

# USI永續產品或服務的投入 / 投資 (1/2)

| 主軸                | 在研發方面的投入或投資                                                                                                                                                                                                                                       | 在生產製造 / 設備 / 維護的投入或投資                                                                                                                                                                                                           |
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| 安全性<br>( 有害物質管理 ) | <ul style="list-style-type: none"> <li>因應全球綠色產品法令的增進，及多元客戶對綠色產品標準的要求，公司建置對全球綠色產品法令熟知的專業管理單位，對廠內研發、品管等相關單位與供應商進行教育訓練，以符合法令 / 指令要求</li> <li>建立法令 / 指令 / 客戶要求相關管理機制，對原材料成分及供應商進行審查，並彙整產品專案工程評估 / 設計 / 製造階段之相關符合性文件</li> </ul>                        | <ul style="list-style-type: none"> <li>推行全球綠色產品供應鏈管理系統化，建制GPARS綠色產品供應鏈管理平臺，以提升綠色產品資料正確性</li> <li>依據QC 080000有害物質流程管理系統的監督及量測原則，進行原材料的管控，於各廠區設置XRF ( X-Ray Fluorescence Spectrometer 儀器進行有害物質進料管控；年度設備維護與耗材費約人民幣19萬元</li> </ul>  |
| 可回收<br>( 回收與再利用 ) | <ul style="list-style-type: none"> <li>推動POS產品與手持式產品進行模組化設計及周邊設備共用策略，預估可降低約15%拆裝維修時間，減少周邊設備重複採購</li> <li>手持式產品採用易更換電池設計，將產品使用壽命延長5-7年</li> <li>塑膠零件設計導入PCR材料，鋁合金零件逐步導入PIR ( Post-Industrial Recycled Material ) 加PCR再生材料，以降低資源消耗與產品碳足跡</li> </ul> | <ul style="list-style-type: none"> <li>針對量產產品導入再生材料之可行性評估，每年選定數項量產產品，製作數十至上百組不同的PCR材料樣品，並執行製程參數實驗設計 ( Design of Experiment, DOE ) 及產品可靠度測試，蒐集完整實驗數據以評估材料之加工性、品質穩定性及產品適用性。單一材料之評估投入成本約達人民幣數萬元，每年平均完成3至5種PCR材料之驗證與導入評估</li> </ul> |

# USI永續產品或服務的投入 / 投資 (2/2)

| 主軸             | 在研發方面的投入或投資                                                                                                                                                                                                              | 在生產製造 / 設備 / 維護的投入或投資                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 低碳排<br>(節能設計)  | <ul style="list-style-type: none"> <li>研發工程單位須參照綠色產品設計要求，優先選用符合高能源效能之電源供應材料，並要求供應商提供相關設計資料與符合性文件；對出貨產品進行能耗測試，且提供相關測試報告，以評估是否符合環境化設計要求</li> <li>USI建置電源 / 軟硬體相關測試團隊與實驗室，進行產品能耗測試與相關的可靠度驗證，與安全性驗證，並對其作業人員進行操作訓練</li> </ul> | <ul style="list-style-type: none"> <li>為符合客戶產品碳足跡盤查需求，需建立盤查團隊，以展開產品生命週期各階段的工作指派，與必要資訊的蒐集。為符合ISO 14067標準，邀請顧問進行輔導並進行第三方查證，每個系列產品預估產生費用人民幣6.8萬元</li> </ul>                                                                                                                                                                                                                                                               |
| 省資源<br>(微小化設計) | <ul style="list-style-type: none"> <li>在SiP產品採用金屬銅柱設計與噴濺鍍層製程；SOM產品則採用金屬零件屏蔽網（Shield Fence）與噴濺鍍層製程，可以使我們設計的產品有效屏蔽電磁波干擾</li> </ul>                                                                                         | <ul style="list-style-type: none"> <li>為因應設計需求，在不同製程上我們購置相關設備，投資費用至少約人民幣2.23千萬元，以提升在微小產品的製造能力：               <ul style="list-style-type: none"> <li>( 1 ) 銅柱與3D SiP製造上購置微細製程與精密貼裝設備</li> <li>( 2 ) 噴濺鍍層製程上購置PVD ( Physical Vapor Deposition ) 真空設備</li> <li>( 3 ) 屏蔽網製程上購置精密金屬加工加自動組裝的機台設備</li> <li>( 4 ) 模塑 / 封膠製程上購置Transfer Mold, Compression Mold, VPE ( Vacuum-Pressure Encapsulation ) 設備</li> </ul> </li> </ul> |

