

社会责任报告



东方电气
DONGFANG ELECTRIC

2016

社会责任报告
SOCIAL
RESPONSIBILITY
REPORT

创新 协调 绿色 开放 共享

2016

SOCIAL RESPONSIBILITY REPORT

INNOVATION
COORDINATION
GREEN
OPENNESS
SHARING



中国四川省成都市高新西区西芯大道18号

邮编：

611731

网址：

www.dongfang.com

Address:

No. 18, Xixin Avenue, West Hi-tech District,

West Chengde Hi-tech Zone, Chengde City,

Sichuan Province,

611731

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SOCIAL
RESPONSIBILITY
REPORT

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集团简介

中国东方电气集团有限公司（简称：东方电气集团）是中央确定的涉及国家安全和国民经济命脉的国有重要骨干企业之一，属国务院国资委监管企业，是全球最大的发电设备制造和电站工程总承包企业集团之一。发电设备产量累计超过5亿千瓦，已连续13年发电设备产量位居世界前列。

东方电气集团起步于上世纪50年代末期，通过几代人的不懈奋斗，孕育出“大三线建设精神”、“求实、创新、人和、图强”的企业精神和“东汽精神”，用跌宕起伏的创业发展史铸就了由民族工业走向世界舞台的辉煌。以“中国装备，装备中国；中国装备，装备世界”的气概铸就了装备制造业的国之重器。

创新驱动发展，东方电气集团是国家首批创新型试点企业、国家技术创新示范企业、国家级企业技术中心、国家能源大型清洁能源高效发电设备研发中心、海外高层次人才创新创业基地，拥有国家重点实验室、院士工作站、博士后科研工作站，建立了以中央研究院为核心的面向未来、基于全球资源、具有自主知识产权以及面向市场的企业产品研发多级创新体系，助推企业可持续发展。

践行“创新、协调、绿色、开放、共享”发展理念，东方电气集团积极发展大型清洁能源，拥有“核电、火电、水电、气电、风电、太阳能”全产业链研制能力，可批量研制1000MW、1750MW等级超超临界火电机组、1000MW级水轮发电机组、重型燃气轮机设备、风电设备、太阳能电站设备、大型环保及水处理设备、电力电子与控制系统、新能源电池及储能系统、智能装备等产品。

紧密围绕“一带一路”建设，东方电气集团大力开拓海外业务，主营业务和服务出口到近70个国家和地区，创造了中国发电设备出口历史上若干个第一，连续23年入选ENR全球250家最大国际工程承包商之列。

展望未来，东方电气集团将秉承“共创价值、共享成功”的宗旨，以李克强总理嘱托集团“打造中国的GE”为宏愿，努力创建成为具有国际竞争力的世界一流重大技术装备及服务优秀供应商，以绿色动力驱动中国和世界经济发展。

核心数据

2016年 核心数据



发电设备
3033.81万千瓦



员工总数
22375人



新增专利
372项



营业收入
370.37亿元

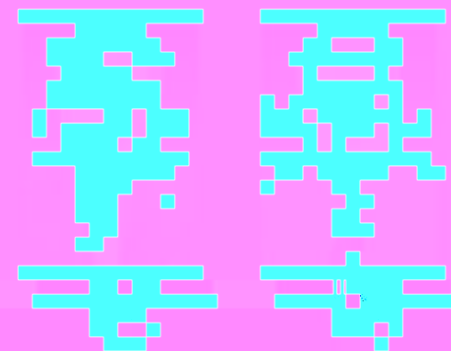
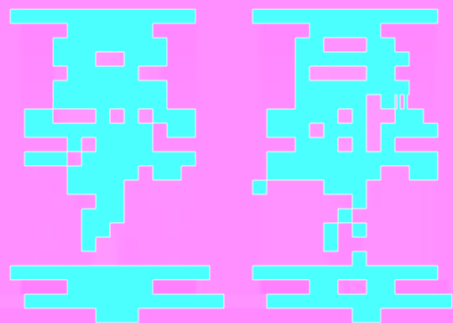


科技投入
15.26亿元



纳税总额
30.44亿元





欧阳英鹏

外部董事

孙汉虹

外部董事

刘茂勋

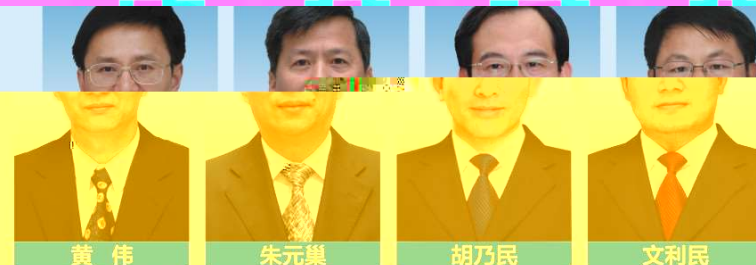
外部董事

朱稳根

外部董事

何 杨

职工董事



黄 伟

党组书记
副总经理

朱元巢

党组成员
副总经理

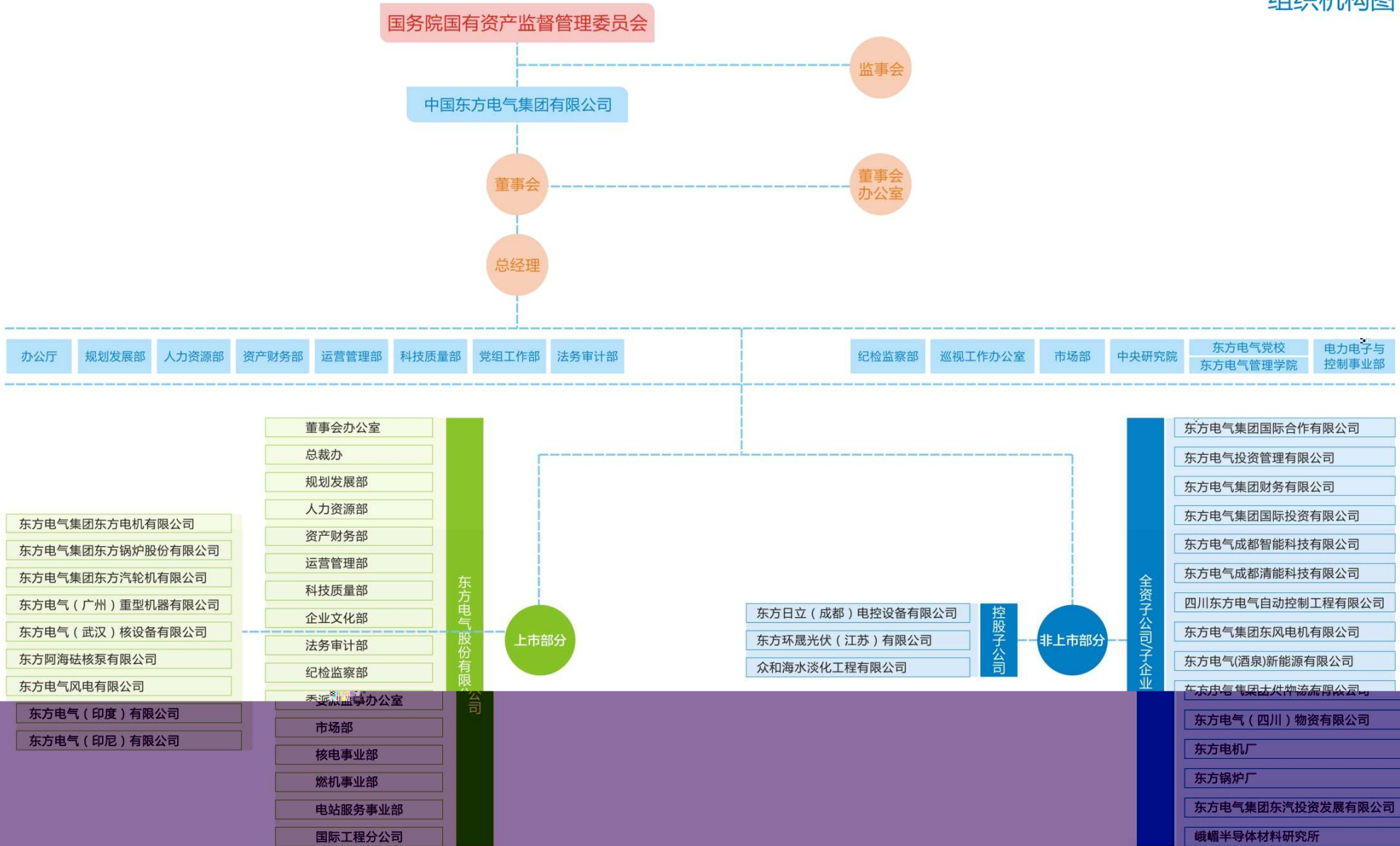
胡乃民

党组成员
党纪检查组组长

文利民

党组成员
总会计师

组织机构图



产业分布图

四川德阳

东方电气集团东方电机有限公司
 东方电气集团东方汽轮机有限公司
 东方电气风电有限公司
 东方电气集团东汽投资发展有限公司
 东方阿海法接泵有限责任公司
 四川东方电气自动控制工程有限公司

四川成都

中国东方电气集团有限公司(总部)
 东方电气股份有限公司(总部)
 东方电气股份有限公司国际工程分公司
 东方电气投资管理有限公司
 东方电气集团国际合作有限公司
 东方电气集团财务有限公司
 东方日立(成都)电控设备有限公司
 东方电气成都智能技术有限公司
 东方电气成都清源科技有限公司

四川乐山

东方电气集团东风电机有限公司
 东方电气(乐山)新能源设备有限公司
 峨眉半导体材料研究所

四川自贡

内蒙古

东方电气(通辽)风电工程技术有限公司
 东方电气(呼伦贝尔)新能源有限公司

甘肃酒泉

东方电气(酒泉)新能源有限公司
 东方电气(酒泉)太阳能工程技术有限公司
 东方电气(酒泉)光伏发电科技有限公司
 东方电气(酒泉)太阳能发电有限公司

天津

天津东汽风电叶片工程有限公司
 东方电气(天津)风电科技有限公司
 众和海水淡化工程有限公司

宁夏石嘴山

石嘴山天得光伏发电有限公司

河南灵宝

东方电气河南电站辅机制造有限公司

江苏宜兴

东方环晟光伏(江苏)有限公司

中国



卷首语 PREFACE

2016年，东方电气认真履行中央企业的政治责任、经济责任和社会责任，统筹抓好深化改革、资源整合、集团管控、转型升级、提质增效、依法治企、风险防范等方面工作，在创新发展、协调发展的同时，携手各利益相关方推进绿色发展、开放发展和共享发展，东方电气可持续发展取得新进展。

