

ACFM Good Practise to CO2e reduction ACFM减排范例				ACFM manufacturing type ACFM生产行业									
End use 用途	Principle/Technology 原理/技术	Type 分类	Introduction on Principle/Technology 原理/技术简介	Fabric knitting/weaving 布料织造	Fabric dyeing and finishing 布料染整	Fabric Printing and finishing 布类印花及后整	Narrow fabrics Manufacturing 织带制造	Pu /Fabric Cup Moulding 棉/布杯模塑制造	Fiberfil Manufacturing 纤维制造	Manufacturing 圈带制造	Ring & Slide Manufacturing 粉扑制造	Wire Manufacturing 钢圈制造	Garment Manufacturing 成衣制造
水加热 Water Heating	太阳能热水系统 Solar Energy Water Heating System	节省能耗 Energy Saving	使用太阳能来对水加热以供生活用水所需。太阳能热水器是由集热器、储水箱及相关附件组成，依靠集热管把太阳能转换成热能，利用热水上浮冷水下沉的原理，使水产生微循环而达到所需热水。 The use of solar energy for heating water for domestic use. Solar water heater is composed of a heat collector, water tank and related accessories. Rely on the collector tube for converting solar energy into heat energy, using principle of hot water floating and cold water sinking, causing the water to produce a microcirculation and heat up the water.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	蒸汽/污水热能回收工程 Heat Recovery from Steam/ Sewage	节省能耗 Energy Saving	将车间排出的蒸汽/高温废水通过热交换器加热冷水，从而减少蒸汽用量，节省燃料。 The steam / hot sewage emitted from workshop would pass through the heat exchanger and used for heat up cold water, thereby reduced steam consumption, hence reduced fuel consumption.		✓	✓	✓			✓	✓	✓	✓
污水处理 Effluent Treatment	悬浮生物滤池 Suspended Biological Filter	改善污水水质 Improve Sewage Quality	印染厂采用了“复合折流板厌氧反应器+混凝脱色悬浮生物滤池”联合工艺技术来处理印染废水，旨在改善出水水质，节省污水处理费用的效果。 Printing and dyeing made use of the "HABR+ coagulation decolorization suspended biofilter" combined technology to treat printing and dyeing wastewater, which could improve the water quality, and reduce the cost of sewage disposal.		✓	✓	✓			✓	✓	✓	✓
	氧气调节装置 Oxygen Regulator	节约用水量 Water Saving	污水经收集进入处理池，由隔栅过滤去除其中较大的固体物，然后进入第一阶段的沉淀池。污水在沉淀池中停留数小时，待其中固体污染物沉降后，进入第二阶段的生物化学处理反应池。此时将污水引入第三阶段的沉淀池，将细菌和其它微生物为主的污泥沉降，再经两个不同的滤缸。第一个是沙隔，而第二个是活性炭，处理后的污水在视觉、嗅觉上可以达到与清水相近。经过处理的工业废水被抽至洗手间用于清洁用途。 Collected sewage flow into the processing pool, solids removed by grid filtering, and then entered first stage sedimentation tank. Sewage stayed in sedimentation tank for several hours, until the solid pollutants sinked, and then entered second stage chemical and biological processing reaction tank. Then directed the sewage into the third stage sedimentation tank, bacteria and other microbes would sink. Afterwards pass through two filter tank, first one is sand filter, second is activated carbon filter. Treated wastewater could achieve similar visual and smell with clear water. Treated water would be pumped to the restroom for cleaning purposes.		✓	✓	✓			✓	✓	✓	✓
供水系统 Water Supply	反冲水回收 Backwashing Water Recovery	节约用水量 Water Saving	兴建回收水池收集软水器反冲水用作供应工厂的生产及生活用水。安装水泵及水管把车间反冲水收集到天台回收水池待用。 Constructed a water tank to collect backwash water from demineralizer for supply production and domestic use in factory. Installed pumps and pipes to collect water from workshop to the recovery pool at rooftop for anytime use.		✓	✓							
	冷凝水回收 Reclamation of Condensate Water	节约用水量 Water Saving	安装了蒸汽冷凝水回收装置，分别回收各车间的蒸汽冷凝水，合格的蒸汽冷凝水输送至锅炉使用，不合格的冷凝水输送至染部使用。 Installation of steam condensate recovery device, to collect steam condensate water from each workshop, qualified water would be delivered to the boiler, unqualified water would be deliver to dyeing workshop from production use.		✓	✓	✓		✓	✓	✓	✓	✓
