



中国五矿



MCC 中国恩菲

致力于成为最值得信赖的国际化
工程综合服务商及能源环境发展商

ENFI is striving to be the most trust worthy international company committed
to integrated service for international projects and energy & environmental development.



中国有色工程有限公司

CHINA ENFI ENGINEERING CO., LTD.

中国恩菲工程技术有限公司

CHINA ENFI ENGINEERING CORPORATION

电话 \ Tel: +86-10 63936881 +86-10 63936672

地址 \ Add: 中国北京复兴路12号 邮编: 100038

No.12 Fuxing Avenue, Beijing of China. 100038

网站 \ Web: www.enfi.com.cn

点资源之石 成事业之金

TURN A STONE OF RESOURCE INTO
A GEM OF UNDERTAKING



创新恩菲七十载 踔厉奋发向未来



中国有色工程有限公司暨中国恩菲工程技术有限公司(简称“有色院(中国恩菲)”),前身是中国有色工程设计研究总院(即原北京有色冶金设计研究总院),成立于1953年,是中华人民共和国成立后,为恢复和发展我国有色金属工业而设立的第一家全国性专业设计机构,现为世界五百强企业中国五矿、中冶集团骨干子企业,是在行业内具有突出影响力,在国际上知名的品牌企业。

经过七十年的发展,有色院(中国恩菲)已经成为人才集聚、专业齐全,具有领先的技术创新能力、成熟的项目管理能力、突出的工程集成创新能力,进行资源整合、产业孵化的高科技平台,可以提供从投(融)资、咨询、规划、设计到建设、装备、运营等项目全生命周期服务。

有色院(中国恩菲)以人才和技术为本,立足有色矿冶工程,依靠科技创新驱动,高端咨询引领,发展科学研究、工程服务与产业投资三大业务领域,深耕非煤矿山、有色冶金、水务资源、能源环境、新材料、市政文旅、城市矿产、智能装备、房产经营九个业务单元,形成核心能力突出、竞争优势明显、国际化运作、特色鲜明的多元业务集群,致力于成为最值得信赖的国际化工程综合服务商及能源环境发展商。

ENFI, formerly known as China Nonferrous Engineering and Research Institute, established in 1953, is the first engineering institute since the founding of the People's Republic of China dedicated to the recovery and development of China's non-ferrous metals industry. ENFI is now a backbone subsidiary of MINMETALS and MCC, both in the Fortune 500 companies list. The company has an influential existence in the industry in China, and is widely known around the globe.

After more than seventy years of growth, ENFI has boasted a large number of experts in a wide range of disciplines, and strong R&D capability and rich experience in project management and integration. With a large client base and widespread partnerships, ENFI has remarkable strength in pooling resources and incubating projects, able to provide services covering every step in the project life cycle, from investment (financing), consultancy, planning, design, to construction, equipping and operation.

ENFI, with orientation of talent and technology and standpoint on the nonferrous mining and smelting projects, leads the high-end consulting industry and is dedicated to development of three business fields including scientific research, engineering service and industrial investment, especially the nine business units covering non-coal mine, nonferrous metal, water resource, energy and environment, hi-tech material, municipal culture and tourism, urban mining, intelligent equipment and real estate, relying on scientific and technological innovation. All these further form the multiple service cluster with outstanding core competency, obvious competitive advantage, internationalized operation and distinctive features. ENFI is striving to be the most trust worthy international company committed to integrated service for international projects and energy & environmental development.





工程设计综合资质证书(甲级)
Integrated Class A qualification in engineering design

有色行业首个

工程设计界等级**最高**、涵盖领域**最广**、条件要求**最严**的资质，

可承接工程领域**全部21个**行业，以及各**专业**和**专项**建设工程项目的设计业务，

可承揽资质证书许可范围相应的建设工程**总承包**、**工程项目管理**和相关的**技术、咨询**与**管理服务**业务。

The only enterprise in nonferrous metal industry.

Qualification with the highest level, the most widely covered areas and the most stringent quality requirements in engineering design community of China. Capable of undertaking design businesses for engineering projects in 21 industries of engineering field, engineering projects concerned with all disciplines in ENFI and special engineering projects, Capable of undertaking EPC projects, project management as well as relevant technical ,consulting and management services within the scope authorized in qualification certificates.