创新发展引领卓越未来。

发展愿景明晰，公司治理持续完善，商业模式更加多元化，依法治企深入推进。加快推进科技创新体制、机制建设，科技人才、劳动模范、技能大师不断涌现。我们在发展理念、体制机制、商业模式、技术研发等进行全方位、多层次、宽领域的创新，不断推动发展的内生动力和活力的根本性转变。

共享发展引领和谐未来。

坚持安全生产，保障职业健康。保护员工权益，践行“人和”文化。加强效能监察，打造阳光供应链。关注民生发展，实施惠民工程。加强资源禀赋研究，实施产业扶贫。构建长效机制，打造“吕梁山货”品牌，东方电气三名定点扶贫干部荣获2016“感动山西”特别奖。我们以“共创价值，共享成果”为宗旨，与社会共创和谐未来。

协调发展引领持续未来。

优化集团管控模式，实现资源共享和优化配置。做强发电设备制造主业，

开放发展引领共赢未来。

整合海外资源，加强国际产能合作。加大“互联网+”行动，引领高端装备产业协调发展。突破。我们倡导开放，共建“一带一路”。

绿色发展引领美丽未来。

构建绿色制造体系，积极推进循环化改造、节能降耗、资源互补等高端技术，大力发展环保产业和水电、核电、气电、风电、太阳能等清洁能源。在践行总理嘱托，打造“中国的GE”的路上，我们坚持走绿色、低碳、循环发展之路。

绿色动力，驱动未来。东方电气的行动永不止步，希望社会各界可以检视我们的成果和不足，让我们一起迈向可持续发展的未来！

创新篇

Guide the development with management innovation
Brighten the future with technological innovation

管理创新引领发展
科技创新驱动未来

聚焦12345战略

为应对严峻内外部形势，集团公司新班子确定了“逆势求进、创新求变、转型升级、做强做优”的发展思路，明确了12345战略。

1/ 做强一个产业，实现装备制造升级
3/ 推进三个新领域：技术、人才、服务

2/ 开拓两个市场，提升两种资源

4/ 推进四个转变，打造四个百亿产业

“做强一个产业，实现装备制造升级”

打造四个百亿产业：在做强做优水、火、核、气的基础上，打造新能源（风电、太阳能光伏、光热等）、国际板块（国际工程、国际贸易等）、现代服务业（电站、金融等）和新兴成长产业（分布式能源、海洋装备、储能等）四个百亿产业。



5/ 提升五大能力，实现三大目标

Innovation

运营管理不断优化

整合优化市场资源

加强集团公司国际业务资源统筹协调，对集团驻外机构、境外子公司及境外电站服务业务管理模式进行了优化调整。对市场开发、项目执行和售后服务资源进行了整合，形成集团市场合力。



不断夯实基础管理

理顺了综合计划、预算、劳动用工分配等基础管理工作，强调从严执行制度，强调完善内控体系，建立了财务、市场、质量、经济运行和审计等系列工作例会制度，推动工作落实。

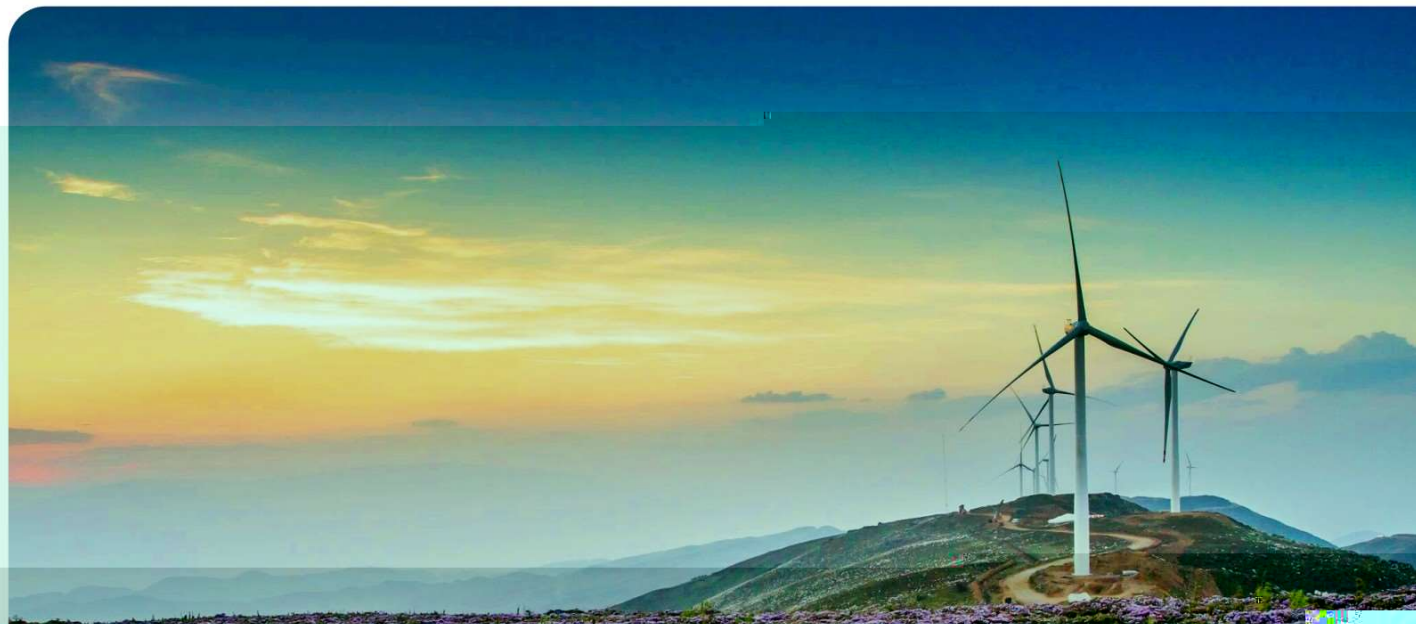
持续改进质量工作

出台进一步加强质量管理工作十条决定，组织开展“质量万里行”、走访华能安源、大唐抚州等电厂，深入开展“质量月”活动，全体干部职工对质量的“敬畏”之心不断增强。



健全采购管理体系

建立系统的供应商管理体系，成立了集中采购管理中心，推进集中采购工作，2016年，集中采购管理平台上线，全面搭建集中采购，集中采购率超过80%。



主业技术持续进步



自主研制成功三代核电“华龙一号”蒸汽发生器

2016年，东方电气研制的全球首台“华龙一号”219吨蒸汽发生器顺利通过出厂水压试验。福清核电5号机组是我国具有自主知识产权的三代核电技术“华龙一号”全球首堆示范工程。

水电机组研制创造多个世界记录

2016年，东方电气研制的巴西杰瑞水电站36兆瓦贯流式水轮机组成功投产，创造了“世界上最大贯流式机组水电站、世界贯流式机组单机容量最大、世界贯流式水电站转轮尺寸最大、世界贯流式水电站装机数最多”的“四个之最”。杰瑞水电站输出电能稳定供给巴西当地电网，有效缓解能源紧缺问题，促进当地经济社会的快速发展。杰瑞水电站每年的发电量，相当于每年可以节约396万吨标准煤，减少二氧化碳排放量987万吨。



启动研发更加清洁高效超高参数百万千瓦二次再热示范机组

东方电气研发的国内首台超超临界二次再热660兆瓦机组在江西华能安源电厂投运，标志着东方电气新一代高效、清洁燃煤机组取得了全新突破。为持续提升燃煤机组的升级，东方电气启动了1000兆瓦等级35MPa/615°C/630°C/630°C二次再热主机技术研发，该技术于2016年通过了中国国际工程咨询公司组织的评审会。



完成5兆瓦优化型海上风力发电机组技术升级

2016年对5兆瓦江苏如东项目样机进行技术升级改造，技术改造和升级后的5兆瓦优化型海上风力发电机组，具备IEC I C类风场的适应能力，可具备抗台风设计，风轮直径140米，单位千瓦扫风面积为3.079平方米，项目机型在同类的I类风区中位居前列。技术升级改造后的机组于2016年8月23日并网运行，机组运行逐步稳定，连续数月可利用率达95%以上，机组成熟度和技术水平已经具备初步商业化的基础。



新产品研发稳步推进

中央研究院加快科研成果转移转化和产业化步伐

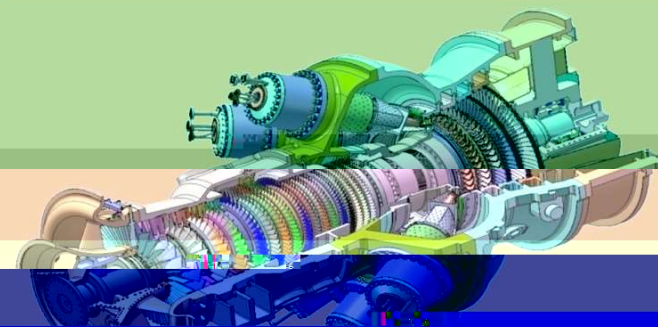
燃料电池方面，备用电源系统通过工信部泰尔实验室检测，获得市场通行证，并具备了小批量生产能力。锂电池方面，兆瓦级钛酸锂储能电池在内蒙古通辽风场示范运行。智能制造和特种机器人方面，锅炉集箱管座焊接机器人、人系统完成研发移交用户，东汽叶片数字化车间项目按照计划加速推进，以神华方州电厂、榆能横山电厂等为依托的火电机组健康智慧管理示范项目加快推进。光伏逆变器方面，高性能低成本三电平光伏逆变器在国家级检测中心开展效率认证实验，效率达到领跑者计划要求，处于行业第一梯队，掌握第五代IGBT的产业化技术，实现了第五代IGBT样品制备，样品性能接近国际领先水平。电驱动方面，100千瓦船舶电机驱动控制器完成样机研发，即将进行满功率试验；电动汽车DC/DC模块、60千瓦和100千瓦永磁电机控制器完成优化设计，形成小批量供货能力。



