

JJ-Lurgi
Engineered for you





EMPOWERING SOLUTIONS THROUGH TECHNOLOGY

JJ-Lurgi Engineering is a joint venture between Jebsen & Jessen (SEA) and Air Liquide Global E & C Solutions Germany GmbH. Our engineering roots are in Germany; in Asia we contract ourselves locally and have established in-house a new generation of expertise attuned to oilseeds extraction and processing of vegetable oils. With more than 200 years combined experience, we produce highly customisable solutions that fit our clients' needs while reducing waste and cost. Our technologies include Oilseeds Extraction, Edible Oil Refining, Fats Modification, Oleochemicals and Methylester (Biodiesel).



OUR TECHNOLOGIES



OILSEEDS
EXTRACTION



EDIBLE OIL
REFINING



FATS
MODIFICATION



OLEOCHEMICALS



METHYLESTER
(BIODIESEL)

OUR EXPERTISE

Our experience and expertise provide valuable insights into the nuances of oleo culture, influencing our work now and into the future. We have grown over the years to become a fully-fledged and well-regarded engineering practice today.

- Successfully delivered more than 300 process plants across China and Southeast Asia.
- An innovation leader in technology and process development.
- Full engineering services, delivered here in Asia.
- A track record of long-term relationships built on client satisfaction.



OILSEEDS EXTRACTION TECHNOLOGY

Soybean, Rapeseed and Palm Kernel extraction are perhaps the most popular applications for our Solvent Extraction technology. With the ever-changing global economy, we are tasked with the need to design flexible plants that can process multiple feedstocks with a main focus on low steam consumption, high heat recovery, minimal waste generation and low hexane loss. With our in-depth knowledge and continuous improvements, we have successfully delivered many milestone projects, amongst them a 6000 TPD soybean extraction plant and 1000 TPD Palm Kernel Extraction plant, the biggest in this region.

Oilseeds Extraction Processes

PREPARATION

- Cleaning/Weighing
- Conditioning
- Crushing
- Dehulling
- Pre-Pressing
- Flaking
- Expanding
- Stabilising

EXTRACTION

- Solvent Extraction
- Desolventising-Toasting-Drying-Cooling (DTDC)
- Miscella Distillation
- Solvent Recovery
- Oil Drying/Degumming
- Lecithin Drying



EDIBLE OIL REFINING TECHNOLOGY

Lurgi developed the first deodoriser in 1916 and pioneered the use of mammoth pumps in our refinery. As an industry leader with more than 100 years of experience, we have built a strong foundation in edible oil processing and forged long-term partnerships with our key clients. With the increasing demand for high quality and healthy food with very low levels of contaminants, JJ-Lurgi is ready to provide innovative solutions for the mitigation of 3-MCPD and GE in refined oils.

Edible Oil Refining

- Degumming
- Neutralisation
- Soapstock Splitting
- Winterisation
- Deacidification
- Batch Bleaching
- Continuous Bleaching
- Semi Continuous Deodorisation
- Continuous Deodorisation
- Batch Deodorisation





FATS MODIFICATION TECHNOLOGY

Most edible oils have limited applications when used in their original form. With certain modifications, we can change the properties to maximise their industrial utilisation. JJ-Lurgi has perfected the techniques of fats modification through various processes, including oil fractionation and hydrogenation. With the continuous collaboration with our clients and efforts from our R&D team, we have developed a wider range of controls to achieve higher yields and stable product quality.

Dry Fractionation

- Coil and Fin Type Crystallisers

Oil Hydrogenation

- Batch and Continuous



OLEOCHEMICALS TECHNOLOGY

JJ-Lurgi is regarded as a market leader in Asia for basic oleochemicals technologies including fatty acid, methylester, glycerine and fatty alcohol production. We share our technical know-how and industry experience with our clients through advanced solutions that optimise resources, reduce cost and minimise environmental impact.