空调系统 Air Conditioning	降温水帘 Evaporative Cooling	节省能耗 Energy Saving	将室外冷空气，经由系统内的水冷却再抽入室内降温。在厂房车间中，一端安装负压风机，另一端安装水帘降温设备，应用负压式抽风扇将厂房内的热空气抽出，造成气压差，促使外部的空气经由水帘片降温后，变成冷空气进入厂房内部。 The system extracted cold air from outdoor, after cool down by cold water, then pumped into indoor for cooling. In the workshop, suction fan is installed at one side, the other side is evaporative cooling equipment, operation of negative pressure fan would extract the hot air from the building, caused pressure difference, the outside air would pass through the water curtain film after cooling, thus supplied cold air into the building.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	空调系统变频调速 Variable Frequency Regulation of Air Conditioning System	节省能耗 Energy Saving	空调系统安装变频器及传感器。利用监察相对湿度及温度，同时发送对照讯号到变频器以调节马达的速度。既保持相对湿度的平稳亦能有效减低马达的速度，从而节省能源。 Installation of variable frequency device and sensor to air-conditioning system. It would monitor relative humidity and temperature, and at the same time sent the control signal to the inverter to adjust speed of the motor. It helped to keep relative humidity to stable level and could effectively reduce the motor speed, thereby saved energy.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	蒸汽型溴化锂吸收式冷水制冷机组 Steam Heated Lithium Bromide Absorption Refrigerator	节省能耗 Energy Saving	印染厂的能源状况可在提供车间工艺的同时，有多余的蒸汽（或蒸汽二次利用）提供给蒸汽型溴化锂吸收式冷水制冷机组。用作为员工宿舍加装空调，以改善员工宿舍生活环境及舒适度。 The steam supply of printing and dyeing factory is not only for workshop operation. The excess steam (or steam for reuse) could be direct to supply steam heated lithium bromide absorption refrigerator. It could be use for the staff dormitory air conditioning, hence could help to improve the employee living condition and comfort.		✓	✓							
	鲜风供冷系统 Fresh Air Cooling	节省能耗 Energy Saving	在低温的冬天，将外面的冷空气经管道抽入室内，通过风扇输送新鲜空气至各个车间。由于不需要冷水，冷水机组已没必要运行。在秋天和春天，当室外空气的温度仍然相对较低时，由冷却塔冷却后的水直接输送至净气装置，然后再进行循环。 In winter, the system pumped cold outdoor air into indoor, the cold air would be transported to all workshops by fan. Because cold water is not needed for cooling, the refrigeration unit has no need to operate. In autumn and spring, when the temperature of outdoor air is still relatively low, water cool by cooling tower would be directly transported to the air purifying device, and then conduct circulation.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	冷冻机压缩系统调节 Refrigerator Compression System Regulation	节省能耗 Energy Saving	智能控制器通过调节压缩系统定时减少耗能。为方便日后分析，该系统也将记录需求值、能耗和节能量。由于环境不断变化，设定恒速或恒量是没必要的。该系统对功率进行控制以实现节能目的。 The intelligent controller reduced energy consumption regularly by adjust the compression system. For analysis purpose, the system would also record demanded value, energy consumption and amount of energy saved. Because the environment constantly changes, setting constant speed or constant amount are not necessary. The system make use of power rate control to achieve the purpose of energy saving.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