5千瓦燃料电池备用电源系统

核电转子超声无损检测机器人

爬行式焊接机器人



5兆瓦优化型海上风力发电机组技术取得突破

东方电气研发的国内首台超超临界二次再热660兆瓦机组在江西华能安源电厂投运，标志着东方电气新一代高效、清洁燃煤机组取得了全新突破。为持续提升燃煤机组的升级，东方电气启动了1000兆瓦等级35MPa/615°C/630°C/630°C二次再热主机技术研发，该技术于2016年通过了中国国际工程咨询公司组织的评审会。



技术改造和升级后的5兆瓦优化型海上风力发电机组，具备IEC I C类风场的适应能力，可具备抗台风设计，风轮直径140米，单位千瓦扫风面积为3.079平方米，项目机型在同类的I类风区中位居前列。技术升级改造后的机组于2016年8月23日并网运行，机组运行逐步稳定，连续数月可利用率达95%以上，机组成熟度和技术水平已经具备初步商业化的基础。

协调篇

Forge ahead with our customers and
share the mutual profits with investors

与客户携手前行，
与投资者实现共赢

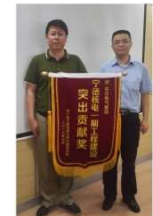
用心服务客户 赢得真情回馈



东方电气各个项目团队精湛的技术水平和认真负责的工作态度赢得了客户的一致好评，受到多次表彰。



东莞中电第二热电厂专程发来感谢信



荣获宁德核电一期工程“突出贡献奖”

Coordination

与投资者充分沟通 共享发展成果

以投资者需求导向 持续合规信息披露

2016年，东方电气共完成168次信息披露，各项工作按计划



168

以投资者需求为导向，持续合规信息披露，2016年，东方电气共完成168次信息披露，各项工作按计划

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项议案

17

项议案

事会议，审议35项议案；召开9次专业委员会，共审议17项议案；召开了两次股东会议等。

根据公司规范运作要求，深入开展内控建设，规范关联交易管理，实现合规运行。



独立董事参观东方重机

多渠道向投资者 体现上市公司诚信

20亿



东方电气多年坚持召开业绩说明会，注重定期报告披露后的投资者沟通，不断丰富投资者关系管理活动形式，切实做好中小投资者利益保护，注重与行业协会及媒体良好沟通，更精准把握投资者关注重点。2016年，东方电气共完成168次信息披露，各项工作按计划

绿色篇

Harness cleaner energy to preserve global climate balance
Speed up innovation to ensure a low carbon community

绿色能源 节能减排

创新环保低碳运营

潜心发展绿色能源

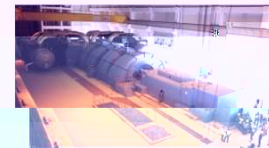
■ 燃机节能减排效益



■ 水电节能减排效益



减排放到50万吨，可装备消纳风电、太阳能等清洁能源4500兆瓦能力。



■ 核电节能减排效益

东方电气研制的1000兆瓦级核电机组成功投运3台，每年可减少煤耗共计约12299万吨，减排二氧化碳32220万吨，二氧化硫105万吨，氮氧化物9.2万吨。



■ 风电节能减排效益

东方电气2016年在中国市场新增风电机组503.6MW，每年可



Green

实施综合节能改造

■ 光煤互补联合循环

2016年，山西国金电力有限公司2号机组顺利投运。该项目采用东方电气研发设计的国内首套50兆瓦光煤互补联合循环发电机组。该机组联合循环发电效率达58%，较传统燃煤机组提高10%。



完成常熟2号机组的通流改造，改造前参数为24.2Mpa/536°C/566°C，改造后参数升为24.2Mpa/566°C/566°C，三缸效率都得到提升。



后燃器达到70%负荷下运行时，煤耗设计值较改造前下降417千焦/千瓦时，煤耗降低15克，改造后供电煤耗达到305克，低于国家煤电节能减排升级与改造行动计划要求，这也是国内600兆瓦高效亚临界机组首次实现煤耗降低。

和产生7.4千克的氮氧化物计算，50兆瓦中等规模光热电站每年

可减少二氧化碳排放1.2万吨，减少氮氧化物排放1.2吨。



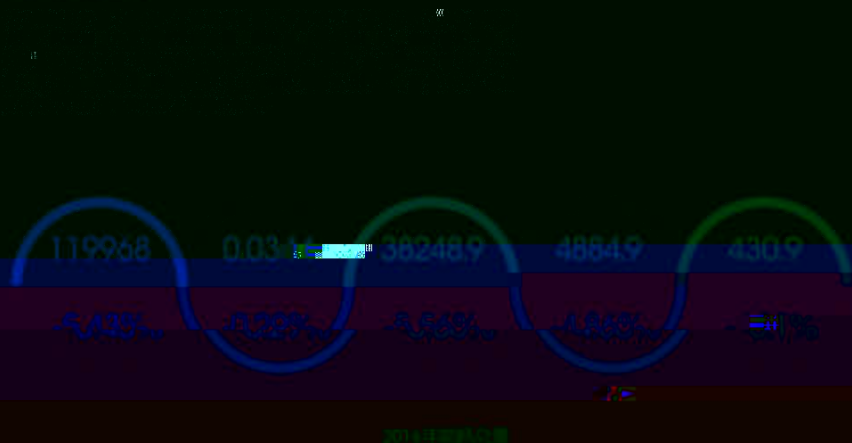
■ 环保设备改造减排

2016年，东方电气完成了多个环保设备的改造，提高了环保设备的运行水平，得到了业主的认可。



节约优化资源使用

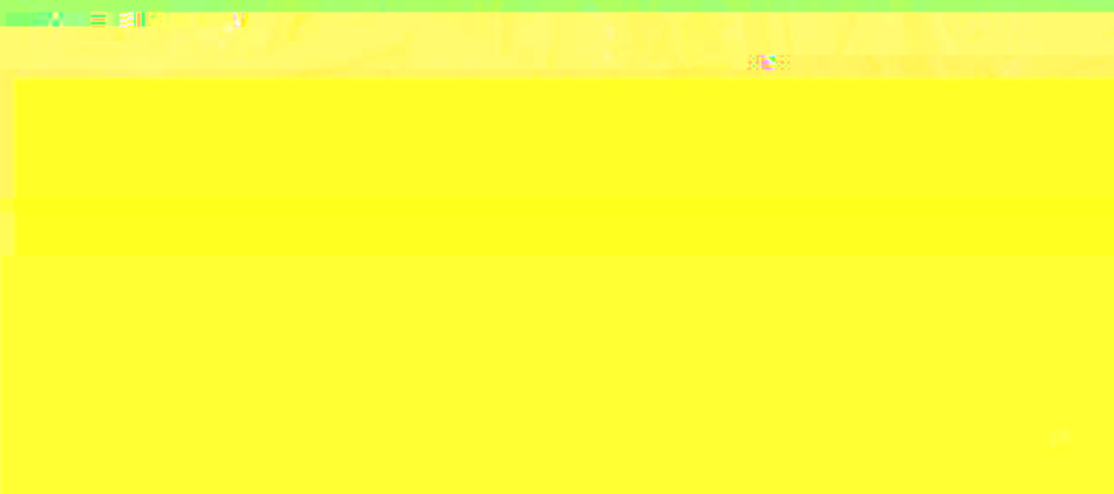
燃料消耗持续下降



2016年燃料消耗量

水利资源合理使用

严格按照国家相关法规标准，积极应用节水新技术、新工艺和新装备；完善生产用水和非生产用水计量，强化数据分析，为制订管控措施和



排放防治合法合规

废水废气达标排放

秉持“环境友好”社会责任理念，东方电气严格遵守《环境保护法》、《大气污染防治法》等法律法规及环境管理体系要求，修订完善了环保管理制度，落实重要环境因素的相关防范控制措施，定期开展环境监测，组织环保专项检查，环保设备设施有效运行，废水、废气等污染物达标排放。

排放量

2016年排放种类及数量



开放篇

Ride b&r wave to further open up
Reinforce branding by living up to responsibilities overseas

一带一路开放发展
海外履责树立品牌



Openness

推进结构升级 分区定策开拓海外市场

优化市场布局 传统市场挖掘取得新成果

2016年，签订印尼佳蒂格德2×56兆瓦水轮发电机组合同，将首次为印尼提供水力发电设备。签订印尼卡尔腾2×100兆瓦火电EPC项目，巩固了东方电气在印尼火电市场的优势。签订孟加拉S4联合循环1×125兆瓦项目汽轮机合同和帕亚拉一期2×69兆瓦汽轮机及其配套辅机设备合同，继续参与孟加拉电力基础设施建设。



突围新兴市场 多元化策略成为敲门砖

根据新兴市场经济发展水平、资源禀赋等情况，采取外贸和总承包方式，带动自身和国内其它企业进入市场。2016年，签订古巴赫拉杜拉二期50兆瓦风电项目、俄罗斯乌里扬诺夫斯克14×2.5兆瓦风电项目，进入拉美、俄罗斯市场。签订埃塞俄比亚120兆瓦风电总承包项目，是东方电气在海外的第一个风电总承包项目。签订泰国23兆瓦光伏电站总承包项目，实现光伏电站海外总承包零的突破。签订肯尼亚2×250兆瓦项目海轮和枕木协议和商务合同，该项目将迄今为史上



俄罗斯乌里扬诺夫斯克风电项目签约

致力前沿技术研究 先进技术引领高端市场竞争

围绕清洁高效主题，开展高参数、高效率的火电、水电、风电等技术研发，与国际能源技术联盟合作推动清洁能源研究，参与行业技术标准的制定，以全球领先技术参与欧美高端市场竞争。波黑斯坦纳瑞水电站采用世界先进的具有自主知识产权的300兆瓦燃用高水分低热值褐煤循环流化床锅炉技术，具备初步移交条件的瑞典布莱肯风电三、四期项目采用中国首创的混合叶片除冰技术，投运的巴西杰瑞水电站采用世界迄今容量最大的灯泡贯流机组技术。