Fatty Acid Technology

- Oil Pretreatment
- Oil Splitting with Preconcentration
- Fatty Acid Distillation
- Fatty Acid Fractionation
- Fatty Acid Hardening (Batch/Continuous)
- Glycerine Recovery from Oil Splitting/Transesterification Technology
- Glycerine Water Pretreatment
- Glycerine Water Evaporation
- Glycerine Distillation and Bleaching

Fatty Alcohol Technology

- Wax Ester Preparation
- Wax Ester Hydrogenation
- Methylester Hydrogenation
- Fatty Alcohol Refining
- Carbonyl Conversion



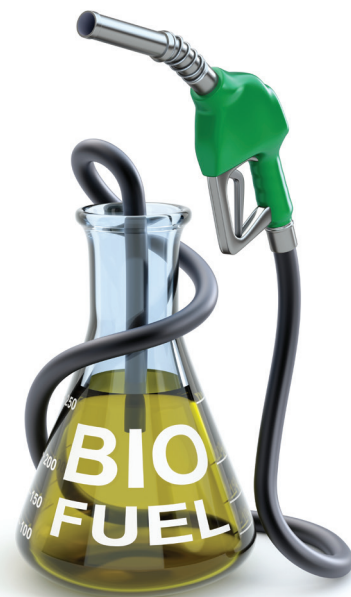


METHYLESTER (BIODIESEL) TECHNOLOGY

Since the 1990s, Lurgi GmbH has earned a stellar reputation across Southeast Asia for building methylester (biodiesel) plants that meet our clients' high expectations and help them maximise their returns on investment. Today, JJ-Lurgi equips the industry with multipurpose technology for the effective processing of most vegetable and animal oils and fats into quality biodiesel.

Methylester (Biodiesel) Technology

- Transesterification
- Methanol Recovery
- Methylester Distillation
- Methylester Fractionation
- Methylester Hardening



PROCESS OPTIMISATION & PLANT UPGRADING

At JJ-Lurgi, we work hard to ensure that our engineering team ranks among the best in the region. While leading innovation in the oils & fats, oleochemicals, and biodiesel sectors, we support our clients from design through to installation and maintenance. Our after-sales engineers also provide troubleshooting, plant diagnosis and plant upgrading services for true end-to-end client support.

Thanks to our network of offices across Southeast Asia, we are able to respond quickly to all of our clients' needs, proving our reliability and earning us many long-term clients.

JJ-LURGI AFTER-SALES SERVICES

PLANT AUTOMATION
& PROCESS CONTROL
IMPROVEMENT

PLANT PERFORMANCE
RESTORATION

GLOBAL SOURCING AND
SPARE PARTS SALES



CONTROL SYSTEM
UPGRADE

PLANT RETROFITTING
AND REFURBISHMENT

TROUBLESHOOTING
AND PROCESS
CONSULTATION

YOUR INNOVATION PARTNER

We believe in taking a long-term view of all our client relationships. That is why at JJ-Lurgi, we always invest time and effort in understanding our clients' businesses, opportunities and challenges.

By first listening to our clients' needs, we are able to apply our experience and expertise in a more effective way to deliver highly customised solutions that are optimal for them. Our R&D team also works in partnership with clients to seek greater innovation for the best results.

OUR COMMITMENT TO SAFETY AND THE ENVIRONMENT

When it comes to safety and the environment, we make no compromises. We adhere strictly to OHSAS 18001 and ISO 14001 standards every day, assuring our clients that the work we do is held to high standards of safety and with minimal downtime.

In complying with the OHSAS 18001 standard, we seek to minimise risks to our employees, demonstrate diligence and gain assurance that our processes are safe.

In being ISO 14001 certified, we follow an international environmental standard that not only minimises negative impact on the environment and people, but also reduces waste production and disposal costs.