# Sustainable Product or Service Investments (1/2)

| Main aspect                                     | R&D resources to develop sustainable products or services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Infrastructure improvements to ensure products and services are produced/manufactured/maintained sustainably                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety (Hazardous Substances Management)</b> | <ul style="list-style-type: none"> <li>Established a dedicated regulatory compliance team to monitor global green product regulations and customer requirements, and deliver training across R&amp;D, quality, and suppliers to ensure compliance.</li> <li>Implemented lifecycle-based compliance management, including material composition review, supplier screening, and documentation control from design and engineering evaluation through manufacturing.</li> </ul>                                                                   | <ul style="list-style-type: none"> <li>Promoted the GPARS platform to standardize global green product supply chain management and enhance the accuracy and traceability of compliance data.</li> <li>Implement QC 080000-compliant hazardous substance management, deploying X-ray fluorescence (XRF) testing across sites for incoming material control. Annual equipment maintenance and consumable costs amount to approximately CNY 190 thousand.</li> </ul>                                                                              |
| <b>Circular (Recyclability and Reuse)</b>       | <ul style="list-style-type: none"> <li>Adopted modular design and shared peripheral strategies for POS and handheld products, reducing disassembly and maintenance time by approximately 15% and minimizing redundant equipment.</li> <li>Designed handheld devices with replaceable batteries, extending product lifecycles to 5–7 years.</li> <li>Integrated recycled materials, including PCR plastics and progressive use of PIR/PCR in aluminum components, to reduce resource consumption and product carbon footprint (PCF).</li> </ul> | <ul style="list-style-type: none"> <li>Evaluated the feasibility of recycled materials in mass production through structured validation programs and conducted extensive testing, including PCR sample preparation (dozens to hundreds), DOE analysis, and reliability verification, to assess processability and quality stability. Material assessment and validation costs approximately tens of thousands of CNY per material, with an average of 3 to 5 PCR materials assessed annually to support scalable circular adoption.</li> </ul> |

# Sustainable Product or Service Investments (2/2)

| Main aspect                                 | R&D resources to develop sustainable products or services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Infrastructure improvements to ensure products and services are produced/manufactured/maintained sustainably                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Low-carbon (Energy Saving Design)           | <ul style="list-style-type: none"> <li>Applied green product design principles by prioritizing high-efficiency power components and requiring suppliers to provide design and compliance data.</li> <li>Conducted product-level energy consumption testing and validate compliance with eco-design requirements through formal reporting.</li> <li>Established dedicated labs and cross-functional teams (power, hardware, software) to perform energy, reliability, and safety testing, supported by standardized training to ensure consistency and quality.</li> </ul> | <ul style="list-style-type: none"> <li>Established dedicated PCF inventory teams to assign lifecycle responsibilities and ensure complete data collection. External consultants are engaged to support ISO 14067 compliance and third-party verification, with verification costs of approximately CNY 68 thousand per product series.</li> </ul>                                                                                                                                                                                                                                                                 |
| Resource-efficient (Miniaturization Design) | <ul style="list-style-type: none"> <li>Enhanced material efficiency and functional performance through advanced structural and process design, including copper pillar and sputtering technologies in SiP and SOM products.</li> <li>Improved electromagnetic interference (EMI) shielding performance, enabling optimized material use and improved product reliability.</li> </ul>                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Invested more than CNY 22.3 million in advanced manufacturing equipment to support miniaturization and resource-efficient production. Key technologies are deployed across processes:               <ol style="list-style-type: none"> <li>(1) Precision placement for copper pillar and 3D SiP</li> <li>(2) Physical Vapor Deposition vacuum equipment for sputtering</li> <li>(3) Automated metal processing for shield fence applications</li> <li>(4) Advanced molding and encapsulation (transfer, compression, Vacuum-Pressure Encapsulation)</li> </ol> </li> </ul> |

