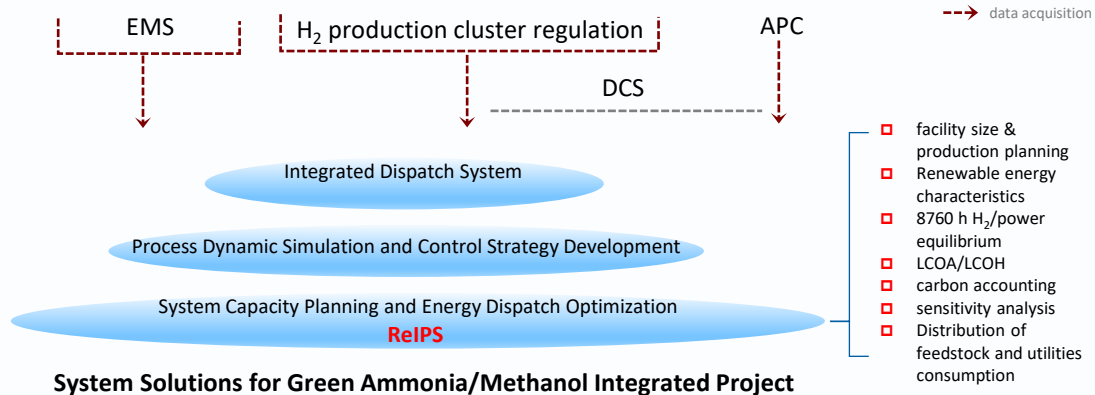
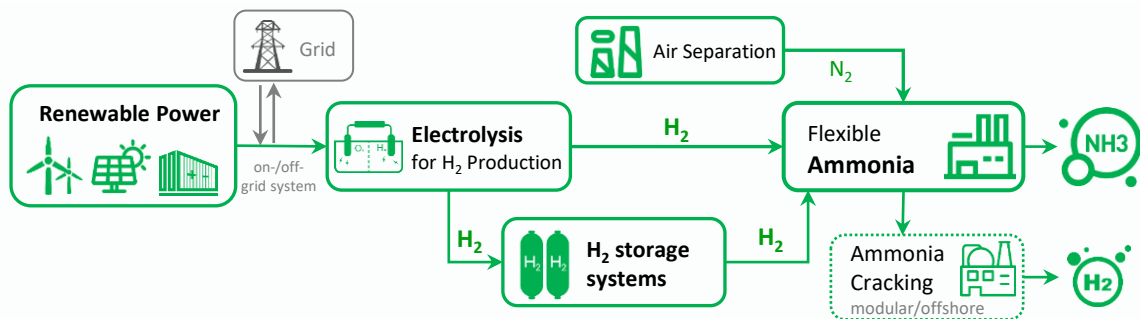