波黑斯坦纳瑞电站



瑞典布莱肯风电三、四期电站



巴西杰瑞水电站



拓宽商业模式 拓展开放合作

提升品牌价值 扩大国际影响力

与中央企业“强强联合”编队出海

2016年，东方电气获得“中巴经济走廊”首个水电投资项目供货订单——巴基斯坦卡洛特4×180兆瓦混流式水轮发电机

探索多种海外项目经营模式

2016年，波黑斯丹纳瑞水电站开始执行5年运行维护服务合同，代表东方电气集团开启“EPC+运行维护”经营模式，实现了中国制造、金融支

以西博会为平台 加强与国际政要的交流

第十六届中国西部国际博览会（西博会）期间，波黑塞尔维亚共和国总统多迪克和几内亚总统孔戴到东方电气访



共同寻求能源建设的合作机会。



建设标杆项目 以“精品”提升品牌影响力

坚守“建一座电站，树一座丰碑”、“24小时服务”和“持续改进”理念推进项目执行和后期服务。我们凭借出口巴西杰瑞水电站22台世界迄今单机容量最大的75兆瓦灯泡贯流式水电机组项目，被业主授予唯一的“优秀供货商”称号，并荣获的“2016年度越南政府评为“最佳发电厂”。

亚洲品牌500强
113位

ENR全球最大
250家国际承包商

107位

2016年，东方电气位列亚洲品牌500强第113位，ENR全球最大250家国际承包商第107位。



瑞典媒体报道大使访问布莱肯农场 非洲和南亚媒体代表团来访

加强品牌宣传 与海外媒体以诚相待

西博会期间，来自非洲和南亚32个国家共35名媒体记者到东方电气参观采访，加深了对东方电气的了解，为国家间友好的交流与合作助一臂之力。

履行社会责任 提升企业海外口碑

参与项目所在地的道路建设、教育扶贫、医疗援助等公益活动，与当地保持良好的公共关系。在越南，为支持茶荣省扶贫帮困工作和当地教育事业，公司向当地扶贫基金捐款上亿越南盾，用于帮助那些居无定所的

融入海外当地发展 做负责任企业公民

属地化分包和采购

持续推进属地化分包和采购，带动当地的经济的增长。

印尼卡尔滕火电
 项目分供总价约
357.4
 万美元

瑞典布莱肯四期
 风电项目分供总价约
226.6
 万美元

加大属地化用工

积极鼓励项目部使用项目所在国的社会人力资源，截止2016年底，海外工程项目聘用的外籍员工共计322

人，其中本地员工100人。项目部在用工方面，始终坚持“属地化用工”原则，在条件允许的情况下，优先聘用当地员工，带动当地就业，为项目所在国经济和社会发展做出积极贡献。

支持当地经济发展

2016年，东方电气海外共10台机组投产发电，单年投产机组容量达372.5兆瓦，稳定运行的机组源源不断地为项目所在国的经济、社会发展提供电力资源，缓解项目所在国的用电紧张情况。



越南沿海一期电厂



越南国家电力公司感谢信



中国驻埃塞俄比亚大使腊湖凡赴吉布3现场指导工作



东方电气吉布3项目部积极参与海外履责

由东方电气机电总承包的埃塞俄比亚吉布3水电站项目是目前为止我国出口的最大水电站项目，共10台机组，总装机容量1870兆瓦。是当地最大的

部在建设过程中积极履行社会责任，为当地发展作出了突出贡献。

埃塞俄比亚总理为东方电气颁发吉布3水电站纪念碑



支持本地教育



本地化雇佣。项目部坚持“除部分管理和高级技术人员由国内派遣之外，其他职位和人力需求均从本地获取”的政策。截止2016年12月，我公司GIBE III项目部常驻现场中方人员10人，本地雇员25人，安装分包商中方人员80人，本地雇员约为200人，本地雇员约为中方人员2倍多。为埃塞当地人民提供了大量的工作机会，改善了当地人的生活品质与生活水平。

本地化采购。在工程物资和生活物资以及服务采购问题上，项目部坚决执行本地化采购原则“只要是能在埃塞境内采购到的物资和服务，就决不从第三国采购”，每年项目部本地化采购的物资和服务金额都上亿美元。蔬菜食品和生活用品方面，项目部实现了100%的本地化采购。部分施工机械设备和施工材料，项目部及项目分包商也都在可能的范围内实行本地化采购，大大节约了成本。

支持本地教育。吉布3水电站自投产以来，项目部派出团队常驻项目驻地，在项目实施之前，该地区没有公路与外界沟通，极为偏僻，当地百姓生活极为原始，思想极为落后，当地的教学设备及其缺乏，教育资源极端匮乏。我司GIBE 3项目部的现场相关人员积极利用业余时间，为当地偏远地区的山区小学留守儿童提供教育支持。项目部还多次在当地举办中小学图书捐赠活动，为当地教育事业发展做出了积极贡献。

共享篇

Thengtadurpuvethiyaluvethanoor

热心公益心系社会
关爱员工共享发展

精准扶贫暖民心 真帮实扶促发展

自“精准扶贫”工作开展以来，东方电气坚持把扶贫作为民生工作的重中之重，通过实施项目帮扶、产业带动等措施，真帮实扶，帮助贫困群众尽早脱贫。

产业扶贫——产业扶贫基金

向遭遇罕见冰雹灾害的吉县捐资50万元，用于当地苹果种植业的发展。

积极协调所属企业在福利发放、职工培训方面采购吉县苹果、土特产、饮料等农副产品。2016年共计实现采购



促进员工成长 创造快乐幸福生活

员工管理以人为本

人才引进公开透明

通过校园招聘、内部公开招聘、社会公开招聘及通过中介机构引进高层次人才等多渠道补充人员。实行公平、公开、公正的招聘政策，禁止设置民族、种族、性别、宗教信仰等歧视性条款，未设置指定毕业院校、户籍范围等与岗位要求无关的招聘条件；对拟录用人员按规定进行至少7天的公示期，主动接受社会监督，确保招聘工作公开透明。

注重员工职业生涯规划

根据各岗位员工职业生涯规划，分类设计各岗位职业发展通道和路径，通过规范岗位晋升标准，突出岗位能力条件和工作业绩导向，消除晋升中的论出生、论职称、论资历等现象，建立了员工职业发展自我引导和激励机制，为员工自我价值实现创造条件。

岗位工资制、目标收入制、协议工资制及特定功能

辅助工资制、绩效工资制、股权激励作用。严格执行所在地最低工资标准和最低生活保障标准，保障部分特殊员工基本生活。

建立和谐劳动关系

建立员工入职管理、劳动合同管理、岗位晋升管理、绩效考核管理、离职管理等系列制度，根据员工的岗位特征、知识技能、年龄及身体状况、个人专长等因素，适时调整到适合的岗位工作。不能适应岗位工作的员工，提供调整岗位及培训机会。对达到解除劳动合同条件的员工，依法依规解除劳动合同，并按照法律规定支付补偿金。

保障员工休息休假权利

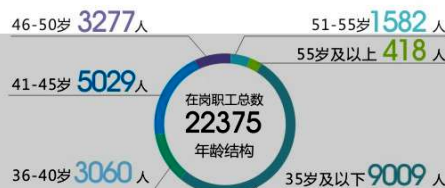
管理制度，对符合休假条件的员工，提供不低于国家规定的休假天数，保障员工休息休假的权利。

不断完善健全薪酬分配制度

实行全员绩效考核，构建以岗位和能力为基础、以绩效为核心的薪酬体系。对各层级经营班子成员实行年薪制、对经营班子成员外的其他在岗人员实行



员工结构



招聘人员结构



职业健康与安全保障



职业健康 体检工作，职业健康应体检率100%。

应急管理 修订完善应急预案，强化预案的培训、演练和持续改进，全年共开展各类应急预案演练70余次。



激励发展 员工培训



为从业人员参加各项社会体检及住房公积金，依法与员工签订劳动合同、聘用协议或用工协议，对离职人员依法赔偿和终止劳动合同，并按规定支付经济补偿金，维护了公司和员工合法权益，促进了公司劳动关系和谐，保障了员工权益。



创造和谐文化氛围

公司秉承“社会、企业、员工和谐统一”价值观，组织了各类文娱、体育活动，丰富了青年员工的业余生活，激发了青年员工的工作热情，得到了广大青年员工的热情响应和积极参与，为青年员工营造了良好的文化生活环境。



东方电机“道德讲堂”活动

东方电机“快乐健康 和谐东电”运动会

东方汽轮机“三八”节女职工趣味活动

东方汽轮机新春环厂跑



东方汽轮机“质量杯”职工运动会

东方锅炉“相爱到永远 携手伴一生”第五届集体婚礼

东方重机摄影俱乐部活动

慰问帮扶困难员工



PROSPECT 展望

展望2017 蓝图绘就 撸起袖子加油干

2017年是实施“十三五”规划的重要一年，也是东方电气深化改革、脱困振兴的关键之年。面对国内外错综复杂的经济形势以及全球产业竞争格局的重大调整，我们将全面贯彻落实党的十八大和十八届历次全会精神，深入学习贯彻习近平总书记系列重要讲话精神，以弘扬“三线精神”、“东汽精神”实现“脱困振兴、二次创业”为目标，以深化改革为动力，以“科技创新、质量立企、成本领先、深化改革、管理提升”五大工程为重点，

坚持解放思想、转变观念、改进作风；坚持抢抓机遇，大力开拓市场；坚持目标导向，圆满完成2017年综合计划和阶段性改革发展任务；坚持加强和改进党对国有企业的领导，全面推进从严治党，以李克强总理嘱托集团“打造中国的GE”为宏愿，努力创建成为世界能源技术装备及服务的优秀供应商，以绿色动力驱动中国和世界经济发展。

和悦共生，以“润”致远。在新的一年里，东方电气将继续发挥“东方人”协同履责之力，以“和”之精神力、“润”之责任感、“商德公约”之道德力，推动事业做强做优，焕新企业发展，开创履责新模式，以实际行动回馈社会，为社会注入更多正能量。

Prospect

2016 SOCIAL RESPONSIBILITY REPORT

About This Report

Following the principles of authenticity, objectivity, timeliness and transparency, Dongfang Electric Corporation has prepared this report to fully disclose its fulfillment of social responsibilities, and the efforts we have made in expediting corporate progress and social sustainable development. For better understanding of this report, "Dongfang Electric Corporation" would be referred to as "DEC Group", "DEC", "The Group" or "We" while "Dongfang Electric Corporation Limited" as "DEC Ltd." for short.