工程咨询单位甲级资信证书
Engineering consultant credit certificate Class-A



工程监理资质证书(甲级)
Engineering supervision unit Class A qualification



冶金工程施工总承包资质证书(壹级)
Grade A qualification in general contracting of smelting project construction



高新技术企业证书
High and new tech enterprise



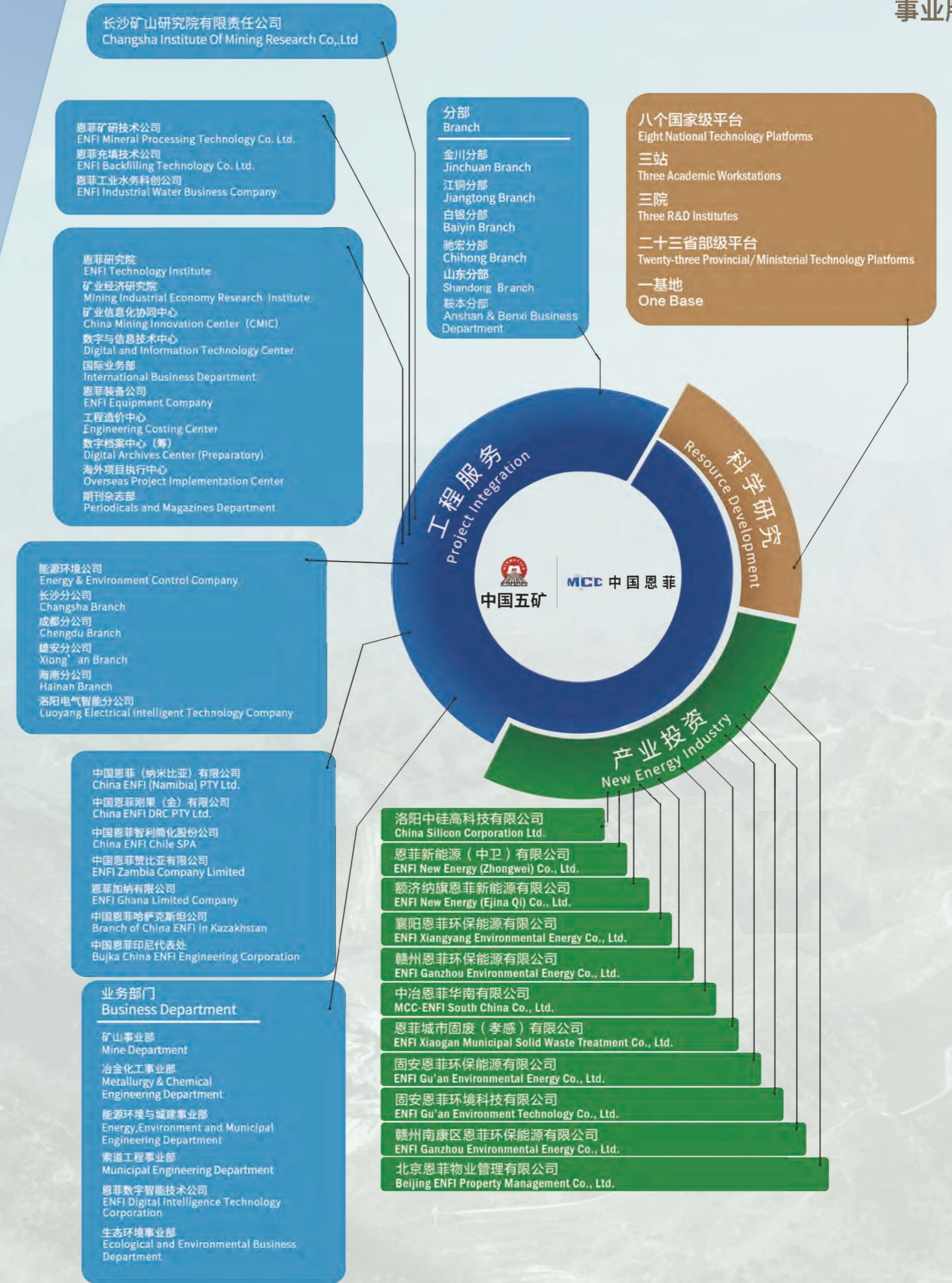
特种设备生产许可证
(压力管道设计)
Production license of special equipment(Design of pressure piping)



特种设备生产许可证
(压力容器设计)
Production license of special equipment(Design of pressure vessels)



特种设备生产许可证
(客运索道制造)
Production license of special equipment(Manufacture of passenger ropeway)





非煤矿山 Non-coal mine

主要包括有色金属矿山以及铁矿、金矿、钾盐矿、磷矿等非煤矿山采选工程、智能矿山与生态矿业建设的咨询、设计、工程总承包、科研、监理及设备成套、信息自控系统集成、工程项目建设上下游相关延伸业务。

mainly including consultation, design, EPC, scientific research, supervision and complete sets of equipment, integration of automatic information control system and extended business related to upstream and downstream project construction concerning mining and beneficiation engineering of non-ferrous metal mines and non-coal mines such as iron ore mine, gold mine, potash mine and phosphorite mine, etc., as well as intelligent mine and eco-mine industry construction.