OHSAS 18001

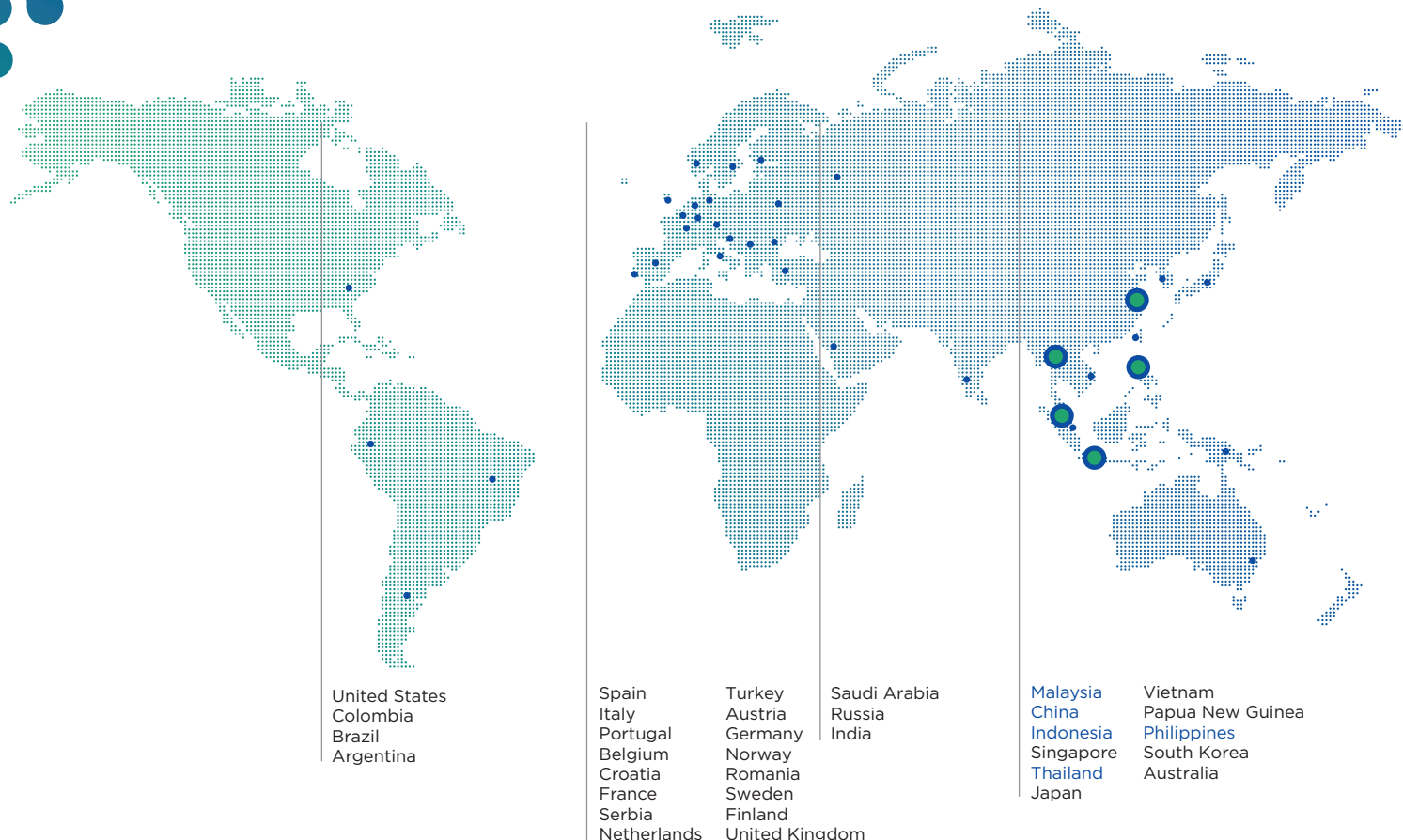


ISO 14001





PROJECT LOCATIONS



OFFICES

● Malaysia

Head Office &
Technology Centre

JJ-Lurgi Engineering Sdn Bhd
No. 7-13A-01 Level 13A
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● China

Subsidiary Office

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Subsidiary Office

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