

Energy-Saving Activities of Kobe Steel Group Companies

Company name	Location	Example of initiatives
Kansai Coke and Chemicals Co., Ltd.	Amagasaki, Hyogo Prefecture	Introduction of VVVF inverter control systems for sea water pumps
Shinko Kenzai, Ltd.	Amagasaki, Hyogo Prefecture	Prevention of air leaks, energy-savings by turning off power and lights
Shinko Wire Company, Ltd.	Amagasaki, Hyogo Prefecture	Updating to energy-saving lighting, extinguishing lights by use of skylights, upgrading with top-runner transformer
	Kakogawa, Hyogo Prefecture	Introduction of inverter control systems for motors, switching to LED lighting
Shinko Kobe Power Inc.	Kobe, Hyogo Prefecture	Power-savings of sea water pumps by reducing amount of sea water. Maintaining power generation efficiency of boiler by chemical cleaning
Kobe Special Tube Co., Ltd.	Shimonoseki, Yamaguchi Prefecture	Introduction of ceramic radiators for heating equipment
Shinko Bolt, Ltd.	Ichikawa, Chiba Prefecture	Reduction of transport energy through introduction of recoil shot blast machine
Ceratechno Co., Ltd.	Bizen, Okayama Prefecture	Utilization of waste heat at the drying furnace cooling zone, installation of invertors for vacuum pumps, etc.
	Akashi, Hyogo Prefecture	Optimization of saturated vapor pressure for each season, reduction of electric power and fuel consumption
Tesac Wire rope Co., Ltd.	Kaizuka, Osaka Prefecture	Energy-savings through boiler upgrades
Nippon Koshuha Steel Co., Ltd.	Imizu, Toyama Prefecture	Upgrading of air compressor, saving air through leak checking
Japan Aeroforge, Ltd.	Kurashiki, Okayama Prefecture	Introduction of top runner transformers, control of number of units of hydraulic circuits
Sanwa Tekko Co., Ltd.	Ama-gun, Aichi Prefecture	Switching to LED lighting for overhead crane and in ceiling
Shinko Kohan Kako Co., Ltd.	Ichikawa, Chiba Prefecture	Reduction of electric power consumption by using drill machine at the laser cutting machine
Kobe Special Steel Wire Products (Pinghu)	Pinghu, Zhejiang, China	Switching to LED lighting
PRO-TEC Coating Company	Ohio, United States	Replacement to high-efficiency equipment and high-efficiency lighting. Use of motion detecting sensors to reduce power consumption.
Kobe CH Wire (Thailand) Co., Ltd	Bangkok, Thailand	Switching a portion of lights at plant to LED lighting
Kobelco Spring Wire (Foshan) Co., Ltd.	Foshan, Guangdong, China	Energy-saving design for factory building (ceiling daylighting, summer heat measures), energy-savings during heat treatment and through concentrated production, etc.
Kobe Wire Products (Foshan) Co., Ltd.	Foshan, Guangdong, China	Reduction of LPG unit consumption by better maintenance, promotion of activities to lower energy consumption rate through improved manufacturing yield and productivity
Shinko Actec Co., Ltd.	Toyooka, Hyogo Prefecture	Introduction of energy-saving cooling tower
Hanshin Yosetsu Kizai Co., Ltd.	Okayama, Okayama Prefecture	Reduction of kerosene consumption by reviewing burning temperature, reduction of transport energy of pneumatic transport system. Partial switching to LED ceiling lights
Shinko Welding Service Co., Ltd.	Fujisawa Kanagawa Prefecture	Shortening the time of blower operation
Shinko-North Co., Ltd.	Kasumigaura, Ibaraki Prefecture	Reduction of power consumption through transformer upgrades
Kobelco Welding Asia Pacific Pte. Ltd.	Singapore	Introduction of high-efficiency lighting
Kobe Welding Of Qingdao Co., Ltd.	Qingdao, Shandong, China	Introduction of high-efficiency lighting.