有色冶金 Non-ferrous metallurgy

主要包括重有色金属、稀有金属、贵金属冶炼工程、高新材料工程、绿色冶炼与智能工厂建设的咨询、设计、工程总承包、科研、监理及设备成套、信息自控系统集成、工程项目建设上下游相关延伸业务。

mainly including consultation, design, EPC, scientific research, supervision and complete sets of equipment, integration of automatic information control system and extended business related to upstream and downstream project construction of heavy non-ferrous metals, rare metals, metallurgical project of precious metals, new high-tech materials engineering as well as green metallurgy and intelligent plant construction.



新材料 New high-tech materials

包括信息产业与智能制造的关键基础材料, 主要包括服务于光伏领域、电子信息领域和光通信领域的以硅基材料为核心的高新材料; 以钪基材料为代表的新型功能材料、新能源基础材料。开发高纯稀土、电池级锂盐、铋材料、三元前驱体等基础材料及其高效清洁制备工艺技术及关键装备; 研发集团公司优势金属钨铍铟铋等材料、稀土功能材料、新能源材料等。

including key fundamental materials of information industry and intelligent manufacturing, mainly including the new high-tech materials with silicon-based materials as the core, serving such fields as photovoltaic, electronic information and optical communication; new functional materials and new energy basis materials represented by scandium-based materials; developing basis materials such as high-purity rare earth, battery-grade lithium salt, antimony materials and ternary precursor, etc., as well as high-efficient and clean preparation process technology and key equipment; carrying out R&D on the dominant metal materials of the Group company, such as tungsten, beryllium, indium and bismuth, rare earth functional materials and new energy materials, etc.



能源环境 Energy environment

主要包括垃圾焚烧发电项目; 危险废物和医疗废物处置; 餐厨、污泥、建筑垃圾; 土壤污染防治与生态修复; 环境影响评价、余热利用、燃气工程、供热工程、分布式供能等领域的规划、咨询、设计、工程总承包及投资、建设、运营。

mainly including waste incineration power generation project; hazardous and medical waste disposal; kitchen waste, sludge and construction waste; soil pollution prevention and control and ecological rehabilitation; planning, consultation, design, EPC and investment, construction and operation concerning the fields such as EIA, waste heat utilization, gas engineering, heating engineering and distributed energy supply, etc.

水务资源 (水务工程及水环境综合治理) Water resources (water engineering and comprehensive management of water environment)

主要包括排水工程、给水工程、水环境综合治理、海绵城市建设、城市污水处理、工业废水处理、中水处理回用、城乡供水、污泥处置、垃圾渗滤液处理等领域的规划、咨询、设计、工程总承包及投资、建设、运营。

mainly including the planning, consultation, design, EPC and investment as well as construction and operation in the fields of drainage engineering, water supply engineering, comprehensive management of water environment, sponge city construction, urban sewage treatment, industrial wastewater treatment, reclaimed water treatment and recycling, urban and rural water supply, sludge disposal, landfill leachate treatment, etc.



市政文旅 (市政综合工程) Municipal and cultural tourism (comprehensive municipal project)

主要包括在市政基础设施、综合管廊、海绵城市、智慧城市、美丽乡村和建筑智能化、绿色建筑与建筑产业化、索道、光伏发电等业务领域的规划、咨询、设计、工程总承包及投资、建设、运营。

mainly including the planning, consultation, design, EPC and investment as well as construction and operation of business areas, such as municipal infrastructure, comprehensive pipe rack, sponge city, intelligent city, beautiful countryside and architectural intellectualization, green buildings and architectural industrialization, ropeway, photovoltaic power generation, etc.



