



**Asia-Pacific
Economic Cooperation**

2015/SOM2/CTI/DIA1/003

Tianjin Green Supply Chain Pilot Work

Submitted by: China



APEC
PHILIPPINES
2 0 1 5

**Dialogue on APEC Cooperation Network on Green
Supply Chain
Boracay, Philippines
11 May 2015**

TGCC  天津绿色供应链中心
Tianjin Green Supply Chain Centre

**探索引入绿色供应链管理推动全面绿色化
——天津绿色供应链试点工作汇报提纲**

**Exploration in Applying Green Supply Chain Management to
Promote Comprehensive Greening
--Tianjin Green Supply Chain Pilot Work Outline**

天津绿色供应链服务中心 穆玲玲
Tianjin Green Supply Chain Centre Mu Lingling
2015年5月8日
8 May, 2015

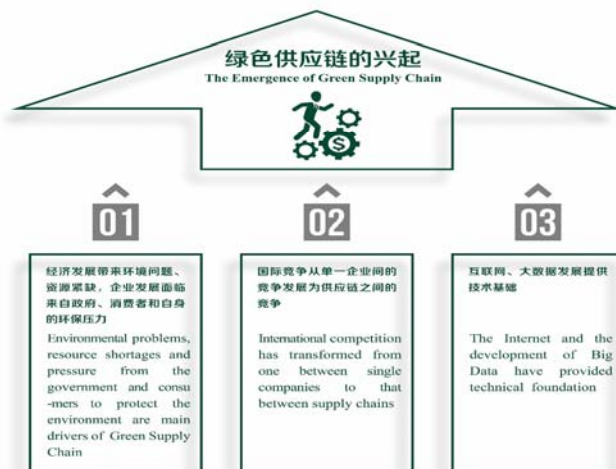
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APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre

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我们对绿色供应链的理解 Understanding on Green Supply Chain

绿色供应链的兴起 The Emergence of Green Supply Chain



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我们对绿色供应链的理解 Understanding on Green Supply Chain

绿色供应链理论的提出 The Proposal of Green Supply Chain Theory



由美国密歇根州立大学于1996年提出
 Green Supply Chain Theory was put forward by Michigan State University of the United States in 1996

绿色供应链的特点 Characteristics of Green Supply Chain



环境绩效与经济效益平衡
 Balanced performance between environmental protection and economic benefits



供应链上下游企业协同改造
 Coordinated efforts made by companies in the supply chain from upstream to downstream

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我们对绿色供应链的理解 Understanding on Green Supply Chain

绿色供应链的主要目标：产品全生命周期“从摇篮到再生”
Main Objectives of Green Supply Chain: Product Life Cycle "From Cradle to Regeneration"

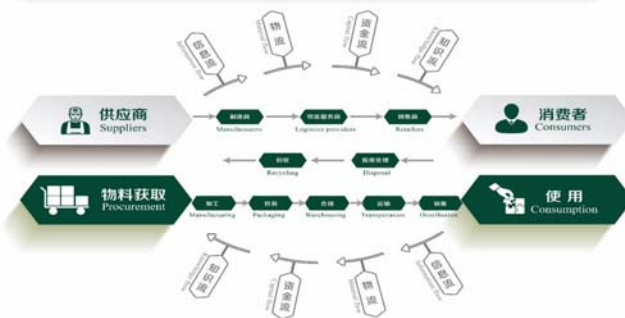


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我们对绿色供应链的理解 Understanding on Green Supply Chain

绿色供应链模型 The Model of Green Supply Chain

目标：资源最优配置、增进社会福利、实现与环境相容
Goals: Optimize resources allocation, promote social wellbeing, reduce environmental impacts



原则：代际公平、代内公平
Principle: Inter-and intra-generational equity

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我们对绿色供应链的理解 Understanding on Green Supply Chain

I 绿色供应链的基本思想 Basic Theories of Green Supply Chain



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我们对绿色供应链的理解 Understanding on Green Supply Chain

