

PSCI Environment Sub Team

PSCI 环境小组

RIKKE GADE CHRISTENSEN

可持续采购负责人

利奥制药LEO PHARMA

ZELIA KRANICH

可持续采购副总监

默沙东（在美国和加拿大称为默克公司）

MERCK & CO., INC., (MERCK SHARP & DOHME
OUTSIDE THE UNITED STATES AND CANADA)

AGENDA会议议程

Introduction to the Environment Sub Team PSCI 环境小组介绍

About the Sub Team 关于PSCI环境小组

PSCI Principles on the Environment PSCI 环境相关原则

Workstreams 相关工作组

Maturity Model 成熟度模型

Supplier environmental training 环境相关的供应商培训

Speaker Bio 嘉宾介绍

Rikke Gade Christensen

Head of Sustainable Procurement, LEO Pharma

可持续采购部门负责人,利奥制药

- Rikke has been the Head of Sustainable Procurement at LEO Pharma for the last 4 years. She joined LEO Pharma 6 years ago to formalise processes in relation to supplier sustainability and is currently Member of the Climate task force there. This year Rikke started supporting the PSCI Environment sub-team as a co-lead, mainly for the data collection workstreams.
- Rikke于六年前加入利奥制药负责供应商可持续实践流程的建立,并在过去四年中担任可持续采购部门总监的职务。同时,Rikke也是利奥制药气候变化行动小组的成员。Rikke于今年加入PSCI环境小组作为领导团成员,主要负责数据收集工作组的活动开展。



Speaker Bio 嘉宾介绍

Zelia Kranich

Sustainable Sourcing Associate Director, Merck & Co., Inc., (Merck Sharp & Dohme outside the United States and Canada)

可持续采购副总监，默沙东（在美国和加拿大称为默克公司）

- Zelia is the Sustainable Sourcing Associate Director at Merck & Co., Inc, where she manages supplier environmental sustainability engagement and the procurement process globally. Zelia has over 25 years' experience in the Environmental field, including managing Estee Lauder and Pitney Bowes Environmental Compliance and Sustainability programs globally. Together with Rikke, she leads the PSCI Environment sub-team, particularly around supplier capacity building and training.
- Zelia 为默沙东的可持续发展副总监, 负责供应商在环境方面可持续发展的倡导及参与管理与全球采购流程。Zelia 在环境领域有25年的工作经验, 其中包含在雅诗兰黛及必能宝 (Pitney Bowes) 的环境合规及全球可持续发展项目。Zelia与Rikke共同作为PSCI环境小组领导团成员, 主要关注供应商能力建设与培训。



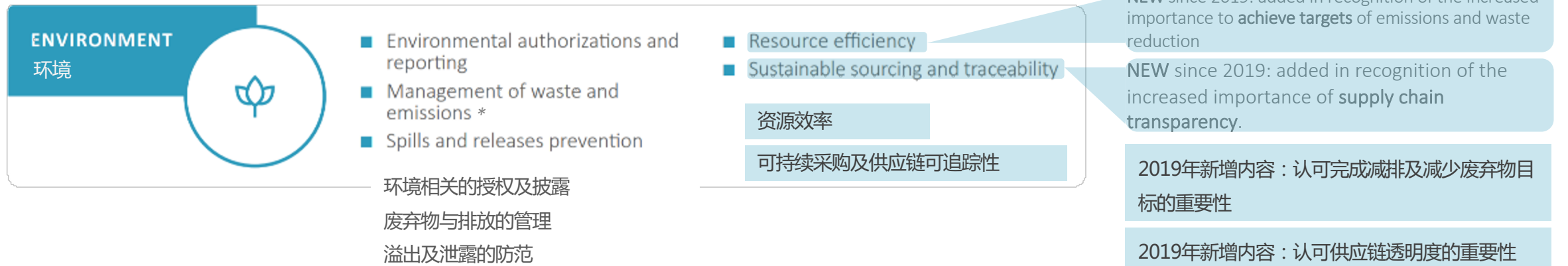
About the Sub-Team 关于环境小组

89 members from 39 PSCI member companies

89名成员来自 39家PSCI成员企业

Responsibilities of the sub-team

环境小组的职责范围



*Includes "managing the release of Pharmaceuticals into the Environment"

*包含“管理环境中的药物”

Update of PSCI Principles PSCI 原则更新

Previous version 旧版

Environment

Suppliers shall operate in an environmentally responsible and efficient manner to minimize adverse impacts on the environment. Suppliers are encouraged to conserve natural resources, to avoid the use of hazardous materials where possible and to engage in activities that reuse and recycle. The environmental elements include:

1. Environmental Authorizations

Suppliers shall comply with all applicable environmental regulations. All required environmental permits, licenses, information registrations and restrictions shall be obtained and their operational and reporting requirements followed.