MAIN BUSINESS
业务版块



城市矿产(城市矿产及资源再生利用)
Urban mineral resources (urban mineral resources and resource recycling)

对工业化和城镇化过程中产生的废弃资源(主要包括电子废弃物、汽车、手机、铅酸电池等)的再生利用提供规划、咨询、设计及工程总承包。

planning, consultation, design and EPC are provided for the recycling of waste resources generated in the process of industrialization and urbanization (mainly including electronic wastes, automobile, cellphone, lead acid battery, etc.)



智能装备 Intelligent equipment

依托公司专利及专有专长技术,立足有色行业和大环保领域,将智能技术、信息技术、控制技术植入到装备中,满足国内矿山、冶炼企业技改升级、节能减排、污染物治理和运营管理信息化、智能化提升的需求,为客户提供专业化、智能化的高端技术装备和服务。

relying on the company's patents and proprietary technical expertise, the intelligent, information and control technologies are incorporated into the equipment based on the non-ferrous industry and large environmental protection field to meet the requirements of domestic mines, technological transformation and upgrading of metallurgical enterprises, energy conservation and emission reduction, pollutants treatment and information application of operation management, thus providing professional and intelligent high-end technological equipment and service for the client.



房产经营 Real estate management

充分利用公司区域地理优势和公司科技型企业的磁吸效应,合理配置公司房产资源,实现公司房产价值最大化,提升公司品牌影响力。

making full use of the company's regional and geographical advantages and the magnetic effects of the technological enterprise, with rational allocation of the company's real estate resources to realize the maximization of real estate value and improvement of brand influence of the company.



PROJECT ACHIEVEMENTS
工程业绩



巴布亚新几内亚瑞木镍钴项目 Ramu Nickel-Cobalt Mining, Beneficiation and Smelting Complex, Papua New Guinea



缅甸达贡山镍采选冶联合项目 Tagaung Taung Nickel Mining, Beneficiation and Smelting Complex, Myanmar



印度德里巴底吹炼铅项目 Dariba SKS Technology Lead Smelting Project, India



越南生权铜采选冶联合项目 Sin Quyen Copper Mining, Beneficiation and Smelting Complex, Vietnam



赞比亚谦比希铜采选冶联合项目 Chambishi Copper Mining, Beneficiation and Smelting Complex, Zambia



厄瓜多尔米拉多铜矿项目 Ecuador Mirador Copper Mine



老挝东泰钾盐矿 Laos Dongtai Potash Mine



纳米比亚HUSAB 1500 MTP硫磺制酸项目 1500 MTPD SULPHURIC ACID PLANT OF HUSAB MINE IN NAMIBIA



刚果(金)卡莫阿-卡库拉项目 Project of Kamoia-Kakula in DRC



印尼OBI红土镍矿湿法冶炼项目 Project of Nickel Laterite Hydrometallurgy of OBI in Indonesia

PROJECT ACHIEVEMENTS
工程业绩



金川工程 Jinchuan Project



白银项目 Baiyin Project



德兴铜矿 Dexing Copper Mine



五矿盐湖项目 Project of Salt Lake for China Minmetals Corporation



玉龙铜矿 Yulong Copper Mine



中冶新材料项目 MCC Ramu's Ternary Precursor Project



南芬选矿厂 Nanfen Processing Plant



中原黄金项目 Project of Zhongyuan Gold Metallurgical Plant Co., Ltd.



思山岭铁矿 Sishanling Iron Ore Mine



广西金川防城港项目 Project in Fangchenggang City for Guangxi Jinchuan Nonferrous Metals Co., Ltd.

PROJECT ACHIEVEMENTS
工程业绩



江西兴南危固废处置项目 Project of Hazardous Solid Waste Treatment for Jiangxi Xingnan Environmental Protection Technology Co., Ltd.



东方希望多晶硅项目 Project of Polysilicon for East Hope Group



雄安新区垃圾综合处理设施一期工程 Phase I Project of Waste Comprehensive Treatment Facilities in Xiong'an New District



安徽马钢矿业资源综合利用新型材料科普基地项目 Project of Base for Resources Comprehensive Utilization & New Materials Publicity of Anhui Masteel Mining Industry Co., Ltd.



山东泰山中天门索道 Project of Zhongtianmen Ropeway on Mount Tai in Shandong Province



五矿稀土江华有限公司稀土矿智慧环境管理平台 Smart Management Platform of Rare Earth Metals and Environment for China Minmetals Rare Earth Jianghua Co., Ltd.