染色机 Dyeing Machine	染缸隔热涂层 Insulation Coating for Dyeing Tank	节省能耗 Energy Saving	染缸在染布的过程中需升温，但染缸的表面没有隔热的功能会导致热能散失，直接增加染布过程的能源使用。所以在高温染缸外部喷涂隔热涂层，从而减少染缸内部热能流失，最终达到减少蒸汽用量，节省能源的目的。 Temperature of dyeing tank would rise in dyeing process, but the dye tank surface do not have thermal insulation function to avoid the dissipation of heat energy, which directly increase the energy use of dyeing process. Application of heat insulation coating by sprayed onto the external surface of dyeing tank, thereby reduced the internal heat flow loss of dyeing tank, which could reduced the steam consumption, therefore meet the purpose of energy saving.		✓								
	喷气式染色机 Air Flow Dyeing Machine	工艺技术 Technology	喷气式染色技术，将水与染料及助剂液雾化，通过喷嘴将染料、助剂液均匀喷在布上循环运行染色。每管比传统染缸要少用水一半左右，升温快、时间短，所以耗水耗剂剂量也相应大幅减少。 The technology of air flow dyeing is to atomization water, dyestuff and auxiliary mixture from liquid form, using nozzle to sprinkle the spray on the fabric when the latter is under circulation. When compare with conventional dyeing tank, each air flow tank consume only half amount of water, require less heat up time, operation time is shorter, so the water and auxiliary consumption would be significantly reduced as well.		✓								

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照明系统 Lighting	太阳能路灯 Solar Streetlamp	节能降耗 Energy Saving	用太阳能路灯代替电路灯 Replace electricity streetlamp with solar streetlamp for outdoor lighting.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LED(发光二极管)光管 LED tube	节能降耗 Energy Saving	全厂更改用LED光管LED。比传统荧光灯管，LED光管优点是亮度高、省电、不含水银、发热量低，故在照明节能同时亦有效减低空调负荷。LED光管比传统荧光灯管要省电六至七成。 Replace florescent lamp tube with LED tube for indoor lighting.Compared with conventional fluorescent tube, LED tube has the advantages of high light level, low electricity consumption, mercury free, heating effect to surrounding is low, so it is also effective to reduce air conditioning load.LED tube consume 60% to 70% less electricity than conventional fluorescent tube.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	照明评估 Lighting Evaluation	节能降耗 Energy Saving	进行照明评估，维持室内的光度平均在450-700lux之间，尽量将每个灯槽内的光管数量减少。 Conducted lighting assessment, while kept indoor lighting level within 450-700lux, minimize the number of light tube in each slot to as few as possible.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	改用T5灯管 T5 Fluorescent Tube	节能降耗 Energy Saving	工厂里的日光灯的灯管从T8换成T5。跟T8灯管相比，这些灯管约减少了25-40%的能耗。 Replace T8 florescent lamp tube with T5 florescent lamp tube for indoor lighting. T5 florescent lamp consume 25-40% less energy compare with T8 lamp.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	独立开关制 Individual Switch	节能降耗 Energy Saving	在每支光管加上独立开关制，并教育员工如离开工作岗位超过15分钟，则需要关灯。 Factory installed individual switch in each light tube, and educated employees to turn off the lights if left work station for more than 15 minutes.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	纳米反光板 Nano Reflector	节能降耗 Energy Saving	采用纳米反光板后，办公室提升光度水平至500lux而不会增加耗电。 After installed Nano reflector, light level of office would rise to 500lux but would not increase energy consumption.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