环境

供应商应依照对环境负责及有效原则运营以降低对环境的负面影响。鼓励供应商保护自然资源，在可能的情况下避免使用危险物质，并积极实践资源的循环使用。环境方面的要素包括：

1. 环境相关授权

供应商应遵守适用的各环境法规。应取得相关许可证、执照、完成相关信息注册并在限定范围内开展经营活动，严格根据要求运营及定期报告。

2. 废弃物及排放

供应商应有确保废弃物、气体排放及污水的处理、移动、存放、回收、再利用及管理的相关体系。妥善管控及追踪任何可能对人体或环境造成影响的废弃物、废水或排放，以避免污染外部环境。

3. 溢出及泄露

供应商应有相关体系以防止并降低溢出及泄露至外部环境的风险。

Updated version effective 01 January 2020 新版（2020年1月1日生效）

Environment

Suppliers shall operate in an environmentally responsible and efficient manner to minimize adverse impacts on the environment. Suppliers are encouraged to conserve natural resources, to avoid the use of hazardous materials where possible and to engage in activities that reuse and recycle. The environmental elements include:

1. ENVIRONMENTAL AUTHORIZATION

Suppliers shall comply with all applicable environmental regulations. All required environmental permits, licenses, information registrations and reporting requirements followed.

2. WASTE AND EMISSIONS

Suppliers shall have systems in place to ensure recycling, reuse, or management of waste, wastewater or emissions with the potential to be appropriately managed, controlled and to include managing releases of active pharmaceutical ingredients.

3. SPILLS AND RELEASES

Suppliers shall have systems in place to prevent environmental and adverse impacts on the local community.

4. RESOURCE USE

Suppliers shall take measures to improve efficiency and reduce resource consumption.

5. SUSTAINABLE SOURCING AND TRACKING

Suppliers shall carry out due diligence on their suppliers to ensure sustainable sourcing.

环境

供应商应依照对环境负责及有效原则运营以降低对环境的负面影响。鼓励供应商保护自然资源，在可能的情况下避免使用危险物质，并积极实践资源的循环使用。环境方面的要素包括：

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2. 废弃物及排放

供应商应有确保废弃物、气体排放及污水的处理、移动、存放、回收、再利用及管理的相关体系。妥善管控及追踪任何可能对人体或环境造成影响的废弃物、废水或排放，以避免污染外部环境，**包括管理环境中的活性药物排放（环境中的药物）**

3. 溢出及泄露

供应商应有相关体系以防止并降低溢出及泄露至外部环境的风险，**及对当地社区的负面影响。**

4. 资源利用

供应商应采取减少资源消耗并提高资源利用的效率

5. 可持续采购及供应链可追踪性

供应商应针对关键原材料开展尽职调查，以推进合法的、可持续的采购实践

PSCI Principles on the Environment PSCI

PSCI环境相关原则

Environmental authorizations and reporting 环境授权管理和披露

- Complying with applicable **environmental regulations** (permits, licenses, registrations...) 遵守适用的环境法规（许可证、执照、登记等）
- **Operational and reporting requirements followed** 遵守执行和报告的要求

Management of waste and emissions 废弃物和排放管理

- **Systems in place** for safe handling, movement, storage, disposal, recycling, reuse or management of waste/emissions 确保有废弃物、气体排放及污水的处理、转移、存放、回收、再利用及管理的相关体系
- **Proper management** of waste, air emissions and wastewater discharges with potential adverse effects to humans or environment. 妥善管控及追踪任何可能对人体或环境造成影响的废弃物和废水排放，以避免污染外部环境。

Spills and releases prevention 溢出与泄露

- **Systems in place to prevent and mitigate** accidental spills and releases to the environment and adverse impacts on local communities. 供应商应有相关体系以防止并降低溢出及泄露至外部环境的风险。

Resource efficiency 资源效率

- **Improving efficiency and reducing the consumption** of resources. 提高资源效率和减少资源浪费

Sustainable sourcing and traceability 可持续采购和供应链追溯

- **Due diligence** on the **source** of critical raw materials to promote legal and sustainable sourcing. 对关键原材料进行尽职调查以确保合法性和可持续的采购