洛阳中硅高科技公司 SINOSICO



赣州市生活垃圾焚烧发电厂 Project of Domestic Waste Incineration Power Plant in Ganzhou City



赣县区大田乡废弃稀土矿区重金属综合治理工程(一期) Phase I Project for Comprehensive Treatment of Heavy Metals of Abandoned Rare-earth Mining Area in Datian Township of Ganxian District



北京良乡污水处理厂 Liangxiang Satellite Village Sewage Treatment Plant

科技创新体系 R&D System

中国恩菲拥有包括采矿、选矿、冶炼、余热利用、烟气处理、电气及控制、索道、多晶硅生产、光伏发电、垃圾焚烧发电、污水处理等各专业领域的核心专长技术体系和百余项独具特色的优势技术，搭建了“八个国家级平台、三站，三院、二十三个省部级平台、一基地”的科技创新平台，造就了一批高市场价值的科技创新成果和专利，承担了有色行业50%以上的国家标准、定额编制工作。

China ENFI possesses core specialty technology system and more than hundred unique superior technologies in the professional fields including mining,mineral processing,smelting,waste heat disposal,Off-gas cleaning,electrical and control,ropeway,polysilicon production, photovoltaic power generation,urban waste incineration power generation,sewage treatment,etc.and has built a R&D platform composed of "Eight national technology platforms,Three academic workstations,Three R&D institutes,Twenty-three provincial/ministerial technology platforms,One base",thus achieving a number of R&D results with high market values and formulating more than 50% of the national standards and quota control for nonferrous metal industry.

科技创新平台R&D platform

硅基材料制备技术国家工程研究中心
National Engineering Research Center for the Technology of Silicon-Based Materials
国家金属采矿工程技术研究中心
National Research Center of Metal Mining Engineering Technology
国家有色冶金机电产品质量监督检验中心
National Nonferrous Metallurgical Electromechanical Product Quality Supervision and Inspection Center
金属矿山安全技术国家重点实验室
State Key Laboratory of Safety Technology of Metal Mines
金属非金属矿山重大灾害事故分析鉴定实验室
Major Disaster Accident Analysis and Identification Laboratory of Metal and Non-metal Mines
矿用电梯安全准入分析验证实验室
Mine Elevator Safety Laboratory
国家技术标准创新基地（有色金属）
China Nonferrous Metals Industry Association: National Technical Standard Innovation Base of Nonferrous Metals
金属冶炼重大事故防控技术支撑基地（有色金属）
Technological Support Base for the Prevention and Control of Serious Accidents in the Metallurgical Industry (Nonferrous Metals)

中国恩菲博士后工作站
China ENFI Postdoctoral Programme Workstation
中硅高科博士后工作站
SINOSICO Doctoral Programme Workstation
中国恩菲院士工作站
Academician Workstation

恩菲研究院
Administration Division/ENFI R&D Institute
矿业经济研究院
Mining Industrial Economy Research Institute
中冶低碳技术研究院
MCC Institute of Low-Carbon Technology

国家金属非金属矿山尾矿安全技术中心
National Metal/Non-metal Mine Tailings Safety Technology Center
国家金属非金属地下矿山安全工程技术研发中心
National Engineering and Technology R&D Center for Safety of Metallic & Non-metallic Underground Mines
金属矿山及有色冶金安全技术创新中心
Metal Mine and Nonferrous Metallurgy Safety Technology Innovation Center
国家安全生产长沙矿山机电检测检验中心
National Safety Production Changsha Mine Electromechanical Testing and Inspection Center
金属非金属矿山安全工程技术研究中心
Metal/Non-Metal Mine Safety Engineering Technology Research Center
工信部工业节能与绿色发展评价中心
Senior Deputy Director/Industrial Energy Conservation and Green Development Evaluation Center, MIIT
北京市设计创新中心
Beijing Design Innovation Center
北京市企业技术中心
Beijing Technology Center for Enterprises
中国矿业信息化协同创新北京市工程研究中心
Beijing Engineering Research Center of China Mining Innovation Center (CMIC)
河北省钽系材料工程研究中心
Scandium-group Materials Engineering Research Center in Hebei Province
河南省多晶硅工程技术研究中心
Polysilicon Engineering Technology Research Center in Henan Province
河南省超高纯硅材料工程研究中心
Ultra-pure Silicon Materials Engineering Research Center in Henan Province
中国有色金属工业机电产品质量监督检验中心
Electromechanical Product Quality Supervision and Inspection Center of China Nonferrous Metals Industry
湖南省智能矿山工程技术研究中心
Intelligent Mine Technology Center of Hunan Province
深井开采及膏体充填工程技术中心
China Nonferrous Metals Industry Association: Deep Mining and Paste Filling Engineering Center
重金属底吹熔炼工程技术研究中心
Heavy Metals Oxygen Bottom-blowing Smelting Engineering Center
红土型镍矿冶金工程技术研究中心
Laterite-Type Nickel Smelting Engineering Center
硅基材料检测与服务平台
Silicon-Based Material Testing and Services Platform
中冶太阳能光伏光热工程技术中心
MCC Solar Energy Photovoltaic-Thermal Engineering Center
中冶垃圾焚烧发电工程技术中心
MCC Waste Incineration Power Generation Engineering Center
中冶稀土冶金清洁生产工程技术中心
MCC Rare Earth Metallurgy CP (cleaner production) Engineering Center
中国有色行业海洋采矿重点实验室
China Key Laboratory for the Oceanic Mining of Nonferrous Minerals
露天边坡、尾矿库（坝）稳定性监测实验室
Open-pit slope, Tailings Pond (Dam) Stability Monitoring Technology Laboratory