轧堆前处理 Pad Batch Pretreatment	冷轧堆前处理 Cold Pad Batch Pretreatment	工艺技术 Technology	通过浸轧液，堆置后蒸汽从而对棉织物进行前处理。比传统工艺（染缸内进行前处理）降低耗水、耗气、耗电及污水排放。 Cotton fabric passed through the padding liquid, heaped and steamed for pretreatment. Compare with conventional pretreatment (pre treatment inside dyeing tank), this would reduce the water consumption, fuel consumption, energy consumption and sewage emission.		✓	✓							
	等离子前处理 Plasma Pretreatment	工艺技术 Technology	应用等离子技术处理后，棉布在轧染的前处理过程可省略或缩短退浆煮练等过程，降低生产成本，减少水资源浪费和化学污染物排放。 With the use of plasma technology pretreatment, cotton fabric pretreatment operation could skip or shorten desizing and scouring process, hence reduce production costs, reduce water consumption and chemical pollutants emission.		✓	✓							
锅炉系统 Boiler	伺服马达监察锅炉燃烧系统 Servo Motor Regulation of Boiler Combustion	节能降耗 Energy Saving	此系统通过控制燃料和空气比率从而提升锅炉效率，可节省生产蒸气时所需的燃料。它以伺服马达追踪工场用蒸气量来调节火力的大小，令供应与需求达至平衡。 The system could improve the boiler efficiency by control fuel and air consumption ratio, thus saved the amount of fuel required to produce steam. Servo motor would track and adjust fire power according to steam consumption level of the plant, and maintain a balance steam supply to the plant.		✓	✓	✓		✓	✓	✓	✓	✓
	锅炉除尘器前置塔 Boiler Dust Collector	节能降耗 Energy Saving	在热电站锅炉除尘器增加前置塔，减少因引风机故障需开停炉的燃料损耗。 Install boiler dust collector could reduce the fuel wastage caused by turning on and off the boiler during induced draft fan breakdown.		✓		✓		✓	✓	✓	✓	✓
锅炉废气 Boiler Flue Gas	锅炉旋流板塔 Rotating-Stream Tray Scrubber Tower for Boiler	减少锅炉废气排放 Reduce Boiler Flue Gas	烟气由塔底切线进入，经塔板叶片的导向作用而使烟气旋转上升。碱液经塔板上的散水器喷成雾滴逐板下流，造成大面积与废气接触及进行吸收反应。当液滴被气流带动而旋转，产生的离心力可强化气液间的接触，最后甩到塔壁上沿壁下流，经过溢流装置到下一层塔板上，再次被气流雾化而作进一步的气液接触。如上所述，液体吸收气污染物后，经结聚又再有效的分离，一直保持充分的气液接触。 Flue gas enters from the bottom of tower, guided through the paddle and rise rotary. Alkaline solutions atomized into droplet by sprinkler and sprinkled on the inner tower wall and flow down, resulting in large surface area to contact and perform the absorption reaction with flue gas. When the droplet is driven to rotate by the flow, the centrifugal force generated would reinforce the gas-liquid contact, thrown the droplet onto the tower wall and flow down along, pass through the overflow valve to the next layer of the tower paddle, being atomize again and further react with the gas. As above, after the liquid absorbed pollutant from gas, would be liquefy and then atomize again, keeping adequate level of gas liquid contact.		✓	✓	✓		✓	✓	✓	✓	✓
	湿法脱硫系统 Wet Flue Gas Desulfurization	减少锅炉废气排放 Reduce Boiler Flue Gas	湿法脱硫工艺在原有脱硫工艺的基础上，增加石灰/石灰石的烟气湿法脱硫工艺，可有效提高二氧化硫的处理率，降低二氧化硫的排放量，大大减少烟气对环境的污染。 Compare to conventional desulfurization technology, this technology added sodium sulfate to limestone slurry to increase sulfur dioxide removal efficiency. Hence reduce sulfur dioxide emission and air pollution of flue gas.		✓	✓	✓		✓	✓	✓	✓	✓
包装 Packaging	包装物料回收重用/再造 Reuse/Recycle of Packaging	减少废料 Waste Reduction	布厂将纸筒包装改为胶筒包装，并作定期回收。而传统的PP胶袋则改用含30%的环保再生胶袋。 Fabric mill used plastic roll instead of paper roll for packaging, and collect them for reuse regularly. Conventional PP plastic bag replaced by recycled plastic bags containing 30% of recycled material.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