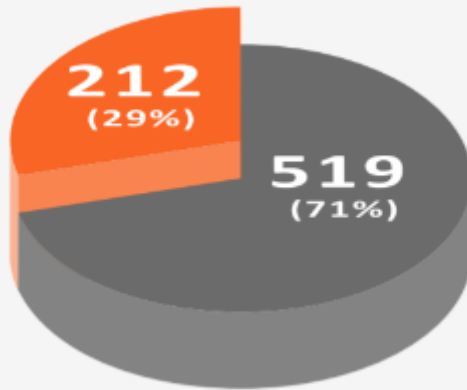
We work in two tracks 两个工作方向

Environmental sustainability survey

环境可持续调查

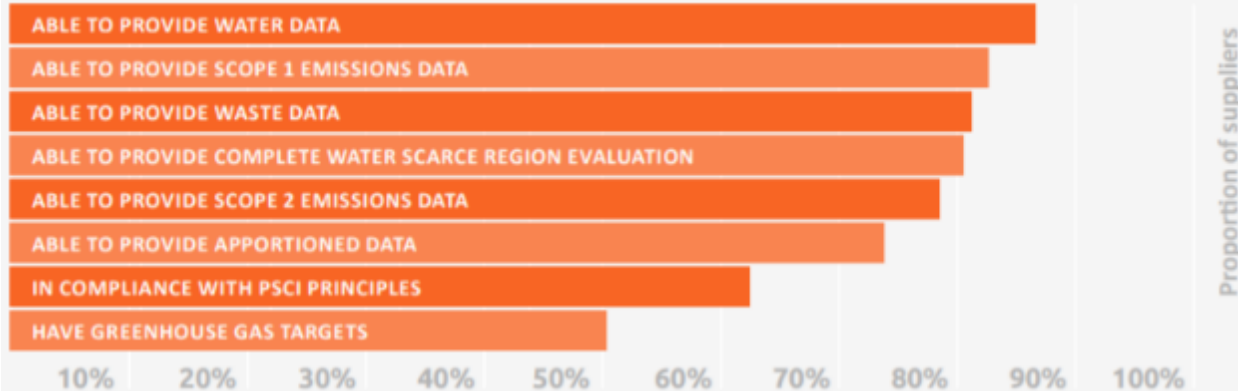
- Supplier survey 供应商问卷
 - Establish programme 确立方案
 - Manage impacts 管理影响
 - Greenhouse Gas 温室气体排放
 - Waste 废弃物
 - Water 水
 - Reduce emissions 减少气体排放
 - Apportion emissions 分配排放量
- Benefits for suppliers 对供应商的好处
- Benefits for PSCI members 对PSCI 成员的好处

SUPPLIERS SHARING SUSTAINABILITY DATA 2018



■ Unique ■ Overlapping

SUPPLIER SUSTAINABILITY DATA CAPABILITIES Based on Ecodesk data research



培训

- 10 categories of specialised areas of knowledge 10类专业知识领域
- 4 levels 四个阶段
- 10 modules level 1 on The Link 第一级的十个模块已上传到PSCI线上平台 (The Link)



