

Chinachem Group Sustainability Conference 2024

Integrating Sustainability Solutions towards a Resilient Future



Moderator: Ms Olivia TO, Senior Vice President (Sustainability) Technology, Innovation and Entrepreneurship, Invest Hong Kong

Panel Discussion

“Disruptive Ideas from Young Visionaries for Driving Positive Change”

Summary

Ms Rosie CHAN, Founder & CEO, JAPJAP Zero Waste Limited

- JAPJAP Zero Waste Limited focuses on transforming food waste management by combining innovation, technology, and environmental responsibility, with the application of Black Soldier Fly technology.
- Ms CHAN emphasised viewing food waste as a resource within a circular economy rather than merely a disposal issue.
- She developed a modular, IoT-enabled unit for efficient on-site food waste processing.
- She promoted a decentralised approach to waste management, reducing transportation emissions.
- She aimed to create a true circular economy by repurposing food waste into valuable byproducts like fertilisers and animal feed.
- She encouraged communities to adopt zero-waste practices through innovative technology.
- She sought to inspire a shift in mindset about food waste management in urban environments.

Dr Simson WU, CEO and Co-Founder, Oxford Green Innotech

- Oxford Green Innotech specialises in ammonia and hydrogen technologies.
- Dr WU developed the world's first wind energy to ammonia energy storage plants, enabling renewable energy transport.
- He focused on creating backup power solutions with zero emissions, replacing traditional diesel generators.
- He targeted the off-grid power generation market, which presents significant growth potential.
- He was keen on collaborating with governments to deploy ammonia generators in backup and offgrid power supply, such as telecom stations, construction sites, and data centres, aiming for decarbonisation.
- He innovated beyond generators by developing ammonia-powered mobility solutions, including drones and shipping technologies.
- He highlighted the importance of R&D in overcoming challenges related to converting ammonia back to energy.

Mr ZHANG Shangchen, Co-chair, Global Alliance of Universities on Climate COP27 Youth Delegation; Co-Founder, Student Association on Net-zero Future, Tsinghua University

- Mr ZHANG as a researcher assessed the health impacts of climate change and urban planning.
- He advocated for integrating health considerations into climate change discussions and city planning.
- He explored the connection between climate change, extreme weather, and public health outcomes.
- He stressed the need for resilient infrastructure to mitigate health risks from climate extremes.
- He was experienced in COP negotiations, emphasising the importance of health in climate action.
- He observed a growing recognition of health issues as central to achieving higher carbon reduction goals.
- He aimed to develop cost-effective adaptation strategies for communities facing climate-related health challenges.

Dr Martin ZHU, Co-founder, i2Cool Limited

- i2Cool Limited focuses on electricity-free cooling technology inspired by nature.
- Dr ZHU developed cooling materials based on the Sahara Silver Ants' self-cooling properties.
- He aimed to reduce energy consumption in various applications, including buildings and vehicles.
- He emphasises the importance of thermal comfort and reducing carbon emissions in hot climates.
- He sought to apply innovative cooling solutions to underprivileged communities to improve living conditions.
- He highlighted the role of technology for good, balancing business success with social impact.
- He engaged in partnerships with NGOs to promote sustainability and carbon neutrality in diverse regions.

Organiser

Co-organisers



華懋集團

可持續發展論壇 2024

多元可持續發展方案 應對未來挑戰



主持人：投資推廣署高級副總裁（碳中和）科技、創新和創業 杜珮煒女士

專題討論

「年青創新視野 推動正向變革」

重點

為食櫃有限公司創辦人兼行政總裁陳文慧女士

- 為食櫃廚餘管理有限公司通過結合創新、技術及環境責任，並應用黑水虻生物技術，革新廚餘管理方案。
- 陳女士強調把廚餘視為循環經濟中的資源，而非一個處置廢棄物的問題。
- 她開發了一個支持物聯網（IoT）的模塊系統，以達致高效的現場廚餘處理。
- 她推廣去中心化的廢物管理方法，以減少運輸排放。
- 她的目標是通過把廚餘轉化為有價值的副產品，如肥料和動物飼料，創造真正的循環經濟。
- 她鼓勵社區通過創新技術達致零廢棄做法。
- 她希望激發城市環境中對廚餘管理的思維轉變。

牛津綠色創能有限公司首席執行官兼聯合創始人胡信誠博士

- 牛津綠色創能有限公司專注於氨和氫技術。
- 胡博士開發了全球首個風能轉氨能儲存廠，實現可再生能源的輸送。
- 他專注於創造零排放的備用電源解決方案，以取代傳統的柴油發電機。
- 他針對脫離電網的發電市場，並認為該市場具有顯著的增長潛力。
- 他致力與政府合作，在備用和離網電力供應中部署氨發電機，例如電訊站、建築地盤和數據中心，以實現減碳目標。
- 他在發電機以外推動創新，開發氨動力的移動解決方案，包括無人機和航運技術。
- 他強調研發在克服將氨轉換回能源相關挑戰中的重要性。

世界大學氣候變遷聯盟COP27青年團聯主席團長及清華大學學生零碳未來協會共同發起人張尚辰先生

- 張先生作為研究人員，致力評估氣候變化和城市規劃對健康的影響。
- 他倡導在氣候變化討論和城市規劃中融入健康考量。
- 他探討了氣候變化、極端天氣與公共健康之間的聯繫。
- 他強調需要韌性基礎設施來減輕氣候極端事件帶來的健康風險。
- 他在聯會國氣候變化大會（COP）談判中積累了豐富經驗，強調健康在氣候行動中的重要性。
- 他觀察到健康問題越來越受到重視，並成為實現更高碳減排目標的核心。
- 他的目標是為面臨氣候相關健康挑戰的社區制定具成本效益的適應策略。

創冷科技聯合創始人及行政總裁朱毅豪博士

- 創冷科技專注於受自然啟發的無電冷卻技術。
- 朱博士開發了基於撒哈拉沙漠「銀蟻」自我冷卻特性的冷卻材料。
- 他的目標是減少在各種應用中的能源消耗，包括建築和交通工具。
- 他強調在炎熱氣候中熱舒適性和減少碳排放的重要性。
- 他希望將創新的冷卻解決方案應用於弱勢社群，以改善其生活條件。
- 他突出了技術為善的角色，以及平衡商業成功與社會影響。
- 他與非牟利機構建立夥伴關係，以促進不同地區的可持續發展和碳中和。

Organiser

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