- 绿色供应链的主要内容 Contents of Green Supply Chain
 - 绿色设计 Green design
 - 绿色材料 Green material selection
 - 绿色包装 Green package
 - 绿色生产 Green manufacturing
 - 绿色供应过程 Green supply process
 - 绿色回收与处理 Green recycling
 - 绿色消费 Green consumption

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	 我们对绿色供应链的理解 Understanding on Green Supply Chain
	 绿色供应链天津实践 Tianjin Practices on Green Supply Chain
	 APEC绿色供应链合作网络示范中心 APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre
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绿色供应链天津实践—背景

Tianjin Practices on Green Supply Chain--Background

- 天津城市定位是中国北方经济中心、国际港口城市和生态城市
- Tianjin is China's northern economic center, an international port and ecological city
- 天津滨海新区是国家级综合配套改革实验区，是我国重要的金融创新实验基地
- Tianjin Binhai New Area is the comprehensive reform experimental district and important financial policy innovation area of China
- 天津是国家循环经济试点城市、低碳试点城市和碳交易试点城市
- Tianjin is a national circular economy pilot city, low carbon pilot city and carbon exchange pilot city
- 天津率先推行绿色产品政府采购和绿色金融
- Tianjin is the first city in China to introduce government green procurement and green finance
- 国务院批准天津、广东、福建等第二批自贸区
- Tianjin, Guangdong and Fujian were approved as the second batch of the free trade zone by the State Council

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绿色供应链天津实践—主要任务

Tianjin Practices on Green Supply Chain--Main Tasks

- 推行绿色产品政府采购，健全配套审批监督机制
- Promote government green procurement
- 促进钢铁行业绿色供应链管理，改善钢铁企业生态足迹状况
- Develop green metal business
- 加强建筑领域绿色供应链管理，促进绿色建筑产业化发展
- Strengthen green supply chain management in construction business
- 构建绿色商品服务平台，打造于家堡APEC绿色商品服务示范区
- Build green trade service systems
- 制定绿色标准和建立市场服务体系
- Develop green standards
- 促进企业和公众绿色消费，培育绿色消费文化
- Cultivate the culture of green consumption
- 建立绿色财税金融支持体系
- Create financial infrastructure for green finance



绿色供应链天津实践—主要成果

Tianjin Practices on Green Supply Chain--Major Achievements

- 2013年11月1日颁布《天津绿色供应链管理试点实施方案》
- Issued "Pilot Scheme of Tianjin Green Supply Chain Management" on November 1st, 2013
- 2014年7月29日颁布《天津市绿色供应链产品政府采购管理办法》
- Issued "Green Supply Chain Management Practices in Government Procurement" on July 29th, 2014
- 天津市建委发布《天津市绿色建材与设备评价标识管理办法》
- Issued "Measures of Tianjin Municipality for Evaluation and Labelling of Green Building Materials& Equipment"
- 《天津市绿色建筑材料评价标准》、《天津市绿色建筑设备评价标准》编制完毕。
- Composed "Tianjin Green Building Materials Evaluation Standards" and "Tianjin Green Building Equipment Evaluation Standards"



绿色供应链天津实践—重点项目 Tianjin Practices on Green Supply Chain--Key Projects

- 渤海钢铁集团 Bohai Steel Group
 - 节水1500多万吨/年
 - Save more than 15 million tons of water annually
 - 1100多万吨固体废弃物回收利用/年
 - Recycle about 11 million tons of solid waste every year
 - 余热余能回收发电15亿千瓦时/年
 - Generate energy about 1.5 billion kWh/per year through waste heat and energy
- 天津市住宅集团 Tianjin Housing Group
 - 绿色房地产开发经营
 - Develop and operate green real estate
 - 绿色新型建材与住宅部品制造
 - Manufacture new green building materials and housing parts
 - 绿色科技与服务
 - Apply green technologies and services

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绿色供应链天津实践—重点项目 Tianjin Practices on Green Supply Chain--Key Projects