Supplier Environmental Training 供应商环境培训

	Level 1: Foundational 'primers' <i>Downloadable guide for suppliers</i>	Level 2: Tools & techniques <i>Online videos and links</i>	Level 3: Specialised content <i>'Live' webinars with external input</i>
	第一级: 基础入门知识 可供下载的供应商指导	第二级: 应用工具 线上学习视频及链接	第三级: 专题内容 链接外部资源的线上课程
The PSCI 环境相关原则	<ul style="list-style-type: none"> The PSCI各项原则的内容是? 预期如何? 审计与合规 	<ul style="list-style-type: none"> 根据各类原则进行准备案例学习 	<ul style="list-style-type: none"> 客户预期 (The PSCI 原则之外)
环境管理	<ul style="list-style-type: none"> 指定环境相关政策 EMS基础知识 绩效评估 	<ul style="list-style-type: none"> 标准与认证 设定目标 	<ul style="list-style-type: none"> 建立基于科学的目标
合规和预防	<ul style="list-style-type: none"> 理解相关立法及责任范围 安全的操作流程 管理溢出及泄露 	<ul style="list-style-type: none"> 意外发生时如何应对溢出及泄露管理的最佳实践 	<ul style="list-style-type: none"> 实时监控及市民科学 (citizen science)
气候变化	<ul style="list-style-type: none"> 什么是气候变化? 温室气体的来源 测量的基础知识 	<ul style="list-style-type: none"> 碳足迹测算 scope 3 	<ul style="list-style-type: none"> 建立碳排放相关战略
能源效率	<ul style="list-style-type: none"> 能耗管理 行为调整 可实现效率提高的领域 	<ul style="list-style-type: none"> 工厂设计的完善 可再生能源的机遇 	<ul style="list-style-type: none"> 可再生能源的机遇
绿色物流	<ul style="list-style-type: none"> 什么是绿色物流 物流配送的影响 公务出行 	<ul style="list-style-type: none"> 陆运 vs 海运 vs 空运 新技术 (如电动车等) 	<ul style="list-style-type: none"> EV100原则
包装	<ul style="list-style-type: none"> 包装类型 理解包装的影响 塑料 	<ul style="list-style-type: none"> 回收实践的机遇 合理的包装尺寸与优化 	<ul style="list-style-type: none"> 减塑
原材料	<ul style="list-style-type: none"> 原材料采购 关键材料及问题 客户预期 	<ul style="list-style-type: none"> 重要的原材料标准 理解原材料追踪问题 	<ul style="list-style-type: none"> 矿物资源冲突
水资源	<ul style="list-style-type: none"> 水资源管理 水资源质量 减少水资源消耗 	<ul style="list-style-type: none"> 理解水资源相关风险 水资源稀缺程度测算 	<ul style="list-style-type: none"> 绿色化学与有害化学物质零排放 (ZDHC)
废弃物	<ul style="list-style-type: none"> 废弃物等级 废弃物管理基础知识 废弃物管理 	<ul style="list-style-type: none"> 制定废弃物管理政策 回收和再利用的机遇 	<ul style="list-style-type: none"> 零废弃物填埋
PSCI VIRTUAL 环境中药物残留 (PiE) 及抗微生物药物耐药性 (AMR)	<ul style="list-style-type: none"> 管理API排放的重要性 制定跟公司相关标准并且符合PSCI对PiE/AMR的要求 制定API排放限值 	<ul style="list-style-type: none"> PiE/AMR的风险评估技术 减少API流失的技术 液体、固体废弃物排放, 零液体排放 	<ul style="list-style-type: none"> 废水处理运作与维护 API排放和 (或) 废水治理有效性分析 合规审核和准备PiE/AMR审计

Level 4 (Expert access) will be agreed on a case by case basis as discussions and content are likely to be very specific.

Accessing the resources 访问资源



PSCI线上平台登陆页面
<https://pscinitiative.org/login>

ABOUT US WHAT WE DO NEWS RESOURCES EVENTS CONTACT

Accessing the resources 访问资源

PSCI线上平台登陆后页面



Access the resources 访问资源

NEWS RESOURCES EVENTS MY SITES CONTACT
新闻 资源 活动 我的工厂 联系



WE WANT YOUR VIEWS! ASSESSING PSCI'S IMPACT FOR SUPPLIERS

We encourage all suppliers to participate, to help the PSCI understand the impact it has on suppliers.

VIEW SURVEY

NEWS ?

Search



SORT BY DATE

ALL POSTS

ALL TOPICS

Valentina Okolo published this bulletin on 7 August

ANNOUNCING: PSCI PRINCIPLES AVAILABLE IN CHINESE, JAPANESE AND GERMAN

We are pleased to announce that the PSCI Principles In Chinese, Japanese and German are now live on the Link.

To view the Principles, visit them in our Resources library.

AUDIT PLATFORM ?

Share audits or assessments of your sites with PSCI members.

Name		Last Audit ?	Last SAQ ?	
[REDACTED]	0	20 Nov 2016 Full Audit	None	

My sites →

UPCOMING EVENTS ?

Read more about or register your interest for our events

ETHICS WEBINAR - ANTI-BRIBERY AND CORRUPTION & GDPR
27 AUG 2020 08:00 - 09:00 GMT-04:00

All events →

Accessing the resources 访问资源



Select 'Environment' topic
选择 'Environment (环境)' 主题

Select 'Training' category
选择 'Training (培训)' 类别

RESOURCES ?

Search

完成筛选后点击搜索

ALL TOPICS ALL CATEGORIES ALL TYPES ALL AUDIENCES

1 2 3 4 5 all

Blake Zheng published this resource on 7 July

PSCI WEBINAR: COMBUSTIBLE DUST HAZARDS - RECORDING AND SLIDES 可燃性粉尘的安全管理 (活动录像及PPT)

WEBINAR

This webinar first aired on 3 July and discussed the safety issue surrounding combustible dust and best practices 本次分享会于7月3日在线上举行, 探讨了可燃性粉尘的安全隐患及相关领域的最佳实践。

MORE INFO...