# USI可持续产品或服务的投入 / 投资 (1/2)

| 主轴                | 在研发方面的投入或投资                                                                                                                                                                                                                                   | 在生产制造 / 设备 / 维护的投入或投资                                                                                                                                                                                                         |
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| 安全性<br>( 有害物质管理 ) | <ul style="list-style-type: none"><li>因应全球绿色产品法令的增进，及多元客户对绿色产品标准的要求，公司建置对全球绿色产品法令熟知的专业管理单位，对厂内研发、品管等相关单位与供货商进行教育培训，以符合法令 / 指令要求</li><li>建立法令 / 指令 / 客户要求相关管理机制，对原材料成分及供应商进行审查，并汇整产品项目工程评估 / 设计 / 制造阶段之相关符合性文件</li></ul>                       | <ul style="list-style-type: none"><li>推行全球绿色产品供应链管理系统化，建制GPARS绿色产品供应链管理平台，以提升绿色产品数据正确性</li><li>依据QC 080000有害物质流程管理系统的监督及量测原则，进行原材料的管控，于各厂区设置XRF ( X-Ray Fluorescence Spectrometer 仪器进行有害物质进料管控；年度设备维护与耗材费约人民币19万元</li></ul>   |
| 可回收<br>( 回收与再利用 ) | <ul style="list-style-type: none"><li>推动POS产品与手持式产品进行模块化设计及接口设备共享策略，预估可降低约15%拆装维修时间，减少接口设备重复采购</li><li>手持式产品采用易更换电池设计，将产品使用寿命延长5-7年</li><li>塑料零件设计导入PCR材料，铝合金零件逐步导入PIR ( Post-Industrial Recycled Material ) 加PCR再生材料，以降低资源消耗与产品碳足迹</li></ul> | <ul style="list-style-type: none"><li>针对量产产品导入再生材料之可行性评估，每年选定数项量产产品，制作数十至上百组不同的PCR材料样品，并执行制程参数实验设计 ( Design of Experiment, DOE ) 及产品可靠度测试，搜集完整实验数据以评估材料之加工性、质量稳定性及产品适用性。单一材料之评估投入成本约达人民币数万元，每年平均完成3至5种PCR材料之验证与导入评估</li></ul> |

# USI可持续产品或服务的投入 / 投资 (2/2)

| 主轴             | 在研发方面的投入或投资                                                                                                                                                                                                           | 在生产制造 / 设备 / 维护的投入或投资                                                                                                                                                                                                                                                                                                                                                       |
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| 低碳排<br>(节能设计)  | <ul style="list-style-type: none"><li>研发工程单位须参照绿色产品设计要求，优先选用符合高能源效能之电源供应材料，并要求供应商提供相关设计数据与符合性文件；对出货产品进行能耗测试，且提供相关测试报告，以评估是否符合环境化设计要求</li><li>USI建置电源 / 软硬件相关测试团队与实验室，进行产品能耗测试与相关的可靠度验证，与安全性验证，并对其作业人员进行操作培训</li></ul> | <ul style="list-style-type: none"><li>为符合客户产品碳足迹盘查需求，需建立盘查团队，以展开产品生命周期各阶段的工作指派，与必要信息的搜集。为符合ISO 14067标准，邀请顾问进行辅导并进行第三方查证，每个系列产品预估产生费用人民币6.8万元</li></ul>                                                                                                                                                                                                                      |
| 省资源<br>(微小化设计) | <ul style="list-style-type: none"><li>在SiP产品采用金属铜柱设计与喷溅镀层制程；SOM产品则采用金属零件屏蔽网（Shield Fence）与喷溅镀层制程，可以使我们设计的产品有效屏蔽电磁波干扰</li></ul>                                                                                        | <ul style="list-style-type: none"><li>为因应设计需求，在不同制程上我们购置相关设备，投资费用至少约人民币2.23千万元，以提升在微小产品的制造能力：<ul style="list-style-type: none"><li>（1）铜柱与3D SiP制造上购置微细制程与精密贴装设备</li><li>（2）喷溅镀层制程上购置PVD（Physical Vapor Deposition）真空设备</li><li>（3）屏蔽网制程上购置精密金属加工加自动组装的机台设备</li><li>（4）模塑 / 封胶制程上购置Transfer Mold, Compression Mold, VPE（Vacuum-Pressure Encapsulation）设备</li></ul></li></ul> |