Reporting Period:
2016 fiscal year from 1 January 2016 to 31 December 2016, with some exceptions.

Release Frequency:
on an annual basis

Past releases:

Data Illustrations:
the data included in this report stem from formal documents and statistical report submitted by relevant departments and subsidiaries of DEC Group and reviewed carefully by CSR Leading Group.

Guidelines of the Report:
Chinese Academy of Social Sciences-Corporate Social Responsibility 3.0 (CASS-CSR3.0); Global Reporting Initiative (GRI) Sustainability Reporting Guidelines (G4)

COMPANY PROFILE

Dongfang Electric Corporation (hereinafter referred to as "DEC Group" or "DEC"), one of Central State-owned enterprises (SOEs) as the backbone of the country's economy and having a vital bearing on national security, under direct supervision of State-owned Assets Supervision and Administration Commission of the State Council, is one of the world largest power generating equipment manufacturers and power plant EPC contractors, with the accumulative power equipment capacity output of 303,338 MW, ranked among the top 10 in the world for these 13 consecutive years.

Since 1950s, through unremitting efforts of several generations, DEC Group incited several inspiring spirit, such as "Three line construction spirit", enterprise spirit of "Practical, Innovative, Harmonious and Initiative" and "DTC Spirit". The ups and downs in DEC pioneering history can be deemed as a miniature of the glory in the globalization of Chinese national industry and the aspiration of "Manufacture for China, Manufacture in China, Manufacture in China, Manufacture for the World." made DEC the pillar of the equipment manufacturing industry.

DEC is implementing a strategy of innovation-driven development. As the first batch of national innovation-oriented enterprises, national technology innovation-oriented enterprises, state-level enterprise technical centers, national large-scale clean and efficient power generation equipment R&D centers, as well as the innovation bases for the overseas talents, DEC Group, with its state key laboratory, academician and postdoctoral program, centralized on Central Research Institute to establish a multi-level innovation system for the future-adapted new and common

technologies and that for the market-responsive products, thus boosting its sustainable and stable development.

Practicing the concept of "innovation, coordination, green development, openness and sharing" and actively following the principle of developing clean and efficient energy, DEC possesses the design and manufacturing ability for nuclear, thermal, hydro, gas turbine, wind as well as solar power industry, able to mass-produce 1000MW-1750MW class nuclear power units, 1000MW class ultra-supercritical thermal power units, 1000MW class hydro power units, heavy-duty gas turbines, wind power equipment, solar power equipment, large-scale environmental protection and water treatment devices, power electronics and control systems, renewable battery and energy storage systems, intelligent manufacturing equipment and others.

Embracing "Belt and Road" initiative, DEC Group is making a big push into the overseas market, with equipment and services exported to more than 70 countries and regions, creating a number of the first in Chinese power equipment history and listed among ENR Top 250 International Contractors for consecutive 23 years.

Looking into the future, DEC Group will, adhering to the principle of "a joint endeavor to create value and share success" and guided by the vision of "Become China's GE" messaged by Premier Li Keqiang, make our commitment to become a world leading energy equipment and service supplier with international competitiveness that greenly drives the development of China and world economy.

CORE DATA



Output Capacity of Power Generating Equipment: **30338** MW



Employees: **22375**



New Patents: **372**



Operating Revenue: RMB **37.037** billion yuan



Investment in Science and Technology: RMB **1.526** billion yuan



Tax Payment: RMB **3.044** billion yuan

ORGANIZATIONAL STRUCTURE

SASAC

DEC Group

Head Office

Branches

Head Office

Branches

Head Office

Branches

Head Office

Branches

Head Office

Branches

Head Office

Branches

Head Office

Branches

Head Office

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Head Office

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Head Office

Branches

(DFEM)
Dongfang Boiler Co., Ltd. (DBC)
Dongfang Turbine Co., Ltd. (DTC)
Dongfang (Guangzhou) Heavy Machinery Co., Ltd. (DFHM)
Dongfang (Wuhan) Nuclear Power Co., Ltd.

Department of Assets and Finance
Department of Operation Management
Department of Technology and Quality Control
Department of Corporate Culture

DEC

The

Dongfang Hitachi(Chengdu) Electric Control Equipments Co., Ltd.
Dongfang Huansheng Photovoltaic

Control Subsidiary

Non-listers

Wholly-owned

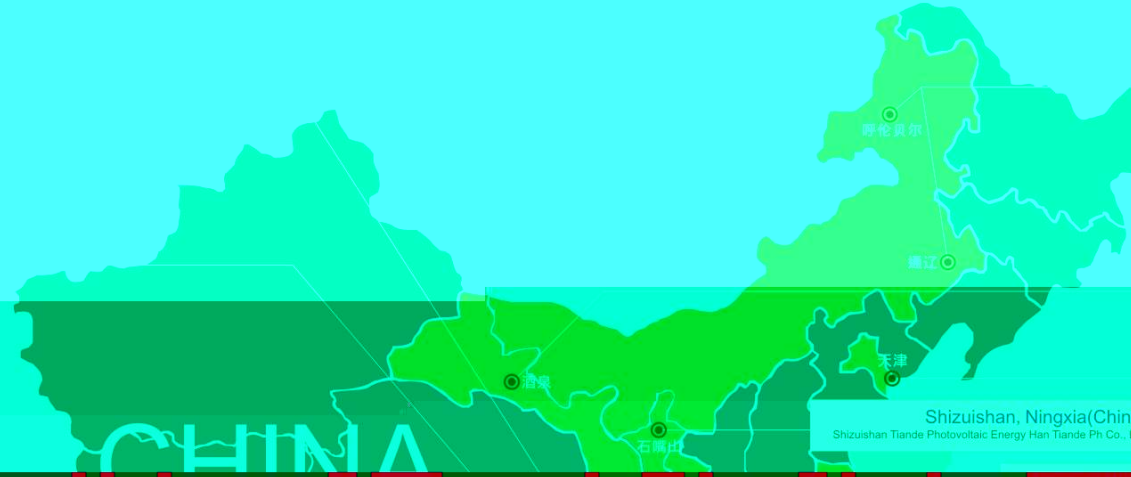
Dongfang Electric Chengdu Intelligent Technology Co., Ltd.
Dongfang Electric Chengdu Clean Energy Technology Co., Ltd.
Sichuan Dongfang Electric Automatic Control Engineering Co., Ltd.

INDUSTRIAL DISTRIBUTION MAP

Deyang, Sichuan(China)
 Dongfang Electric Machinery Co., Ltd.
 Dongfang Turbine Co., Ltd.
 Dongfang Electric Wind Power Co., Ltd.
 DTC Investment & Development Co., Ltd.
 Anava Dongfang Reactor Coolant Pumps Co., Ltd.
 Sichuan Dongfang Electric Automatic Control Engineering Co., Ltd.

Chengdu, Sichuan(China)
 Dongfang Electric Corporation
 Dongfang Electric Corporation Limited
 DEC Ltd. International
 DEC Investment Management Co., Ltd.
 Dongfang Electric International Corporation
 Dongfang Electric Finance Co., Ltd.
 Dongfang Hitachi(Chengdu) Electric Control Equipments Co., Ltd.
 Dongfang Electric Chengdu Intelligent Technology Co., Ltd.
 Dongfang Electric Chengdu Clean Energy Co., Ltd.

Leshan, Sichuan(China)
 DEC Dongfang Electric



PREFACE

In 2016, DEC earnestly fulfilled its political, economic and social responsibilities as a Central SOE and stepped up the overall planning of deepening reform, resources allocation, corporate governance, transformation and upgrade, quality and effectiveness improvement, law-based corporate ruling, risk prevention and others. Following the concept of innovation and coordination development and endeavoring with all relevant parties to conduct a green, open and sharing development, DEC made new progresses on its sustainable development.

Innovative development leads to a bright future

Having had a clear business vision, we continued to perfect the corporate governance, formed a more diversified business model, ruled the company according to the laws and enhanced the transparency in businesses. The establishment of technical innovation system and mechanism was well progressed. Numerous technological talents, model worker, and craftsmen sprung up. We made an all-dimensional, multi-tiered and wide-ranging innovation in the fields of development concept, system and mechanism, business model, technology research and development and others to constantly give the impetus to the fundamental shift of the development motility and vitality.

Coordinative development leads to a sustainable future

We heightened our group governance and achieved the resource allocation and configuration optimization. Our strategy is to strengthen the core business of power equipment manufacturing, to expand the service business and to transform itself to a service-oriented manufacturing corporation. Consequently we sorted out and withdrew from the inefficient capacity and investment, expanded the environmental protection and power electronics industry, and nurtured the emerging businesses such as fuel cells, energy storage systems, and industrial robots. We will, by matching with "Made in China 2025" and "Internet Plus" action plan, keep with the times to take the lead in the coordinative development of high-end equipment manufacturing industry.

Green development leads to a beautiful future

We earnestly fulfilled our political, economic and social responsibilities as a Central SOE and stepped up the overall planning of deepening reform, resources allocation, corporate governance, transformation and upgrade, quality and effectiveness improvement, law-based corporate ruling, risk prevention and others.

steadily directing ourselves to a green, low-carbon, sustainable development path.

Sharing leads to a harmonious future

Adhering to the philosophy of safety and health at work, we protected the rights and interests of our staff and practiced the people-oriented culture. We forged a transparent supply chain to enhance the efficiency of supervision. We conducted the people-benefited projects to reflect our care for the livelihood of the people. Besides, we also strengthened our research in resource endowment and endeavored to alleviate poverty via industrial activities. We built a long-term mechanism with Shanxi Province, by dispatching cadre staff there for branding agricultural products grown in Lvliang Mountain, therefrom 3 cadres were received "Touching Shanxi" Special Award. Guided by the principle of "Joint endeavor to create value and share success", we will proceed to contribute to the harmonious society and future.