- 天津市政府采购中心 Tianjin Government Procurement Center
 - 节电5千万千瓦时、二氧化碳减排17万吨
 - Save energy by 50 million kWh and reduce CO2 emissions by 170,000 tons
 - 推出天津市绿色供应链产品政府采购目录
 - Issue catalogue for green products in government procurement
 - 提高优先采购比例，探索强制采购
 - Issue catalogue for green products in government procurement

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绿色供应链天津实践—重点项目

Tianjin Practices on Green Supply Chain--Key Projects

- 于家堡金融区 Tianjin Yujiapu Financial District
 - 2011年第九届能源部长会议批准于家堡为首个APEC低碳示范城镇
 - In 2011, Tianjin Yujiapu Financial District was authorized as the first APEC Low-Carbon Model Town
 - 全程参与试点研究和实践
 - Participated in the entire process of the pilot unit's research and practices
 - 产业金融和绿色低碳现代服务体系初具规模
 - A system of industrial finance and green low-carbon modern service providers began to take shape
 - 2014年成功组织中国首例区域绿色建材绿色采购
 - In 2014, Yujiapu successfully organized the first green procurement of regional fine decoration and building materials
 - 2014年第十一届能源部长会议发布《北京宣言》，推进APEC可持续能源中心建设
 - In 2014, the 11th APEC Energy Ministerial Meeting released Beijing Declaration and promoted the establishment of the APEC Sustainable Energy Center(APSEC) in China

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中国首次区域建材绿色采购

Regional Green Procurement of Building Materials

- 时间 Time:
 - 2014年1月至4月 January—April, 2014
- 范围 Scope :
 - 涵盖于家堡金融区起步区03-14、03-15、03-18、03-21、03-26等地及地下商业街
 - 共计6个项目、建筑面积总计约70万平米精装修工程
 - It covers 6 items of Yujiapu Financial District startup area 0314, 0315, 0318, 0321 and 0326 as well as underground commercial district, which is a refined decoration project with around 0.7 million m2 of construction area in total.
- 标的:



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中国首次区域建材绿色采购

Regional Green Procurement of Building Materials

- 绿色标准 Green Criteria
 - 通过ISO14001环境体系认证
- ISO 14001 certified
 - 符合各地块星级绿色建筑对产品节能、环保、使用功能等技术要求
- Meet the technical requirements of the star level green buildings in each block, such as product energy conservation, environmental protection and use function
 - 产品具有中国环境标志认证证书、中国节能产品认证证书，以及节水率检验证明、放射性指标和游离甲醛等挥发量的检验证明
 - Products have obtained China Environmental Labeling Certificate, China Energy Conservation Product Certificate and inspection certificate of water saving percentage, radioactive index and free formaldehyde



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中国首次区域建材绿色采购

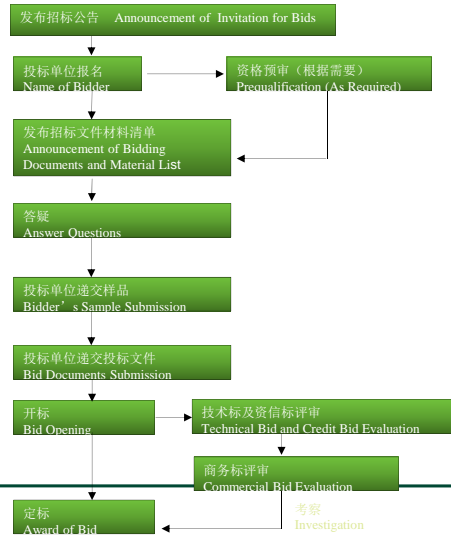
Regional Green Procurement of Building Materials

- 组织保障 Organizational guarantee
 - 总经理任绿色采购小组负责人，5位副总经理参与决策与协调，8个部门参与，天津绿色供应链中心提供全程服务
 - The general manager is the person in charge of green purchasing group while 5 vice general managers participate in decision and coordination with 8 departments participation and Tianjin Green Supply Chain Center provides full service.
- 成效 Result
 - 国内外六十余家知名品牌厂商报名参与。达到既定绿色标准，切实有效降低成本
 - More than 60 well known brand manufacturers from domestic and abroad participated. Established green criteria has been achieved, and costs have been reduced effectively.