八个国家级平台

三站

二十三个省部级平台

科技创新成果R&D achievements

近年来获得的国家科技进步奖

项目名称	获奖等级	颁奖日期
底吹熔炼—熔融还原—富氧挥发连续炼铅新技术及产业化应用	二等奖	2016
红土镍矿生产高品位镍铁关键技术与装备开发及应用	二等奖	2016
复杂难处理镍钴资源高效利用关键技术与应用	一等奖	2012
多晶硅高效节能环保生产新技术、装备与产业化	二等奖	2012
金川镍矿高应力特大型矿床连续高效开采综合技术	二等奖	2012
复杂难采深部铜矿床安全高效开采关键技术研究与应用	二等奖	2011
富氧顶吹铜熔池熔炼技术	二等奖	2007
氧气底吹熔炼-鼓风炉还原炼铅(SKS)新工艺及工业化装置开发研究	二等奖	2005
金属矿床无废害开采技术	二等奖	2004
膏体充填新技术的研究与工业化	二等奖	2001
地下矿山高阶段强化开采新工艺综合技术研究	二等奖	2001

2001年之前共获得国家科技进步奖23项（略）

千余项 国家级、省部级奖项,其中国家级 158 项,国家科学技术进步奖 36 项。

获中国专利奖 11 项,包括中国专利金奖、中国专利银奖各 1 项; 国家优质工程奖 16 项,国家优秀工程设计奖 25 项,国家优秀工程咨询成果奖 21 项,国家优秀工程总承包奖 4 项。 拥有授权专利 两千余件,其中发明专利 近千件。 年均申请专利 500 件,其中发明专利占 60% 以上。

More than 1000 national and provincial prizes, including 158 national awards and 36 National Scientific & Technological Progress Awards.

Received 11 Chinese Patent Awards, including 1 Chinese Patent Gold Award and 1 Chinese Patent Silver Award each;

16 National Quality Engineering Award, 25 National Prizes of Excellent Engineering Design, 21 National Outstanding Engineering Consulting Achievement Awards, 4 National Outstanding EPC Project Awards.

More than 2000 granted patents including 1000 invention patents. Annual patent application more than 500 with invention patents accounting for more than 60%.



中国恩菲秉承“遵章守法, 信守承诺, 提升质量, 保护环境,
健康安全, 持续改进”的QHSE管理方针,
建立并持续改进QHSE管理体系,
以确保产品和服务实现过程符合法律法规要求, 满足客户需要。

ENFI, acting in the policy of “abiding by laws and regulations, sticking to commitment, enhancing quality, protecting environment, emphasizing health and safety and pursuing improvement”, has established and will keep on improving a QHSE management system to ensure that the process of providing product and service complies with laws and regulations and meets the needs of clients.



环境管理体系认证证书
Environmental Management Systems Certificate



质量管理体系认证证书
Quality Management Systems Certificate



职业健康安全管理体系认证证书
Occupational Health and Safety Management Systems Certificate

中国恩菲现有中国工程院院士 1名, 全国劳动模范 2名, AusIMM合格人 3名,
全国工程勘察设计大师 3名, 全国有色金属行业工程设计大师 19名, 国家百千万人才工程入选者 3名,
享受政府津贴专家 90名, 中国五矿首席科学家 1名、首席技术专家 2名,
各类国家注册执业人员 605名, 高级职称以上人员 870名。

ENFI has 1 academician of China Engineering Academy, 2 National Model Workers, 3 AusIMM Fellows, 3 National Design Masters, 19 Design Masters in Non-ferrous Metal Industry, 3 Candidates for the National New Century Talents Project, 90 experts receiving government allowances, and 1 principal scientist and 2 principal experts with Minmetals, 605 national registered engineers in a variety of specialties and 870 senior engineers.