Validation

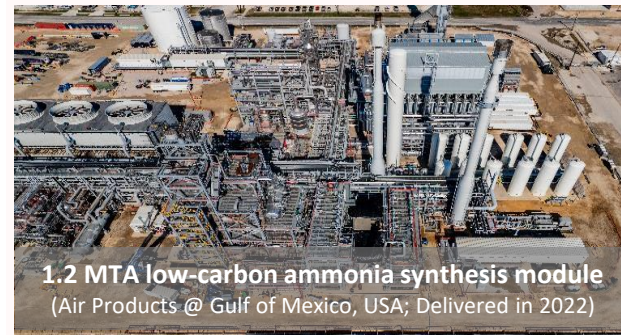


Green Chemical Process System Simulation Platform

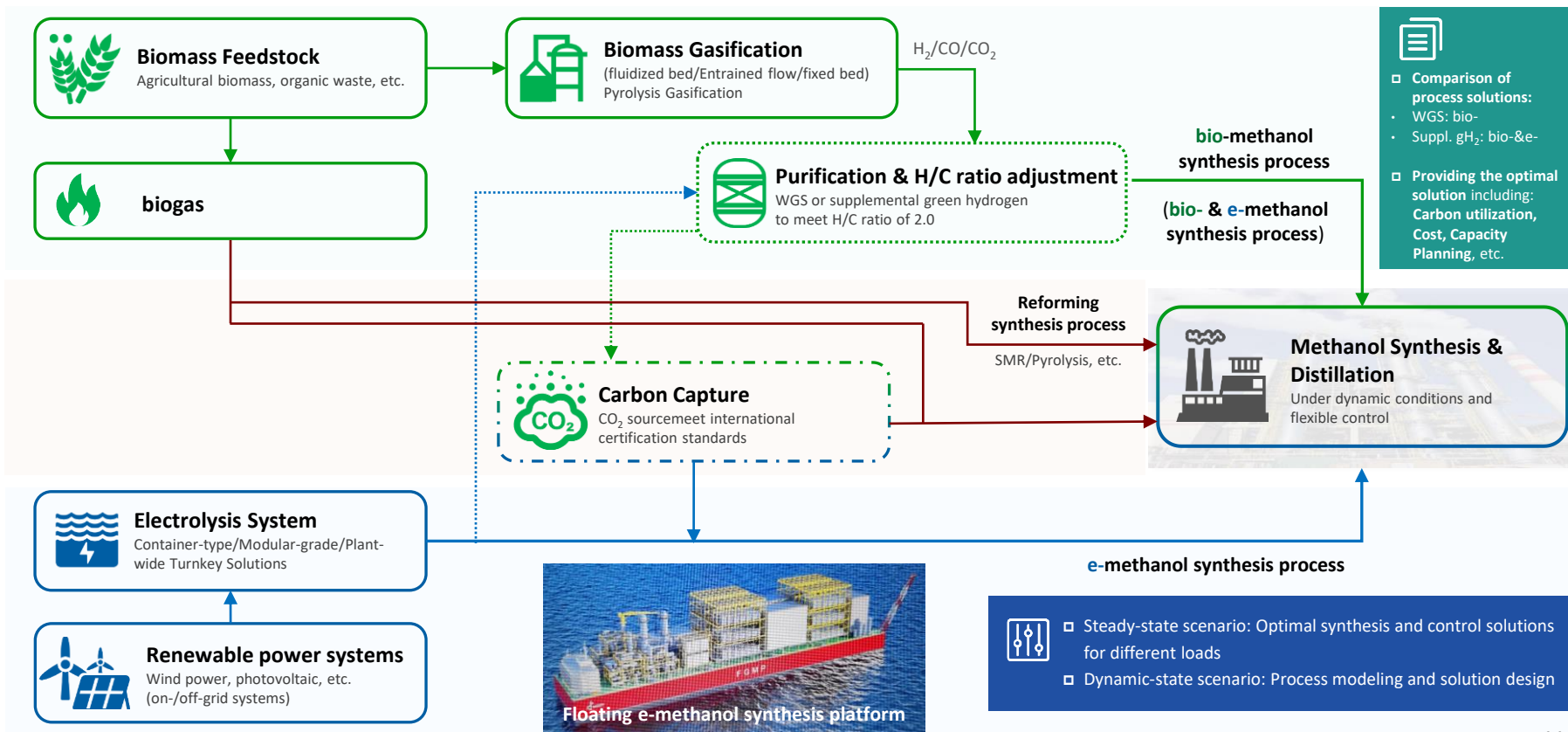
Product Line Layout - Green Ammonia



Modular + Offshore Ammonia Synthesis Solutions



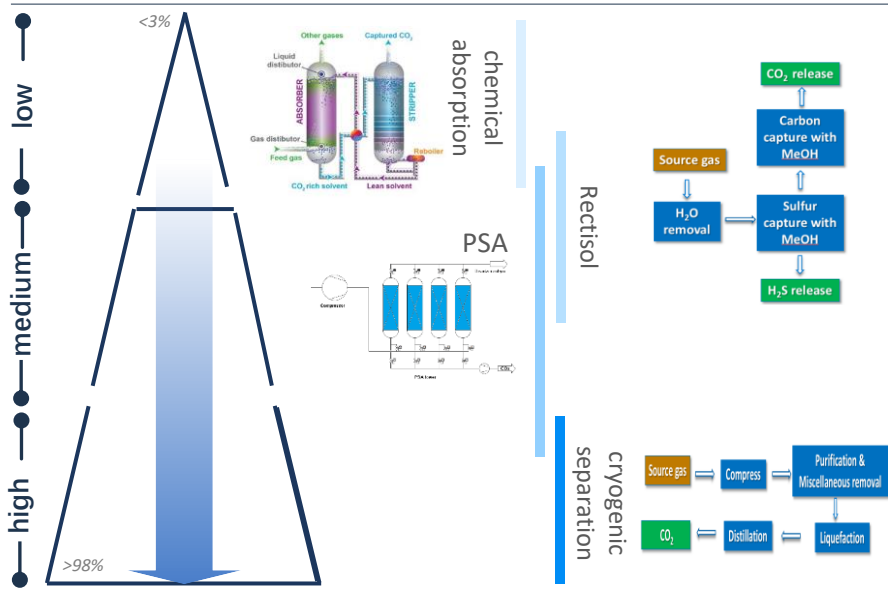
Product Line Layout - Green Methanol



Carbon Capture Technology and Engineering Solutions



System solutions based on CO₂ concentration in feed gas



Process
Optimization



Technology
Integration

Carbon Capture Process Technology

(certain chemical absorption method as an example)

