

1,4 BUTANEDIOL (BDO) AND DERIVATIVES

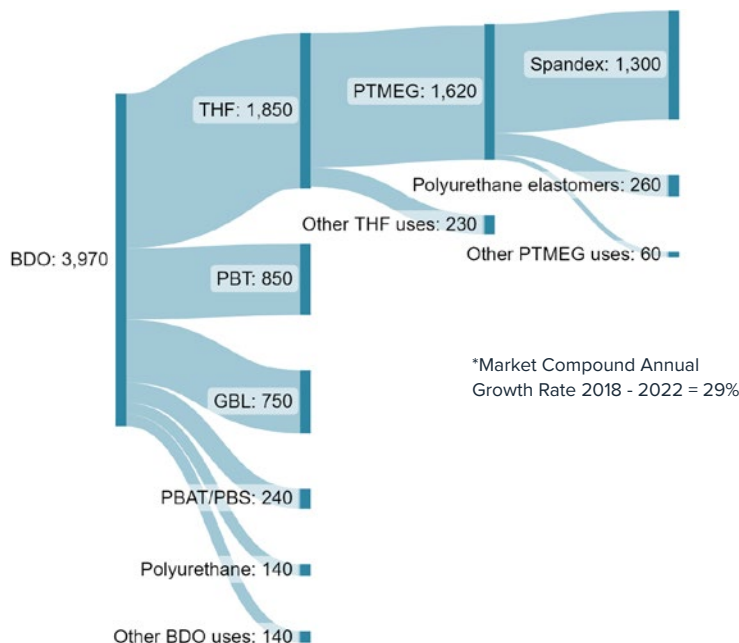


KTS is the Global Leader in technology-based solutions for the BDO, THF and PTMEG industries.

We license process technology and enable our customers to build, operate and maintain world scale production units throughout the BDO value chain. With 3.8 million annual tonnes of BDO/PTMEG capacity licensed around the world, KTS is the leading licensor by volume and number of units. KTS has the lowest capital and operating cost solution for your business.

The BDO value chain is vital in a number of key markets.

BDO Value Chain (Estimated Global Demand for 2024 - KTA on a BDO Basis)



Our Track Record

20+

» Years of Continuous BDO/PTMEG Licensing

47

» Production Units Licensed with BDO/PTMEG Technology

7

» Customers with Multiple BDO/PTMEG Licensed Plants

1.7 million

» Tonnes Per Year of BDO/PTMEG Capacity in Operation Globally using KTS Technology

2.1 million

» Tonnes Per Year of KTS BDO/PTMEG Technology Under Execution

Performance Benefits

Proven Technology

KTS license the world's largest and most cost competitive 300 KTA BDO and 60 KTA PTMEG plants.

Superior Product & Services

KTS's BDO and PTMEG are qualified across the full range of major end uses. Market-leading Technology Transfer & Customer Services.

Operational Excellence

Lower capital cost and lower operating costs.

Excellent Track Record

Fast project execution, quick ramp up to design rate.

LOW RISK, HIGH RETURN ON INVESTMENT

KTS as a Preferred Partner

We can offer a range of plant capacities, configurations and support to suit your needs. KTS has developed a deep knowledge of technology transfer from years of licensing. We've leveraged the expertise of our scientists, engineers, project managers and operations experts to create a proven project execution and technology transfer model to fast-track projects, achieve robust and reliable BDO/PTMEG plants and maximize the return on capital investments. Our licensees typically achieve a 24- to 28-month project schedule.

We do more than simply sell a license. We're a partner in the design, build, operation and maintenance of process units. From critical equipment and vendor management to start-up support and training, our proven technology transfer approach means our clients are able to be faster to market and trust their plants will have high uptime and industry-leading performance.

As a licensee, you'll have access to upgrade technologies, improvements and assistance through our market-leading customer service program. As part of our customer service program, we offer a full range of technical expertise in the fields of chemistry, process engineering, functional engineering, inspection (at overhauls) and commercial services.

Koch Engineered Solutions (KES) is a global solutions provider that encompasses products, services and expertise across a wide range of industries. KES companies design, manufacture and install process, pollution control and sustainability solutions for industries and cities around the world. More information is available at KochEngineeredSolutions.com.