Thai-Kobe Welding Co., Ltd	Samut Prakan, Thailand	Energy-savings by utilizing waste heat, power-savings by utilizing small motors, saving air through leak checks
Kobelco Welding of Europe B.V.	Heerlen, Netherlands	Introduction of high-efficiency lighting.
Shinko Fab Tech, Ltd.	Shimonoseki, Yamaguchi Prefecture	Optimized operation through energy visualization, temperature diagnosis of large furnaces, upgrades to high-efficiency transformers
Shinko Metal Products Co., Ltd.	Kitakyushu, Fukuoka Prefecture	Energy conservation through preheating furnace refractory upgrades, reduced heat loss through changes to temperature control methods
Shinko Leadmikk Co., Ltd.	Kita-Kyushu, Fukuoka Prefecture	Energy-saving activities for air conditioners, reduction of power by turning off equipment when stopped, carrying out patrols for energy-savings
Shinko Aluminum Wire Co., Ltd.	Sakai, Osaka Prefecture	Introduction of inverter control systems for fan motor at heat treat furnace, reduction of city gas consumption by stopping the heating of heat treat furnace before use
Kobelco & Materials Copper Tube, Ltd.	Hadano, Kanagawa Prefecture	Improvement of manufacturing yield, checking the set pressure of compressors, introduction of high-efficiency air conditioners. use of LED lighting
Kobe Precision Technology Sdn Bhd	Penang, Malaysia	Introduction of LED lighting, Upgrading to high-efficiency air conditioners
Kobe Aluminum Automotive Products (China) Co., Ltd.	Suzhou, Jiangsu, China	Energy-saving at plant by thinning of ceiling lights, use of on/off timers, checking frequency of inverter at ceiling ventilating fan
Shinko Engineering Co., Ltd.	Ogaki, Gifu Prefecture	Improvement of yield through use of casting simulation software, improvement of operating rate through use of carburizing simulation software, etc.
Kobelco Shinwa Co.,Ltd	Akashi, Hyogo Prefecture	Introduction of energy-saving compressors and LED lighting
Kobe Heating and Cooling Supply Co., Ltd	Kobe, Hyogo Prefecture	Controlling of peak electric power in summer by using heat storage tank
Kobelco Research Institute, Inc.	Kobe, Hyogo Prefecture	Energy-savings by improving manufacturing yield and productivity, switching of company cars to fuel-efficient vehicles
	Takasago, Hyogo Prefecture	Upgrading to high-efficiency air conditioners
	Amagasaki, Hyogo Prefecture	Energy-savings through optimization of hydraulic settings, reduction of energy consumption of air conditioners through use of insulating materials
Kobelco Construction Machinery Co., Ltd.	Hiroshima, Hiroshima Prefecture	Energy-savings through introduction of central monitoring systems, use of LED lights in factory lighting
	Ogaki, Gifu Prefecture	Extinguishing lights during non-working hours, switching from mercury lights to fluorescent lights at factory
Kobelco Cranes Co., Ltd.	Akashi, Hyogo Prefecture	Introduction of high-efficiency equipment; switching to LED lighting
Kobelco Eco-Solutions Co., Ltd.	Kako-gun, Hyogo Prefecture	Energy-savings through combustion adjustment of combustion furnace
Shinko Industrial Co., Ltd.	Kurayoshi, Tottori Prefecture	Use of hot water from waste heat of annealing furnace*
Japan Superconductor Technology, Inc.	Kobe, Hyogo Prefecture	Changing of air conditioner temperature settings, extinguishing ceiling mercury lights during breaks, green curtains (bitter melon cultivation), etc.
	Kita-Kyushu, Fukuoka Pref.	Reduction in use of air conditioners
Twin Foods Co., Ltd.	Ichikawa, Chiba Prefecture	Use of LED lighting, introduction of invertors for freezer fans

* Annealing furnace: Heat treatment furnace used to improve material characteristics.