Openness leads to a win-win future

We speeded up the pace of globalization through integrating overseas resources, enhanced the benchmarking with international giants and brought in internationally advanced concept and management, technology supply chains and talents. We stepped into the communities abroad and enjoyed together the development achievements. In 2016, DEC had its wind products stretched into markets of Latin America, Russia and Africa, and made a breakthrough in overseas solar power plant EPC contracting. Upholding the spirit of transparency and inclusiveness, we will make unremitting efforts to support "Belt and Road" Initiative.

Adhering to the vision of "Green power will light the future", DEC will keep on moving forward. It is our firm belief that we will create a beautiful future.



INNOVATION

Guide the development with management innovation
Brighten the future with technological innovation



Focus on a "12345" strategy

In order to cope with the severe internal and external circumstances, the new group management executives decided new development strategies of "Seeking progress amidst difficulties, pursuing innovation and change, undergoing transformation and upgrade, delivering enhancement and optimization" together with a clear 12345 strategic planning which encompasses "concentrating on one vision, expanding two markets, capturing three prominent positions, promoting four transformations, and implementing five development principles".

1/

Concentrate on one vision to fulfill our china dream in manufacturing

Adhering to the objective of "Become China's GE", we are making our commitment to become a world leading energy equipment and service supplier with international competitiveness so as to fulfill our China dream in manufacturing to light up the whole world and the people.

3/

Capture three prominent positions: technology, talents, and services

We strengthen our leading position in technology, through an advancing of the critical technology in all aspects, such as design, manufacturing and system integration and a newly-formed pattern of technological lead in all the industry chain, value chain and supply chain. We implement our talent strategy and perfect the employee incentive mechanism in a good manner, thus motivating the innovation and creativity of the cadre and enhancing a higher attraction of talents. Besides, we also build innovative system and mechanism, change the services patterns, upgrade the services approaches, so as to improve the profit-making from the services industry and make this industry a new profit driver.

2/

Expanding two markets to restructuring the resources

Concerted efforts are made to expand the domestic and international markets, with the resources inside and outside China restructured.

4/

Promote four transformations and shape four ten-billion business sectors

Transformations on four aspects are promoted:

An innovation in the business model. Aligning with a pattern of "A combination of real economy, virtual economy and sharing economy", we are making a development and transformation in accordance with a business model of "Manufacturing + Services + Financing + Intelligent manufacturing and Internet plus".

A refinement in the management. We are moving towards a refinement in the fields of the group administration, industrial operation and production.

A shape of 4 ten-billion business sectors: DEC would, continuing the making of a stronger and better growth in hydro power, nuclear power, nuclear power, and gas turbine, and make a substantial pattern of ten-billion industrial sectors in the energy business sectors (such as distributed energy, marine equipment, stored energy).

- International businesses (such as international projects and trades)
- services businesses (such as power plant services, financing services)
- emerging businesses (such as distributed energy, marine equipment, stored energy)



5/

Implement five development principles and five major programs

We are practicing the concept of "Innovation, coordination, green development, openness and sharing"

We are dedicating our resources into implementing five major programs: deepening reform program, science innovation program, quality improvement program, cost control, and further reform and management enhancement program.

Unceasing optimization of the operational management

Integrate and optimize the domestic and overseas market and resources

In the restructuring of all the marketing resources proceeded in a solid manner, we succeeded in optimizing the management of the representative offices, subsidiaries and power plant services in the overseas market and integrated our resources in market development, project execution and after-sales services, which created synergy among our markets.



Steadily strengthen the administrative management

Following a straighten-out of the administrative management such as overall planning, budgeting and labor force allocation, we focused a strict compliance with the rules and an improvement in the inner control system, formed a mechanism of conducting series of regular meetings themed with finance, marketing, quality, operation, audit and so on, as a strong impetus to make the relevant work well-fulfilled.

Continuous improvement on quality-related issues

We formulated 10 decisions in light of enforcing the quality management system.

The monthly-implemented activities aimed at fostering a corporate concept of building a quality-focused company and providing the quality-assured products were thoroughly implemented, thus reinforcing awareness of all our staff for the quality.



Centralize the procurement, take the advantage of an e-procurement

In order to centralize the procurement inside the whole group, we established a supplier management system and formed a centralized procurement management center. In 2016, after the launching and implementing of the centralized procurement management platform, among which 80% procurement was placed through the platform.



Continuous technological improvement on the main businesses

A success in manufacturing HPR1000 steam generator

In 2016, the FOAK steam generator of HPR1000 modeled ZH-65, designed and manufactured by DEC, successfully completed its hydro test before delivery. Unit 5 of Fuqing nuclear power plant is also the world's first demonstration project which adopts the generation III nuclear power technology HPR1000 with China's independent intellectual property rights. This one-time success of the hydro-test for HPR1000 steam generator marks an accomplishment that such nuclear island main equipment with self-reliant design and manufacturing is prepared to be installed on site and a symbol that the Chinese enterprises have a full grasp of the generation III nuclear power equipment design and manufacturing technology.



Set several new world records for the development of hydropower units

In 2016, 22 sets of 75MW bulb type hydro units in Brazil Jerry power plant, supplied by DEC, were all successfully put into operation, which set 4 world records in bulb-type hydropower industry in terms of capacity, unit capacity, runner diameter as well as quantity of the units installed. The electricity generated from this project is supplied stably to the local power grid, thus effectively alleviating the problem of energy shortage, and accelerating local economic development. The annual power production capacity of Jerry hydropower plant is equivalent to an annual saving of 2.96 million tons of standard coal, about reducing CO2 emissions of 9.67 million tons.



Launch of research and development for more clean and efficient 1000MW double reheat thermal demonstration unit



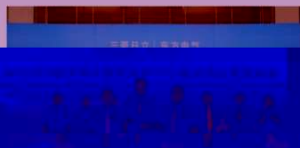
Accomplishment of the technical upgrade for the optimized 5 MW offshore wind power unit

In 2016, the technical upgrade for the prototype of 5MW wind turbine in Rudong project was completed, making such optimized 5MW offshore wind turbine, adapted to IC class wind field and designed with anti-typhoon function design, have its wheel diameter of 140 meters and rotor swept area per KW reaching 3.079 m², of which the performance top-ranked among the I-class wind projects. The upgraded unit was connected to grid on August 23, 2016, with a utilization rate of more than 95% for several consecutive months, thus revealing that this kind of unit is capable of preliminary commercial promotion based on its maturity and technology.



New steps in developing heavy-duty gas turbine

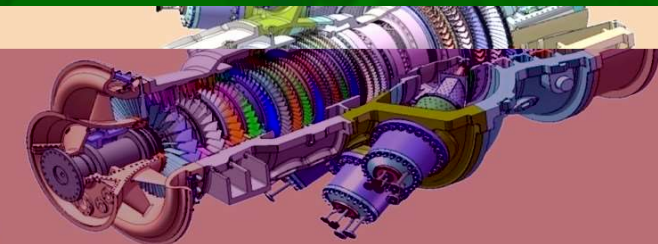
At present, M701F5, M701J gas turbine is the world's most advanced F-class, H-class gas turbine in operation. On June 23, 2016, DEC and Mitsubishi Hitachi Power Systems signed M701F5 gas turbine technology transfer agreement as well as M701J gas turbine technology transfer framework agreement, denoting that DEC stepped forward to the new direction of seizing the initiative in the upmarket of heavy-duty gas turbine.



A good progress in the gas turbine R&D

A speed-up of the transformation and industrialization of scientific research made by Central Research Institute

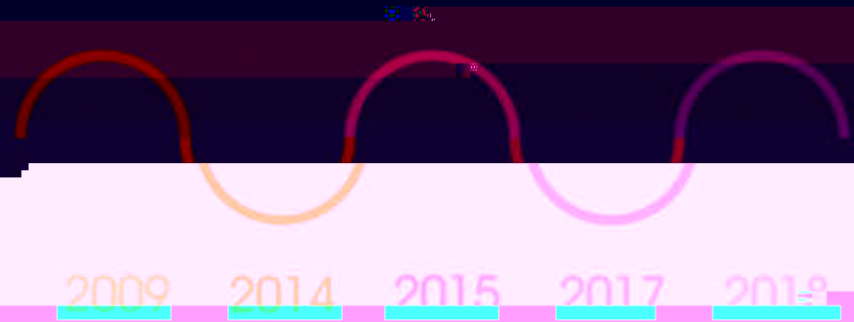
Our standby power system went through the inspections and tests conducted by China TTL, thus winning the access to the market with a small batch production capacity. We successfully carried out the demonstration operation for the Megawatt class LTO battery in Inner Mongolia Tongliao wind field. In the aspects of the intelligent manufacturing and special robots, we completed the R&D for the boiler header tube welding robot system and handed this system over to the client. Besides, we also advanced the construction of digital steam blade manufacturing workshop as scheduled. The development of health and intelligence management and demonstration project for thermal power units, based on Shenhua Wanzhou power plant and Yungeng Hengshan power plant, was progressed in a faster pace. Moreover, we certificated the efficiency of the three-level photovoltaic inverter of high power.



Striving to develop 50MW gas turbine

DEC is striving to develop 50MW gas turbine, its first... (text is partially obscured and blurry)





Patents applied

414

Patents granted

372

Patents granted

1716

Patents granted

660

Patents granted by the end of 2019

Serve the customers with heart and soul and expect their heartfelt praise and favorable feedback

COORDINATION

Forge ahead with our customers and pursue the mutual benefits with the investors

Serve the customers wholeheartedly

In addition to provide the customers with the satisfactory products and services, DEC is also actively engaged in extending the services, such as training the clients. This year witnessed 6 training courses held for Shenhua Group, with a participation of 221 trainees and the courses totaling 96 days. Adhering to the client-centered concept, we did, through the trainings, make the trainees have had the in-depth understanding of the features, technical advantages of our products and potential cooperation scope with us. Shenhua Group gave a high appraisal of the effect of the aforesaid trainings.



