

Application of Photonics Technology in Energy Industry

Photonics technology has been widely used in the energy industry. With the demand for real-time monitoring, optical fiber communication has played an important role in the communication system of the power grid due to its advantages, such as large-capacity communication and long-distance transmission. In the petroleum and petrochemistry sector, infrared thermal imaging technology can perform real-time monitoring under extreme conditions. In addition, photonics technology gives new access to improving battery life and performance, working out prominent bottlenecks of traditional die-cutting technology, and providing laser processing technologies such as laser welding and cutting to enhance the stability of products.

APE 2024 (Asia Photonics Expo) is a comprehensive exhibition covering the whole photonics industry chain, providing more innovative technologies and products for energy enterprises focusing on lithium-based batteries, intelligent electric power and power grid, petroleum and petrochemistry, solar power and coal. It is a one-stop solution platform that helps enterprises source products, learn about innovative technologies and conduct communication or business connections.

APE 2024

Asia Photonics Expo

March 6-8, 2024

Marina Bay Sands Singapore

15,000
Exhibition Area

5,000+
Visitors

400+
Exhibitors

Exhibitor Profile



INFORMATION AND
COMMUNICATION



PRECISION OPTICS
& CAMERA



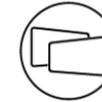
INTELLIGENT
SENSING



INFRARED
APPLICATIONS



LASERS TECHNOLOGY &
INTELLIGENT MANUFACTURING



DISPLAY
TECHNOLOGY

Exhibit Profile

Core Components

- Lidars
- Displacement Sensors
- Pressure Sensors
- Infrared Sensors
- Optical Fiber Sensors
- Lasers
- Optical Communication Devices and Modules
- Optical Fiber Cables
- ...

Manufacturing

- Laser Welding/Marking/Cutting/Cleaning/ Scribing and other Laser Processing Equipment
- Lidar Splitters
- Spectrometers
- ...

Surveillance System

- Thermal Imaging Warning and Monitoring System
- Temperature Monitoring System
- Inspection Robots
- Drones
- Infrared Thermal Imagers
- Infrared Thermometers
- Infrared Night Vision Devices
- Infrared Monitors
- Gas Leakage Detectors
- Gas Analyzers
- ...

Target Visitors

Electric Power and Grid Firms, Lithium Battery Firms, Oil and Petrochemical Firms, Solar Energy Firms, Coal Firms and Other Energy Firms

Key Exhibitors

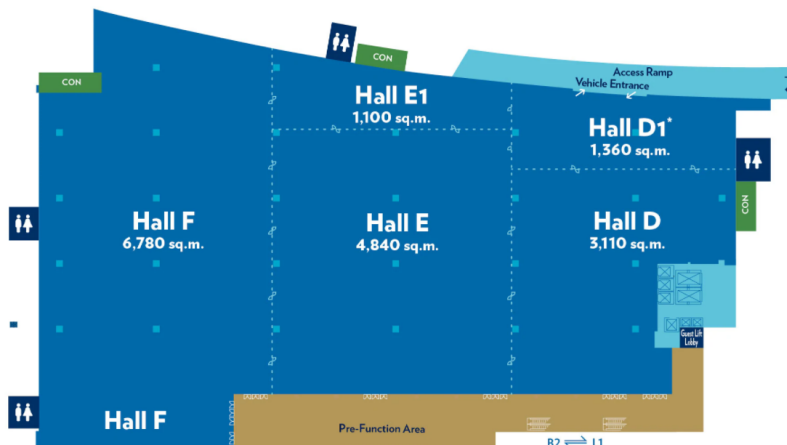


FLOOR PLAN

EXHIBITION HALLS ON

B2

Floor Area 17,190 sq.m.



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Contact Us

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