于润沧 Yu Runcang
中国工程院院士
Academician of Chinese Academy of Engineering



王忠实 Wang Zhongshi
全国劳动模范 National Model Worker



严大洲 Yan Dazhou
全国劳动模范 National Model Worker



蒋继穆 Jiang Jimu
全国工程勘察设计大师
National Design Master



陈登文 Chen Dengwen
全国工程勘察设计大师
National Design Master



于长顺 Yu Changshun
全国工程勘察设计大师
National Design Master



刘育明 Liu Yuming
全国有色金属行业设计大师
Design Masters in Non-ferrous Metal Industry



李东波 Li Dongbo
全国有色金属行业设计大师
Design Masters in Non-ferrous Metal Industry

中国恩菲为员工提供具有成长性的工作平台, 舒心和谐的工作氛围, 多元开放的学习网络以及具有竞争力的薪酬福利。
员工成就幸福, 组织和谐顺畅, 企业科学发展。

ENFI aims at providing the staff with promising work platform, harmonious and comfortable working atmosphere, open and multiple knowledge access and superior welfare, so that its staff enjoy happiness and achievement, its management is harmonious and smooth and the company develops scientifically.



企业使命Mission

点资源之石，成事业之金
Turn a stone of resource
into a gem of undertaking



核心价值观Core value

人本卓越 People-oriented, excellent
道德共享 moral, sharing
开放与包容 open and tolerant
效率与效益 effective and profitable

企业风格Style

快速响应 信守承诺 求真务实 协作进取
Responsive, committed,
practical and pragmatic,
cooperative and progressive

企业精神Spirit

世界一流的使命担当、自主创新的引领作用、
问题导向的工作思维、精益求精的品质坚守、
敢于胜利的奋斗精神。
Striving to become a world-class company,
taking a leading role in self-independent
innovation, developing a problem-solving
mindset, pursuing perfection in quality and
cultivating the striving spirit for success.

经营理念Philosophy

诚信社会为本 客户满意为荣
Corporate integrity
and customer's satisfaction



中国恩菲积极履行社会责任。

- 科学发展责任 Responsibility for Scientific Development
- 科技创新责任 Responsibility for Technological Innovation
- 环境保护责任 Responsibility for Environmental Protection



原国务院总理李克强盛赞中国恩菲设计的缅甸达贡山镍矿项目，称该项目的设计充分考虑到了当地人民的生活习惯和风俗。
Former Premier Li Keqiang praised ENFI's design of the Myanmar Tagaung Tuang Nickel Mine project, stating that the design fully takes into account the local people's customs and way of life.



冬瓜山铜矿实现废石不出坑、废水及固体废弃物的零排放，充分体现“人文矿山”和“绿色矿山”的特点。

The Dongguashan copper mine has realized zero emission of waste water and solid waste, with no discharge of waste rock from the underground, which fully features environmental-friendliness.

- 安全生产责任 Responsibility for Safety in Production
- 员工成长责任 Responsibility for Employee Growth
- 社会和谐责任 Responsibility for Social Harmony



参与优秀士兵父母逛京城活动
Support to the Activity of Excellent
Soldiers Parents Touring Beijing



总承包四川古路村索道项目助力山区精准脱贫
The Sichuan Gulu Village Cableway Project, EPC
project, contributes to targeted poverty alleviation
in mountainous areas.