KEY RESOURCES

Organisational Information
THE PSCI PRINCIPLES

Document
AUDIT GUIDANCE FOR PSCI AUDITS

Organisational Information Video
VIDEO INTRODUCTION TO THE PSCI

Document

Accessing the resources 访问资源

搜索结果页面

The screenshot shows the PSCI (Pharmaceutical Supply Chain Initiative) website search results page. At the top, the PSCI logo is displayed with the tagline 'Building responsible supply chains'. A banner at the top right reads 'YOUR VIEWS! ASSESSING PSCI'S IMPACT FOR SUPPLIERS' and 'Invite your suppliers to participate, to help the PSCI understand the impact it has on suppliers'. Below the banner is a 'NEWS' section with a search bar and several filter buttons: 'SORT BY DATE', 'RESOURCES', 'ENVIRONMENT', 'ALL SUBTOPICS', 'TRAINING', and 'ALL RESOURCES'. A 'CLEAR FILTERS' button is also present. The main content area shows a resource published by Alejandro Fiocco 20 minutes ago. The resource title is 'CLIMATE CHANGE: PSCI SUPPLIER ENVIRONMENTAL TRAINING - PRIMER SERIES' with a Chinese translation '气候变化：PSCI供应商环境培训-入门知识'. A yellow 'TRAINING' tag is visible. The introductory text states: 'In support of the PSCI Principles, this training guide will help you to reduce your environmental impact and improve your performance. This primer focuses on the basics of Climate Change and will explain:'. A grey box at the bottom of the resource preview contains the text 'What is Climate Change?'.

PSCI COMMON FRAMEWORK 成熟度模型

Starting out	Developing	Implementing	Leading
<ul style="list-style-type: none"> Compliance with law Necessary policies in place Minimum standards are being met 	<p>PLUS</p> <ul style="list-style-type: none"> Audits / baselines / risk assessments complete Key risks and highest impacts identified Measurement and recording systems in place Management responsibility has been allocated Targets and objectives set 	<p>PLUS</p> <ul style="list-style-type: none"> Processes in place with clear responsibilities for key staff Employees are aware and trained as appropriate Targets generally being achieved Improvement projects External verification External partnerships being developed Public reporting or other transparency Risks are adequately managed 	<p>PLUS</p> <ul style="list-style-type: none"> Embedded in culture External recognition / awards Taking an advocacy stance Approach includes whole value chain External partnerships across industry Supporting partners / customers to improve. Sustainability drives innovation Sustainability leads to differentiation and commercial advantage
起点	发展	执行	领导
<ul style="list-style-type: none"> 法律合规 制定必要政策 满足最低标准 	<p>增加</p> <ul style="list-style-type: none"> 审计报告/基本准则/完成风险测评 识别关键风险及最大影响 绩效评估及追踪体系 管理职责合理分配 设定目标 	<p>增加</p> <ul style="list-style-type: none"> 明确核心员工责任的流程 员工意识及培训 目标普遍完成 改进项目 外部核查 发展外部合作伙伴 对外披露及其他透明度实践 风险得到充分管理 	<p>增加</p> <ul style="list-style-type: none"> 可持续发展文化 外部认可及奖励 承担倡导角色 全供应链的策略 跨行业的外部伙伴 支持合作伙伴/客户的成长. 可持续发展激发创造力 可持续发展带来的差异化定位及商业优势

Environmental Maturity Model – Example Draft

环境成熟度模型 – 示例草稿

- Several groups considering Maturity Models and more likely in future 许多小组正在考虑使用成熟度模型
- Each Model will have different technical content depending on the subject. 每个成熟度模型会根据专业内容有不同
- We see the need for a common framework to ensure alignment and consistency 我们认为需要一个共同的框架，以确保统一性和一致性

PSCI Principles PSCI原则	Starting out 起点	Developing 发展	Implementing 执行	Leading 领导
Environmental authorisations and reporting 环境相关授权与披露				
Waste and emissions 废弃物和排放管理				
Spills and releases 溢出与泄露				
Resource use 资源使用				
Sustainable sourcing and traceability 可持续采购和供应链追溯				

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[@PSCIinitiative](#)

WeChat

[制药供应链组织PSCI](#)

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About the Secretariat

Carnstone Partners Ltd is an independent management consultancy, specialising in corporate responsibility and sustainability, with a long track record in running industry groups.

