Presented in this issue are some of our deliveries made in response to our customers' needs based on our combined expertise developed by our three business segments, i.e., engineering services, pipe business, and materials business units.



## Special Issue Highlighting Mesco's References of Recent Years !



Tokyo University's large-scale cryogenic gravitational wave telescope KAGRA - Arm Tunnel (vacuum duct)

Pipie Engie

Materia

From Metal Ores to Space Technology

Count on Our Expertise with Abundant Experience

Non-ferrous Metals Smelting Copper Smelting Plants Zinc Smelting Plants Lead Smelting Plants Non-ferrous Metals Processing Semi-finished Copper Product Manufacturing Plants Semi-finished Zino Product Manufacturing Plants Semi-finished Lead Product Manufacturing Plants

#### Electronic Materials Manufacture Electrolytic Copper Foil Manufacturing Plants Flexible Circuit Board Manufacturing Plants Chemicals Feeders for Electronic Materials Production

#### Factory Automation Machinery Automatic Cathode Stripping Machines Automatic Ingot Casting Machines

Other Factory Automation

Equipment

Environmental Installations Industrial Waste Treatment Plants Exhaust Gas Treatment Facilities Waste Water Treatment Plants Petrochemical Plants, Labs, etc. Petroleum Related Installations Research Laboratory Equipment

Plant & Works Construction



Nonferrous Metals Smelting

2008

September 2008 Completion of installation of a replacement electrostatic precipitator for a fluidized bed roasting plant at Kamioka Mining & Smelting's sulfuric acid plant



Electronic Materials Manufacture

November 2008 A new plant construction for MCF [Mitsui Copper Foil (Malaysia) ]

2010

2011



Early part of 2011

2012

Construction in progress of a gravitational wave telescope KAGRA for Tokyo University's Institute for Cosmic Ray Research

2013



Petrochemical Plants, Labs, etc.

2014

November 2012 Completion of a plant construction and its handover to P.T. Mitsui Kinzoku Catalysts Jakarta



2017

Petrochemical Plants, Labs, etc.

March 2014 Earthquake resistant reinforcement of a spherical LPG tank

2016



March 2016 Completion of construction of an exhaust gas treatment plant for Mitsui Mining & Smelting's Takehara Refinery

2019



2009



April 2014 Completion of construction of a boiler for Mitsubishi Material's Naoshima PLant



March 2015 Order received for construction of a cooling tower unit at UACJ's new plant under construction in Thailand



2015

March 2016 Construction of a production plant annex for Hitachi High Technologies



2018

Totally 59 Units Delivered ISA Process electrolytic copper cathode stripping machines delivered throughout the world



### World's Fastest Copper Cathode Deposit Stripping Machine !!!

Copper anodes produced from the ore at a smelter are brought to a refinery for dissolution in an electrolyte and deposition on stainless steel cathode plates. The deposits are then removed from the stainless steel plates by a stripping machine to obtain copper cathodes of the purity of 99.99% minimum. Our stripping machines are the fastest in the world and are composed of oil hydraulic/pneumatic equipment, transfer units, sensors of various kinds, electric/electronics devices, etc., all technologically integrated into the system. Such technologies can be utilized for other similar applications of automation. Please consult us on your plans of installing new automatic machines, as well as replacement, renovation, and efficiency improvement of your existing machines.

We pursue high-levels of our customers' satisfaction of our services starting from the planning/design stages, then ranging to the procurement, construction, commissioning phases, and finally all the way up to the after-sales services.

We have our business bases established in various countries in Aisa (Taiwan, Malaysia, Thailand, etc.) and have serviced not only the nonferrous metals smelting industries but also the chemical and electronics industry segments in those countries. Our recent deliveries also include renewable energy projects, covering a number of hydropower and solar power generation plants. Please count on our expertise backed by abundant experience and references of ours with which we will respond to your needs of various kinds in your new plant construction, energy saving, capacity increase, rationalization, and other projects.

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MESCO

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Supporting the Technologies for Tomorrow

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