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中国首次区域建材绿色采购 Regional Green Procurement of Building Materials

- 过程控制 Process control



APEC's FIRST LOW CARBON MODEL TOWN

APEC首个低碳示范城市

Green Building

绿色建筑

- > The buildings included in the Starting Area are strictly designed according to green building standards and the standards of the U.S. LEED green building planning.
- > This ensure the buildings in this area are 100% green building.
- > Design work completed and implementation phase has beginning.
- > By the end of 2013, some of the buildings construction will finish

按照中国绿色建筑标准和美国LEED标准对起步区建筑物进行了绿色建筑规划，绿色建筑覆盖率100%，目前的设计工作已全部完成，已进入项目实施阶段，2013年底将有部分建筑物竣工。



国际金融会议酒店 (LEED金奖, 绿色建筑3星)

APEC's FIRST LOW CARBON MODEL TOWN

APEC首个低碳示范城市



Low carbon landscape

低碳景观

- > River landscape, Open space, green belt of Central Avenue and the green roofs,
- > Green area close to 30%

规划了沿河景观、开放空间、中央大道绿化带和屋顶绿化，绿地面积接近30%





APEC's FIRST LOW CARBON MODEL TOWN

APEC首个低碳示范城市



Low carbon transport

低碳交通

- 京津高铁-High-speed railway from Beijing-Tianjin
- 三横两纵地铁3 horizontal and 2 vertical subway
- 巴士网Bus network
- 步行街Friendly Pedestrian
- 地下空间Underground Space
- 自行车道 Cycling Route




APEC's FIRST LOW CARBON MODEL TOWN

APEC首个低碳示范城市

Energy Center

能源中心

- > Planning multiple energy centers in the region
- > Employ professional management company,
- > Centralize energy supply for the regional construction

区域内规划了多个能源中心，引进专业化管理公司
为区域建筑集中供能






APEC's FIRST LOW CARBON MODEL TOWN





APEC首个低碳示范城市

Common ditch

共同沟

Common trench are designed to incorporate municipal pipelines

于家堡金融区规划设计了共同沟，收纳市政管道

	 我们对绿色供应链的理解 <u>Understanding on Green Supply Chain</u>
	 绿色供应链天津实践 <u>Tianjin Practices on Green Supply Chain</u>
	 APEC绿色供应链合作网络天津示范中心 APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre
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APEC绿色供应链合作网络示范中心—重要成果 APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre--Major Achievements
<ul style="list-style-type: none"> • 2014年5月8日《亚太经合组织绿色发展高层圆桌会议宣言》发布 • The Declaration of APEC High-level Roundtable on Green Development was Issued in Tianjin on May 8th, 2014 • 2014年8月第三次高官会批准《APEC绿色供应链合作网络倡议》 • APEC Cooperation Network on Green Supply Chain Proposal--Approved by SOM3 in August, 2014 • 2014年APEC领导人宣言 The APEC Leaders' Declaration of 2014 <ul style="list-style-type: none"> - 我们批准在中国天津建立首个亚太经合组织绿色供应链合作网络示范中心，并鼓励其他经济体建立示范中心，积极推进相关工作 - We endorse the establishment of the first pilot center of APEC Cooperation Network on Green Supply Chain in Tianjin, China, and encourage other economies to establish pilot centers and advance related work
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APEC绿色供应链合作网络示范中心—建设方案
APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre--Development Scheme