Unanimous praise from the clients

DEC and its project teams, with their superb management and responsible working attitude, won the unanimous praise and received many recognitions from the clients.



Coordination

Effective communication with the investors to share the benefits

Constant disclosure of the investor-oriented information in compliance with laws and regulations

完成信息披露 168次

In 2016, DEC completed information disclosure for a total of 168 times with all work implemented as planned. DEC was awarded A from Shanghai Stock Exchange for our excellence in information disclosure in 2016 and 2015 respectively.



Reinforce the corporate governance and protect the interests and rights of all shareholders.

33 17

we held 33 board resolutions, 2 special board committees with 17 resolutions. Besides, we also held 2 general meetings.



we held 2016 general meetings, 2016 annual general meeting and 2016 special general meeting



For years, we formulated to hold the performance briefings, stress on the communication with the investors after regular reports disclosure, and constantly enrich the forms of investor-relation management activities. We did our best to protect the interests of small and medium investors, focus on the good communication with the industrial associations and the media, and understand the concerns from the investors in a more precise manner. For recent 10 consecutive years, the cash dividend totals about 2 billion Yuan RMB, proved to be a good return to investors.

2012



GREEN

Harness cleaner energy to preserve global climate balance
Speed up innovation to ensure a low carbon community

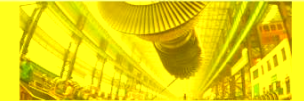
Up-to-standard discharge of wastewater and waste gas

Energy conservation and emission reduction effects of gas turbines

The efficiency of advanced F-class gas – steam combined circulating units that have been put into operation domestically is at about 59.0%. The efficiency of M701J manufactured by Dongfang Electric is above 61.0%. Taking a combined circulating power plant equipped with two gas turbines as



example, the efficiency of unit will be increased by 1.00% (1.00% of 59.0%), the heat consumption of unit will be reduced by approximately 240 kJ/kWh and the NOx emissions per kWh will be reduced by approximately 4%. The ultimate final heat consumption will be less than 7.594 kJ/kWh, reaching the world advanced level.



Energy conservation and emission reduction effects of hydropower

4 units of Xianju 375MW pumped storage power station, with the largest unit capacity in the PRC, have all been put into operation, which can achieve annual savings of approximately 1.5 million tonnes of standard coal and reduction of carbon dioxide emissions by approximately 300,000 tonnes, and offset renewable energy including wind power and solar power by 4500 MW.



Energy conservation and emission reduction effects of nuclear power

3 1,000MW nuclear power units developed by Dongfang Electric have been successfully put into operation, which can achieve annual savings of approximately 122.99 million tonnes of coal and reduction of emissions of carbon dioxide, sulfur dioxide and nitrogen oxides by 322.20 million tonnes, 1.05 million tonnes and 920,000 tonnes, respectively.

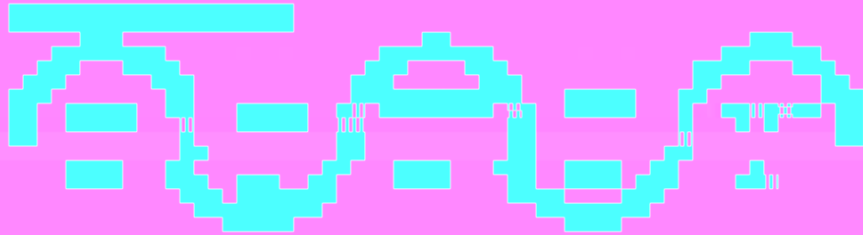
Energy conservation and emission reduction effects of wind power

In 2016, Dongfang Electric produced 200 wind power blades with a total capacity of 592.5 MW, which can achieve annual savings of approximately 430,000 tonnes of standard coal, reduction of carbon dioxide emissions of approximately 800,000 tonnes, and energy conservation and consumption reduction of approximately RMB820 million.

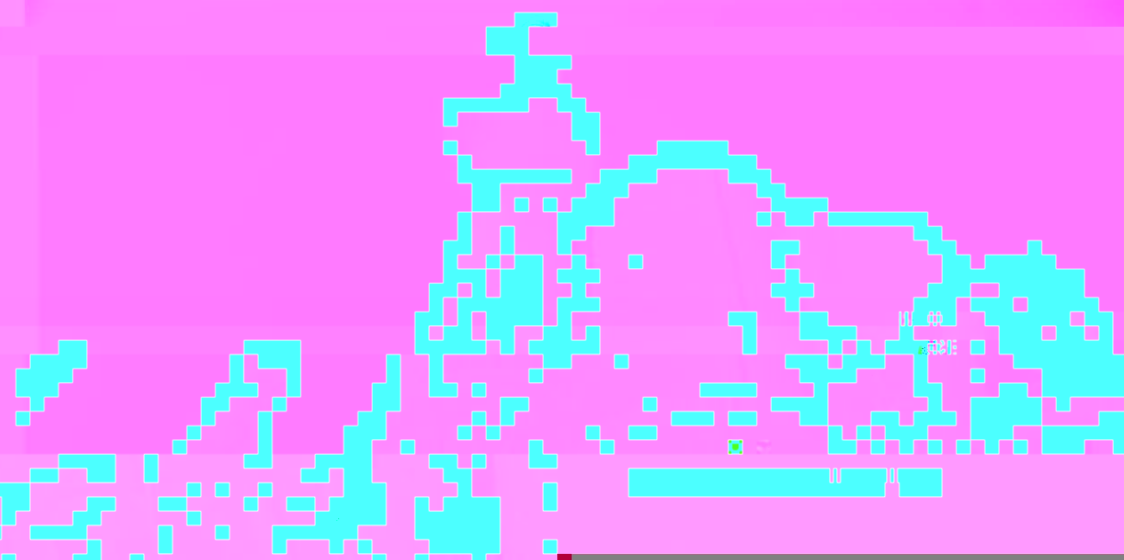




Water loss reduction from FY2017 to FY2019

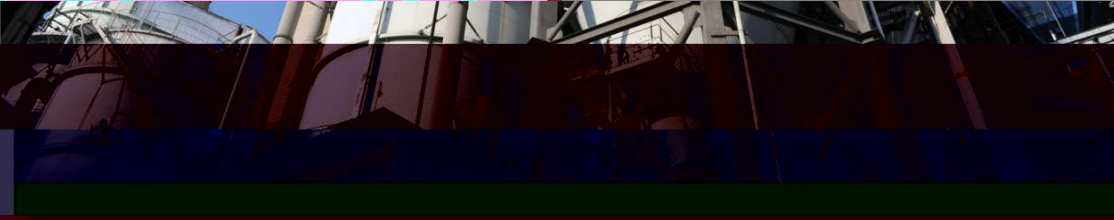


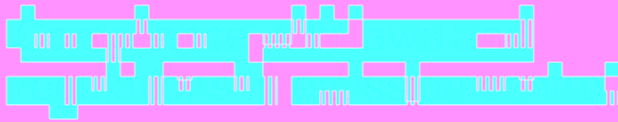
Water loss volume by month



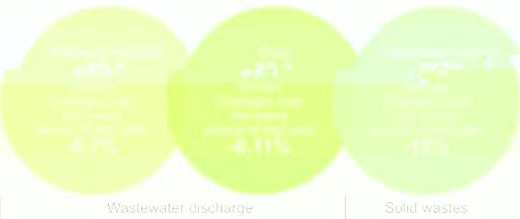
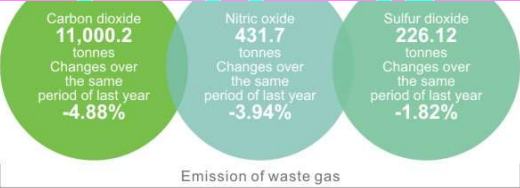
Water loss volume by area

Separate check and labeling for inlet valve of air cooler and clear requirements on the use management of air cooler to urge users to strengthen management of air cooler; a circulating water management system was also prepared to intensify circulating water management; leakage detection was conducted by areas for prompt governance of leakage and routine inspections were reinforced to reduce water loss.





Updating the "environmentally friend" concept of social responsibility, Dongfang Electric strictly abides by the Environmental Protection Law, Air Pollution Prevention and Control Law and other laws and regulations as well as the requirements of environmental management system, and has revised and improved the environmental management system and implemented relevant prevention and control measures for important environmental factors. The Company regularly carries out environmental monitoring and organizes special



OPENNESS

Ride b&r wave to further open up
Reinforce branding by living up to responsibilities overseas



openness

Boost the structure upgrading and establish the specific marketing strategies for different regions all over the world

Optimize the market layout and make new achievements in the traditional market

In 2016, DEC made its debut in providing hydro power equipment to Indonesia under an equipment supply contract for 2x56MW Jatigede hydro power plant. In Indonesia, DEC also signed an EPC contract for KALTENG 2x100MW thermal power plant, the equipment supply contracts for turbine of 1x125MW S4 combined cycle unit and the boilers (including auxiliary systems) of Pajala 2x660MW thermal power plant in Bangal.



Make a breakthrough in the emerging markets with the diversified strategies as a stepping stone

In line with the economic development level and resource endowment in emerging markets, DEC, in the way of product exporting or EPC contracting, brought itself and other Chinese businesses into overseas markets. In 2016, DEC succeeded in entering into Latin America and Russia markets, by signing Herradura 50MW wind power project in Cuba and Ulyanovsk 4x2.5MW wind power project in Russia respectively. Moreover, we also signed Kenya 3x350MW turbine technology agreement and general term contract, which is the first African project with the largest installed capacity and unit capacity ever signed till now.



Dedicated to the advanced technology research to take the lead in the market competition

Themed at cleanness and efficiency, DEC developed independent technologies of thermal power, hydro power, wind power with high parameters and efficiency. In order to compete in western markets, DEC also strengthened cooperation with international energy technical alliances to drive the studies on cutting-edge subjects and participate in the setting of the industrial standards. For instance, the STANRI thermal power plant in Bosnia and Herzegovina is adopting the world advanced technology of 300MW CFB Boiler burning High Moisture and Low Calorific Value Lignite with independent intellectual property rights. Meanwhile, the Swedish BLAIKEN wind power project phase III&IV, already reaching the preliminary conditions for turning-over to the client, used the mixed blades deicing technology pioneered in China. DEC also supplied the hydro equipment for Brazil Jerry hydro power plant with the world largest bulb type hydro unit.