Technical Highlights



Stable, low energy consumption,
low loss

Absorbent



High performance and optimized
heat and mass transfer

Tower/Reactor



High-efficiency heat
recovery/reuse

Energy-saving System

Technical Index

>90%

CO₂ capture
efficiency

>33 times

Degradation resistance
Compared with conventional MEA

~2.1 GJ/t CO₂

Absorbent regen.
energy consumption
with energy-saving processes

0.4~0.8 kg/tCO₂

Absorbent unit
consumption

Process Features



15-170 kta CO₂

Capture Design Range



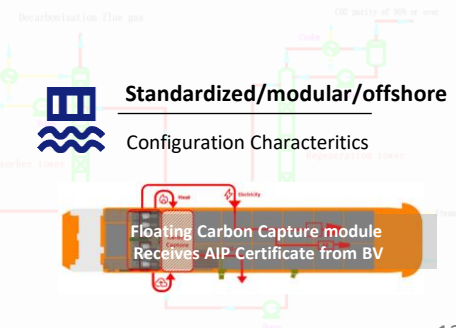
Standardized/modular/offshore

Configuration Characteristics

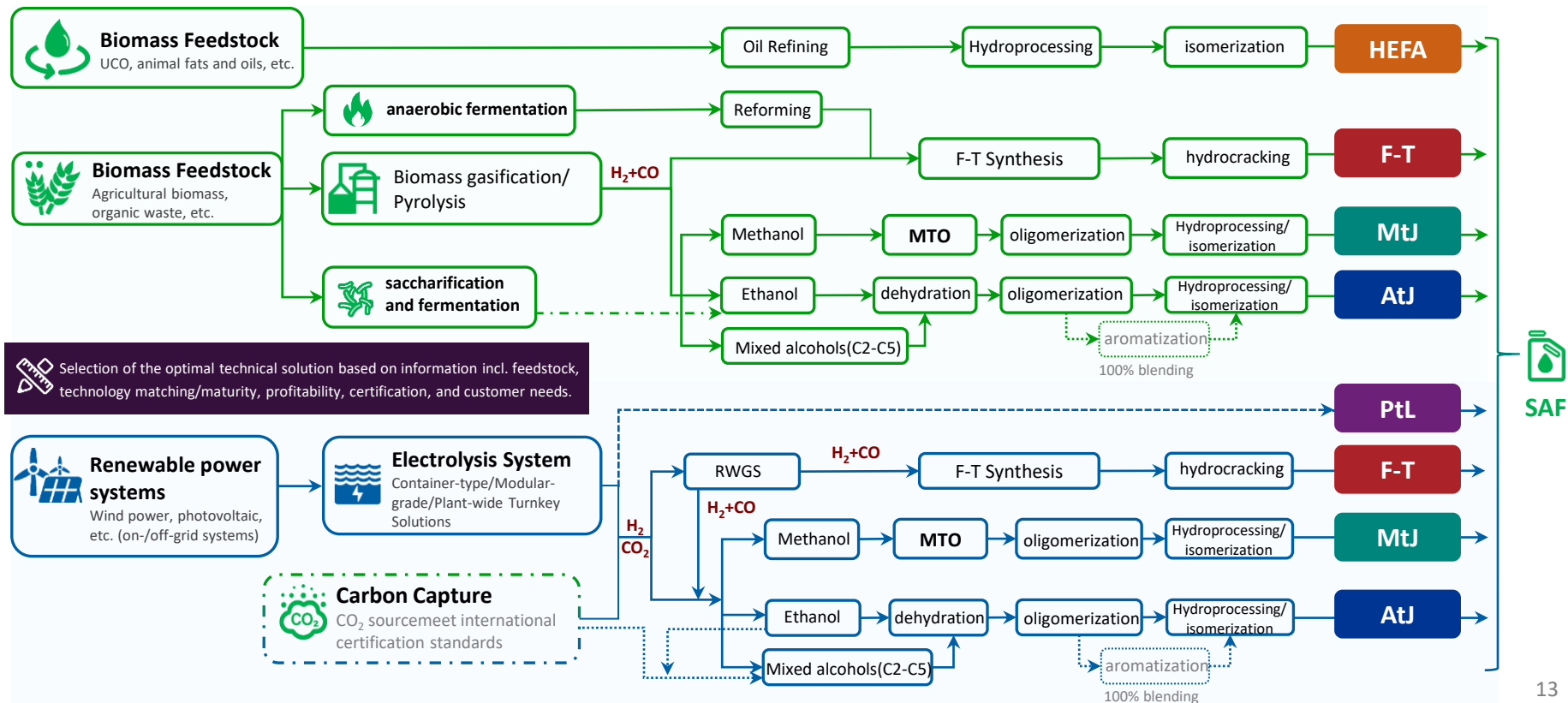


Adapting dynamic process
under gH₂ fluctuation

Control Strategy



Product Line Layout - SAF



Strength of WISON - Overall Characteristics and Capabilities



Extensive Project Experiences

- ❑ Global Project experience in the fields of Petrochemical (**500+**), Petroleum & Refinery (**50+**), and C1 Chemical (**300+**), with extensive overseas project experience
- ❑ **20+** hydrogen production projects, *incl.* electrolysis for chemical industry
- ❑ **10+** methanol and ammonia projects
- ❑ **10+** refinery references with hydroprocessing/isomerization/separation



Competitive and Complete Supplier Network

- ❑ Around 3,000 domestic and international suppliers across 24 countries *incl.* ASME/EN and CE marks



Leading Marinazition Capability

- ❑ Two yards for the construction and integration of floating facilities and modules
- ❑ International team with experience in the offshore and marine industry
- ❑ Capability of floating renewable fuel/chemical solutions (*e.g.*, green ammonia/methanol)



Strong Modular R&D, Design and Delivery Capability

- ❑ Over 510,000 tons of modularization structures delivered
- ❑ Maximum module size delivered: 12,000 t
- ❑ 41 projects delivered across 14 countries

Wison Ignites Innovation