印花技术 Textile Printing	数码喷墨印花技术 Ink Jet Digital Printing	节约用水量 Reduce Water Consumption	数码直喷墨印花技术是通过电脑软件系统再经由喷绘机，将染料直接喷印到布料上。数码直喷墨印花与传统丝网印花方式完全不同，它不需要制版，省略了传统丝网印花所需的制片、制网、配色调浆、刮印等工序。数码直喷墨印花技术不用水和色浆，过程可减少染料的浪费和污水产生。 Ink jet digital printing technology is control by computer software system to operate the printer, the dyestuff would be directly printed onto the textile material. Compare with conventional screen printing, ink jet digital printing do not involve screen making, therefore no film making, screen making, print paste preparation, and scratching operation. It does not required water and print paste, therefore can reduce dyestuff wastage and sewage emission.			✓							
衣车马达 Sewing Machine	衣车伺服马达 Sewing Machine Servo Motor	节能降耗 Energy Saving	在衣车马达旁安装了服务器，对马达的实际功率进行实时检测和计算，按马达的实际负荷来控制功率输出大小。在马达空载情况下节电率最高可达40%-60%；平均节电率达到20%-40% Servo motor was intalled to sewing machine, it would conduct real-time detection and calculation of motor power rate, regulated the power rate according to the actual load of the motor. Under motor idle condition, energy saving up to 40%-60%; the average saving up to 20% -40%.										✓
蒸气系统 Steam Supply	蒸气保温套 Steam Pipe Insulation Cover	节能降耗 Energy Saving	以玻璃纤维做夹层的保温套包裹着蒸气管最热的部分。不但可保持蒸气管内蒸气的温度，对四周的温度影响亦相对地减低。 Use glass fiber laminated insulation cover to wrap the hottest part of steam pipe. Not only can keep steam temperature inside the pipe, heating effect on surrounding area would also reduced.	✓		✓	✓	✓	✓	✓	✓	✓	✓
供电系统 Electricity Supply	功率因子自动补偿器 Automatic Power Factor Compensation	节能降耗 Energy Saving	全厂分为不同区域由不同的电机组控制，再在机组内安装仪表以监控用电量，如有发现某区用电效率不足，即可作出调节。 The plant is divided into different zone, and each zone controlled by individual power unit, and each unit is installed with instrument to monitor electricity consumption, if any zone is detected as low efficiency, it would be adjusted by the unit.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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染料回收 Dyestuff Recycle	纳米振动薄膜颜料回收系统 Nano Vibration Membrane for Dyestuff Recovery	改善污水水质 Improve Sewage Quality	使用纳米振动薄膜颜料回收系统将染料回收。此系统利用超频振动效果，解决膜堵塞问题。当染料回收后，出水通过卷式反渗透系统处理后便可回用。染料通过浓缩后使用化学还原法回用。 Using Nano vibration membrane to collect dyestuff from sewage. The system used ultra frequency vibration effect to resolve the obstruction problem of filtration membrane. After the dyestuff being collected, the water could be recycled after go through the reverse osmosis treatment. The dyestuff could also be recycled after concentrated chemical treatment.		✓	✓							
蒸汽锅炉系统 Steam Boiler	汽轮给水泵 Turbine Driven Pump for Boiler	节省能耗 Energy Saving	安装一套500kW汽轮机驱动水泵，替代二台电动给水泵，汽轮机给水泵流量恒定，汽轮机给水泵流量大小，汽轮机给水泵流量由汽轮机转速控制，汽轮机转速由汽轮机调速器控制，三台除氧器用汽在12~15t/h左右，500kW的汽轮机给水泵排汽在14k/h左右，排汽压力在0.1~0.07MPa，这样既保证锅炉的给水量，又保证了除氧器的用汽量，从而节约用电。 Installed one set 500kW turbine driven water pump to replace two electric water pump, and work in with one set electric water pump. Electric water pump flow was kept constant, turbine driven water pump flow could be adjusted. Steam exhaust from turbine driven water pump could supply to three deaerator, three sets of deaerator steam consumption range is 12 ~ 15t/h. 500kW turbine driven water pump steam exhaustion at about 14k/h, exhaustion pressure at about 0.1 ~ 0.07MPa. In doing so, the water supply for boiler and steam supply for deaerator could be			✓	✓	✓		✓	✓	✓	✓