- 建设方案 Development Scheme
 - 天津市政府组织制定《APEC绿色供应链合作网络天津示范中心建设方案》，2015年2月《方案》获环保部批准，近期将以天津市政府名义颁布实施。
 - Tianjin Government compiled "The Development Scheme of the APEC Cooperation Network on Green Supply Chain Tianjin Demonstration Center". The scheme was approved by the Ministry of Environmental Protection in February 2015, and it will be issued in the name of Tianjin Government.
- 组织机制 Organization Mechanism
 - 天津市绿色供应链试点领导小组负责与环保部等国家部委对接。领导小组办公室设在天津市发改委。
 - The leading group of Tianjin Green Supply Chain Pilot is responsible for docking with national ministries such as the Ministry of Environmental Protection. The leading group is set in Tianjin Development and Reform Commission

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APEC绿色供应链合作网络示范中心—建设方案
APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre--Development Scheme

- 天津示范中心建设启动工作会 Launching Ceremony of Tianjin Center
 - 计划6月份在天津于家堡金融区举行揭牌仪式，届时21个经济体将派代表出席。
 - The Unveiling Ceremony is scheduled in Tianjin Yujiapu Financial District on May, and representatives from 21 economies will be present.
- 工作机构 working organizations
 - 天津市绿色供应链协会（“天津中心协会”）
Tianjin Green Supply Chain Association("Tianjin Center Association")
 - 天津低碳发展与绿色供应链管理服务中心有限公司
Tianjin Green Supply Chain Centre

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APEC绿色供应链合作网络示范中心—建设方案
APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre--Development Scheme

- 天津绿色供应链管理服务中心
- Tianjin Green Supply Chain Management Service Centre
 - 参与组织中国首次区域绿色建材招标
 - Participated in and organize the first procurement of green building materials in China
 - 参与《天津市绿色建材评价细则》（装饰装修材料）编制
 - Participated in the compilation of “Tianjin Green Building Materials Evaluation Rules”(Decoration Materials)
 - 举办多期“绿色供应链大讲堂”
 - Held a series of “Green Supply Chain Forum”
 - 承接天津市初始碳盘查及2013年碳核查工作
 - Undertook Tianjin original carbon inventory and carbon verification of 2013.
 - 取得天津市政府招标采购代理资质
 - Became Tianjin Government Procurement agency

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APEC绿色供应链合作网络示范中心—筹备安排
APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre-- Preparatory Arrangement

- 天津绿色供应链协会是由天津市与绿色供应链相关企业、研究机构、中介机构、节能减排服务机构和其他相关机构等组成的专业性非营利性社会组织。
- Tianjin Green Supply Chain Association is a professional, non profit social organization that is composed of Tianjin enterprises, research institutions, intermediary institutions, energy-saving agencies and other organizations that are related to green supply chain.

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APEC绿色供应链合作网络示范中心—筹备安排 APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre-- Preparatory Arrangement

- 发起会员有10家，其中包括：10 founding members, including:



- 其他会员20余家，其中包括：more than 20 other members, including:



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APEC绿色供应链合作网络示范中心—下一步工作 APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre-- Next Step Work

- 工作思路：三纵、四横、五区
Work ideas: three industries, four links and five areas
- 三纵：建筑、钢铁、汽车三个行业
Three industries: construction, iron and steel, automobile
- 四横：绿色设计、绿色生产（包括施工）、绿色物流和绿色回收
Four links: green design, green production (including construction), green logistics and green recycle
- 五大重点功能区
Five key functional areas

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APEC绿色供应链合作网络示范中心—近期重点工作
APEC Cooperation Network on Green Supply Chain Tianjin Pilot Centre--
Recent Key Work

- 制订管理办法
- Formulate management regulations
- 制订绿色供应链工作导则
- Draw up green supply chain work guidelines
- 绿色供应链标准
- Make green supply chain standards
- 绿色供应链管理工具开发和适用
- Develop and expand green supply chain management tools
- APEC绿色供应链天津示范中心网站和绿色信息综合平台
- Establish website and comprehensive green information platform
- 示范项目组织
- Organize demonstration projects
- 推进绿色采购
- Promote green procurement

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APEC绿色供应链合作网络
——链接我们绿色未来
APEC Green Supply Chain Network
——A Link to Our Green Future

谢谢!
Thank you!