项目驻地开展义工服务
Volunteer Service in the Location
of the Project



项目现场举行应急演练
Emergency drilling held on the
project site



坚持开展志愿服务活动
Persisting in Volunteer Service



新员工现场实习
On-site Training of New
Employees



恩菲业务点 ENFI business distribution

1	I _A																	0																							
1	1	H																	2																						
		1	00794(17)																	2																					
		3	Li	4	Be																	10																			
		6	941(2)	9	012182(3)																	18																			
		11	Na	12	Mg																	18																			
		22	989776(2)	24	3050(6)																	36																			
		19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr				
		39	0983(1)	40	078(4)	44	95919(9)	47	867(1)	50	9415(1)	51	9961(6)	54	93809(9)	55	815(2)	58	93329(9)	59	6934(2)	63	546(3)	65	39(2)	69	723(1)	72	64(1)	74	92169(2)	78	96(3)	79	901(1)	83	80(1)				
		37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe				
		85	4678(2)	87	62(1)	88	90583(2)	91	224(2)	92	90638(2)	95	94(1)	97	99	101	07(2)	102	90559(2)	106	42(1)	107	8682(2)	112	411(8)	114	818(3)	118	710(7)	121	769(1)	127	40(3)	129	99147(3)	131	293(6)				
		55	Cs	56	Ba	57-71	La-Lu	72	Hf	73	Ta	74	W	75	Re	76	Os	77	Ir	78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi	84	Po	85	At	86	Rn				
		132	90545(2)	137	327(7)	镧系		178	49(2)	180	9479(1)	183	84(1)	186	207(1)	190	23(3)	192	217(3)	195	078(2)	196	96655(2)	200	59(2)	204	3833(2)	207	211)	208	98038(2)	209	210)	210)	222)						
		87	Fr	88	Ra	89-103	Ac-Lr	104	Rf	105	Db	106	Sg	107	Bh	108	Hs	109	Mt	110	Ds	111	Rg	112	Uub																
		7	钫	镭	锕系		钆*	铈*	镨*	铈*	镧*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*	铈*						
		(223)	(226)	(227)		(261)	(262)	(263)	(264)	(265)	(268)	(269)	(272)	(277)																											
		57	La	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb	71	Bu										
		138	9055(2)	140	116(1)	140	90765(2)	144	24(3)	1147)		150	36(3)	151	964(1)	157	25(3)	158	92534(2)	162	30(3)	164	93032(2)	167	239(3)	168	93421(2)	173	94(3)	174	967(1)										
		89	Ac	90	Th	91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Md	102	No	103	Lr										
		镧		铀	钍	镤	钚	镅	镆	锿	铈	镧	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈	铈						
		(227)	(232)	(231)	(238)	(237)	(243)	(244)	(247)	(251)	(252)	(257)	(261)	(265)	(269)	(271)	(274)	(277)	(281)	(285)	(289)	(293)	(297)	(301)	(305)	(309)	(313)	(315)	(317)	(321)	(325)	(329)	(333)	(337)							

IVANHOEMINES NEW HORIZONS	adani	RioTinto	posco
CERIA NUGRAHA INDOTAMA	GLENCORE	nyrstar	eramet
MMP Mitra Murni Perkasa	bhpbilliton	VALE	FRONTIER LITHIUM
AngloAmerican	CODELCO	ENAMI	NORNICKEL
HATCH™	Outotec	MECS	SNOWDEN
鞍钢集团 ANSTEEL	JINCHUAN金川	江铜集团	CNMC 中国有色集团
BNMC 白银有色集团股份有限公司	力勤LYGEND	盛屯矿业 CHENGTON MINING	山东黄金集团有限公司 SD-GOLD
中国有色	BAOWU中国宝武	华友钴业 HUAYOU COBALT	紫金矿业 ZIJIN MINING
广晟有色金属股份有限公司 RISING NONFERROUS METALS SHARE CO., LTD.	中金岭南 Nonfermet	JDC 金堆城钼业集团有限公司 JINCHENG MOLYBDENUM GROUP CO., LTD.	CATL 宁德时代
NING 宁东集团	YGMG 云南黄金集团	中国雄安集团 CHINA XIONAN GROUP	中条山集团 ZHTS Non-Ferrous Metals Group
内蒙古矿业集团 Inner Mongolia Mining Group	新疆有色	河南豫光金铅股份有限公司 HENAN YUGUANG GOLD AND LEAD CO., LTD.	西部矿业 WESTERN MINING
中国铝业公司 CHINALCO	国城矿业股份有限公司 GUOCHENG MINING CO., LTD.	中国节能环保集团 China National Environmental Protection Corp.	建龙集团 JIANLONG GROUP
紫金 ZHAO JIN	云南锡业股份有限公司 YUNNAN TIN COMPANY LIMITED	四川路桥 SABG	NORINMINING 北方矿业
成都环境集团 CHENGDU ENVIRONMENT GROUP	深圳能源 SHENZHEN ENEAGY	更多……	

中国恩菲与合作伙伴共享双赢，实现彼此持续的成长。
Sharing win-win situation with cooperative partners.
Achieving mutual sustainable development.