黏朴机发热的部分 Interlining Machine Heating Part	黏朴机保温套 Interlining Machine Insulation Cover	节省能耗 Energy Saving	以玻璃纤维做夹层的保温套覆盖着黏朴机发热的部分。不但可保持黏朴机的温度，对四周的温度影响亦相对地减低。 Use glass fiber laminated insulation cover to wrap the heating part of interlining machine. Not only can keep steam pipe temperature, heating effect on surrounding area would also reduced.										✓
压缩系统 Air Compression	压缩空气压力调节器 Air Compressor Pressure Regulator	节省能耗 Energy Saving	采用了中央电脑系统的空气优化器，可以在预先确定的窄波段压力内调节系统压力，以优化能源效益。另外，可确保最适宜的压缩空气输送量。该系统可存储、分析系统的实际操作性能，随时确保系统的准确性和可靠性。 The system is controlled by central computing system, it could adjust the system pressure within a predetermined narrow band of pressure, so as to optimize the energy consumption efficiency. In addition, it helped to ensure the most suitable level of compressed air transportation. The system would store data for analysis on actual operation performance, therefore accuracy and reliability of the system could be maintained.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
厨房 Kitchen	天然气灶取代柴油灶 Natural Gas Stove Replace Diesel Stove	节省能耗 Energy Saving	由天然气公司铺设天然气管道至厂内的厨房，同时将厨房柴油灶更换为天然气灶。减少厨房油烟的污染问题。 Arranged the gas company to lay natural gas pipeline to the kitchen, at the same time replace diesel stove for for natural gas stove. This could reduce the pollution problem caused by the kitchen fume.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
发电热系统 Electricity and Heating Generation System	背压式汽轮机发电机 Back Pressure Steam Turbine Generator	节省能耗 Energy Saving	背压式汽轮机排汽所含的热量绝大部分被热用户所利用，发电的全部冷源损失都用作供热，不存在冷源损失，所以发电热效率很高，几乎等于锅炉效率乘管道效率。从燃料的热利用系数来看，背压式汽轮机装置的热效率较凝汽式汽轮机为高。但是背压式汽轮机发电机组发出的电功率由热负荷决定，不能同时满足热、电负荷的需要。背压式汽轮机一般不单独装置，而是和其他凝汽式汽轮机并列运行，由凝汽式汽轮机承担电负荷的变动，以满足外界对电负荷的需要。這樣的組合发电效率比同参数、同容量纯凝汽机组高，但不一定比高参数大型纯火电机组高。 Energy of back pressure turbine generator produced steam would be mostly consumed by all users, the cold source power are used for heating, therefore not cold source power loss, so the heat efficiency is very high, almost equal to the boiler efficiency multiply by pipeline efficiency. From the fuel utilization view point, back pressure turbine generator has higher thermal efficiency than condensing turbine. But the electricity generation power rate of back pressure turbine is determine by heat loading, might not fulfill the heating and electricity consumption demand. Therefore back pressure turbine generator usually not installed solely, it worked with condensing turbine, condensing turbine would take the variation in electricity loading, and support the electricity consumption demand. Such combination of power generation have better efficiency compared with solely use of condensing steam turbine in same parameters and volume, but not essentially higher than high parameter thermal power generator.		✓	✓	✓		✓	✓	✓	✓	✓
运输 Transportation	供应链评估 Supply Chain Evaluation	减少运输废气排放 Reduce Exhaust Gas in Transportation	从供应链源头管理碳排放，如改以走物流园及较近之港口交货于客户，从而减少运输路程。由此安排可节省燃油消耗及碳排放量。 Carbon emissions management from the source of supply chain, such as make use of logistics park and nearby port to delivery goods to customers, thereby reducing the transportation process. This arrangement could save fuel consumption and carbon emission.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