Broaden the business models and widen the cooperation fields

Further access to the international market through cooperation with other Central SOCs



Enhance the brand value and enlarge the international influence

Expand the communication with international government officials on the platform of Western China International Fair



During the 16th Western China International Fair, 35 journalists from 32 African and South African countries visited DEC and had a deepened understanding of our company, thus contributing to strengthen the exchanges and the cooperation among countries.



Fulfill our social responsibilities to further enhance our reputations in overseas markets

We took a role in the local activities such as road construction, schooling and poverty alleviation, medical assistance, and maintained good public relations with the local government. In Myanmar, equipped with the local government and schooling for Tra Vinh Province, DEC donated hundreds of millions of Vietnamese dong to help those homeless people to build houses and purchase clothes and other daily items, and to provide basic living assistance to the elderly people living alone.



Blend into the local and be a responsible corporate citizen

Implementing a
local recruiting
strategy
3,574
million USD

More local recruiting

DEC takes the initiatives in implementing the local recruiting in the countries and regions where the projects are located. By the end of 2016, the number of foreign employees employed in overseas projects totaled 322, with a year-on year growth of 32.6%. **Operating in the countries such as India, Pakistan, Indonesia, Vietnam, Bosnia and Herzegovina, Sweden and other countries, these foreign employees mainly takes the positions related to the technology, management, and administration. All these enable DEC to better execute the projects, blend into the local, provide solution to local employment, thus to activate its accomplishment of the social responsibilities.**



Local Procurement: The Project Department insisted to procure supplies and services in Ethiopia as long as available, which consumed over 100 million of Birr annually. Foods and daily supplies were 100% locally procured while partial equipment and materials for construction locally procured to the most extent, which contributed +32.2% to the project cost.

Prime Minister Hailemariam Desalegn Awarding GIBE III Plaque to DEC



DEC's supplying local recruitment

While implementing the contract, the GIBE III Project Department of DEC also fulfilled its social responsibilities and made prominent contributions to local development.
Local employment: The Project Department insisted to employ local people for positions except partial managements and senior technicians. Up to December 2016, GIBE III Project Department of DEC had 10 Chinese permanent expatriates on site, 25 local employees, 200 Chinese permanent expatriates from installation subcontractor, while 700 local employees hired by installation subcontractor – local employees were over 2 times of Chinese expatriates. The lots of job opportunities have been improving greatly the locals' life quality.



DEC supplying local supplies

Local Procurement: The Project Department insisted to procure supplies and services in Ethiopia as long as available, which consumed over 100 million of Birr annually. Foods and daily supplies were 100% locally procured while partial equipment and materials for construction locally procured to the most extent, which contributed +32.2% to the project cost.

SHARING

TARGETED POVERTY ALLEVIATION

Targeted Poverty Alleviation

Since the launch of the "targeted poverty alleviation", DEC has been regarding poverty alleviation as top priority among tasks concerning people's livelihood. It earnestly takes practical measures such as sponsoring projects and industry development to help impoverished people cast off poverty as soon as possible.

Ji County, Shanxi Province – industry-based poverty reduction

The Company donated RMB500,000 to Ji County, which was stricken by a rarely-seen hail damage, for the development of local apple planting.

It energetically mobilized the subordinate enterprises to procure apples, local specialties, beverages and other agricultural and sideline products produced in Ji County as corporate benefits and in staff group purchase. In 2016, the purchase amount of over RMB3.5 million in aggregate was recorded in this regard.

The Company cooperated with 11 designated aiding central units stationed in Shanxi Province to plan out with concerted efforts the "to savor Lu Liang and Tai Hang, to jointly aid the underprivileged through crowd funding" themed joint promotion event of the aiding central units stationed in Shanxi Province.



The online trade fair of agricultural and special local products of Lu Liang



Savoring Lu Liang and Tai Hang –introduction of agricultural and special local products from poverty-stricken areas in Shanxi



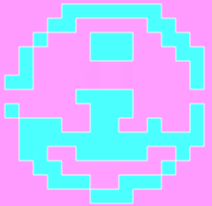
Prices inquiry of Zou Lei, the Chairman



It launched 5 themed exhibitions to the producers and those sales organizations to include the central and outside Shanxi Province of the agricultural and special local products, tourism resources as well as labor resources in the districts of Lu Liang and Tai Hang, thus blazing new trails for the underprivileged to shake off poverty with dignity.

Participated in the construction of photovoltaic project for poverty alleviation purposes. The first batch of 9=100KW photovoltaic power stations at village level for poverty alleviation purposes has passed the construction acceptance smoothly and has been put to generate power on grid as per time requirements, thus guaranteeing stable incomes for local

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01
Safety management

In 2016, we continued to strengthen our safety management system, and all employees are accountable and take ultimate responsibility for work safety. By implementing their duties and making efforts to see that those who fall to old safety standards are replaced gradually, we improved and implemented the system of accountability and management. Thus, beyond

02
Environmental protection

the requirements of the law, we have made great efforts to reduce the impact of our production activities on the environment. We have established a system of environmental protection and occupational health and safety management, and implemented the system of accountability and management. Thus, beyond

03
Occupational health and safety

the requirements of the law, we have made great efforts to reduce the impact of our production activities on the environment. We have established a system of environmental protection and occupational health and safety management, and implemented the system of accountability and management. Thus, beyond

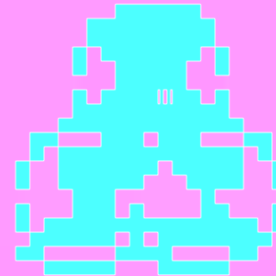
04
Emergency management

the requirements of the law, we have made great efforts to reduce the impact of our production activities on the environment. We have established a system of environmental protection and occupational health and safety management, and implemented the system of accountability and management. Thus, beyond

Occupational health We arranged the check-ups and professional health examinations for all our staff.

Emergency management We revised and improved our emergency response plan, enhanced its training, rehearsal and continuous improvement. In 2016, we held more than 200 rehearsals of all kinds of emergency response.

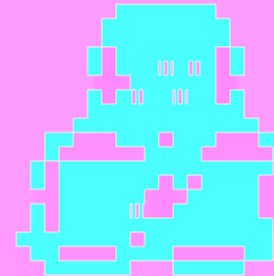
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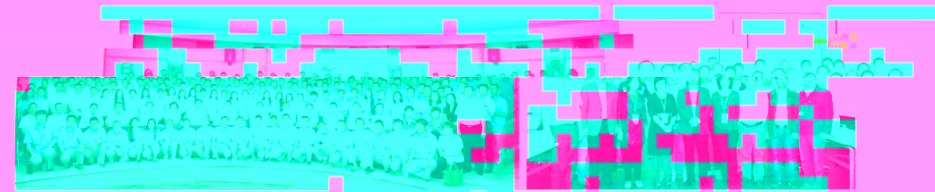
Managerial personnel



Professional and technical personnel



Skilled personnel



The "Being safety in enterprises" second compulsory TV program on the theme of safety week, led by the Office of Security Commission under the Sichuan Provincial Government, was produced in DECC.

Rehearsal of response rescue for electric shock

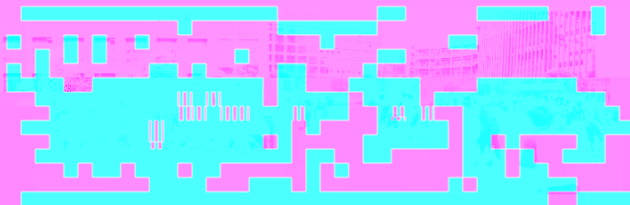


DECC participated in the Sichuan Provincial Government's second compulsory TV program on the theme of safety week, "Being safety in enterprises".

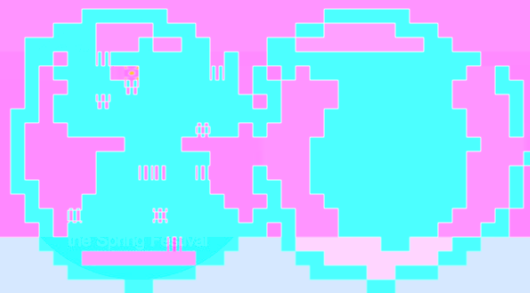
DECC participated in the Sichuan Provincial Government's second compulsory TV program on the theme of safety week, "Being safety in enterprises".

01 企业文化

“Adopting the motto ‘with a 21st Century Partnership among the sectors, the company and the staff’, we created a good cultural environment for the young staff. We organized a variety of entertainment and sports activities to meet their interests.



02 员工福利



PROSPECT

Looking into 2017,
a well-drawn blueprint is guiding us to
roll up our sleeves and go full speed
ahead with our work

In the face of the new economic circumstances and the significant change to global industrial competition pattern, we must do the following:

implement the guiding principles of the 18th National Congress of the CPC and all the plenary sessions of the 18th CPC Central Committee;

put into practice the guiding principles from General Secretary Xi Jinping's major policy addresses;

make endeavor to realize the target of "rising to the top of the world" in the field of power equipment manufacturing.

我们将继续深入贯彻落实党的十八大和十八届三中全会以及习近平总书记系列重要讲话精神，紧紧围绕“四个全面”战略布局，牢固树立创新、协调、绿色、开放、共享的发展理念，坚持稳中求进工作总基调，坚持以提高发展质量和效益为中心，以供给侧结构性改革为主线，主动适应经济发展新常态，保持经济运行在合理区间，着力稳增长、促改革、调结构、惠民生、防风险，推动经济持续健康发展，为全面建成小康社会和实现中华民族伟大复兴的中国梦作出新的更大贡献。

be committed to seizing every opportunity to vigorously expand market based on the goal-oriented discipline in order to accomplish the comprehensive plan of 2017 and reform and development tasks in each stage;

stick to and improve the strict governance of the SOEs of the Party to strengthen Party discipline.

Guided by the vision of "Become China's GE" messaged by Premier Li Keqiang, we

Prospect