國立臺北大學自然資源與環境管理研究所 112 學年度第一學期『環境工程科學概論』

課程講義(15):企業永續與與淨零排放 Corporate Sustainability and Net Zero Emission

• SUSTAINABLE DEVELOPMENT

- "Definition" of Sustainable Development
 Sustainable development has been defined as development that meets the needs of the present
 - without compromising the ability of future generations to meet their own needs. (https://www.un.org/sustainabledevelopment/development-agenda/)
- □ Conferences | Environment and sustainable development | United Nations
 - \Rightarrow 2022 <u>Stockholm+50</u>
 - ⇒2015 UN Sustainable Development Summit + UNFCCC COP21
 - ⇒2012 UN Conference on Sustainable Development (Rio+20 Earth Summit)
 - \Rightarrow 2002 World Summit on Sustainable Development
 - \Rightarrow 1997 Earth Summit+5
 - ⇒1992 UN Conference on Environment and Development (Rio Earth Summit)
 - \Rightarrow 1972 United Nations Conference on the Environment
- □ Conventions, Initiatives, Frameworks, and Nexus => Outcomes of the Summits
 - \Rightarrow Stockholm+50: A healthy planet for the prosperity of all our responsibility, our opportunity
 - ⇒UNSD Summit: Agenda 2030 (SDGs); UNFCCC COP21: Paris Agreement
 - ⇒Rio+20: The Future We Want; Rio+10: WEHAB Framework
 - \Rightarrow Rio Earth Summit: Agenda 21, UNFCCC, ISO 14000 series Standards...
- □ SDG Summit 2023 | United Nations

•UN SUSTAINABLE DEVELOPMENT GOALS

- DUN Millennium Development Goals
- DUN Sustainable Development Goals
 - \Rightarrow 2030 Agenda for Sustainable Development
 - \Rightarrow 17 Goals => 169 targets => 232 indicators
 - ⇒Voluntary National Review (VNR) => VLR, VDR =><u>永續發展自願檢視(ndc.gov.tw)</u>
 - \Rightarrow The 5P Principles: Prosperity, People, Planet, Peace, Partnership
- □ Taiwan's Sustainable Development Goals 臺灣永續發展目標
 - \Rightarrow "The 18th Goal" => 2030 (or 2025) Agenda for Sustainable Development
 - \Rightarrow 18 Goals => 143 targets => 336 indicators
 - ⇒Targets 具體目標? Indicators 對應指標?
- □ SDG Summit 2023 | United Nations
- □ Beyond 2030
 - ⇒The World in 2050 (https://www.unsdsn.org/the-world-in-2050)
 - ⇒<u>Our Common Agenda | United Nations</u> => <u>Summit of the Future</u> => <u>12 Commitments</u>
 - ⇒<u>Net-zero 2050 European Climate Foundation</u> => <u>Climate neutral economy by 2050</u>
 - ⇒Net Zero Emissions by 2050: <u>UN Net-zero Coalition</u>;
 - Net Zero Roadmap: A Global Pathway to Keep the 1.5 °C Goal in Reach (IEA 2023)

• CORPORATE SOCIAL RESPONSIBILITY AND CORPORATE SUSTAINABILITY

□ Corporate Social Responsibility (CSR) <u>UNIDO's Definition</u>

Corporate Social Responsibility is a management concept whereby companies integrate social and environmental concerns in their business operations and interactions with their stakeholders. => Similar concepts: corporate responsibility, corporate citizenship, corporate sustainable development, triple-bottom line, corporate ethics, corporate governance.

- □ UN Global Compact <u>https://www.unglobalcompact.org/what-is-gc/mission/principles</u> Corporate sustainability starts with a company's value system and a principles-based approach to doing business. This means operating in ways that, at a minimum, meet fundamental responsibilities in the areas of human rights, labour, environment and anti-corruption. => 10 Principles
- □ Triple Bottom Line
 - ⇒<u>Coined by John Elkington in 1994</u>: A bottom line that continues to measure profits, but also measures the organization's impact on people and on the planet. The triple bottom line is a way of expressing a company's impact and sustainability on both a local and a global scale.
 - > Quadruple Bottom Line => 5Ps: people, prosperity, planet, partnership and peace https://www.unssc.org/sites/unssc.org/files/2030_agenda_for_sustainable_development_kcsd_primer_en.pdf
- □ 上市櫃公司企業永續發展

⇒上市櫃公司永續發展行動方案 上市櫃公司永續發展路徑圖 企業永續發展簡介

- □ CSR Report and Corporate Sustainability Reporting
 - ⇒Voluntary or Compulsory Information Disclosure
 - ⇒<u>GRI Standard;</u> IFRS Sustainability Disclosure Standards => SASB Standards
 - ⇒上市/上櫃公司編製與申報永續報告書作業辦法 (2022.09.26)
 - ⇒上市上櫃公司永續報告書確信機構管理要點 (2022.12.21) =>永續指標+溫室氣體
 - ⇒Non-Financial Report > Environmental Report > Corporate Social Responsibility Report > Corporate Sustainability Reporting > ESG Reporting
- OTHER CONSIDERATIONS FOR CORPORATE GOVERNANCE
 - □ Sustainable and Responsible Investment => Divestment
 - ⇒Principle for Responsible Investment PRI | Home (unpri.org)
 - ⇒Equator Principle Equator Principles Association (equator-principles.com)
 - □ Climate-related Disclosure
 - ⇒Task Force on Climate-related Financial Disclosures (https://www.fsb-tcfd.org/)
 - ⇒CDP Carbon Disclosure Project (http://www.cdp.net)
 - ⇒The Science Based Targets initiative (SBTi) (https://sciencebasedtargets.org/) <u>The SBTi's Net-Zero Standard</u>
 - Taskforce on Nature-related Financial Disclosures
 - Sustainable Classification and Green Taxonomy
 - \Rightarrow SASB Sustainable Industry Classification System (SICS)
 - ⇒ <u>EU Taxonomy for Sustainable Activities (Green Taxonomy)</u>
- NET ZERO EMISSIONS
 - □ <u>Net Zero vs. Carbon Natural</u>
 - ⇒ Net zero refers to the amount of greenhouse gases (GHGs) such as carbon dioxide (CO₂), methane or sulphur dioxide that are removed from the atmosphere being equal to those emitted by human activity.
 - \Rightarrow Businesses often speak about becoming **carbon neutral**. This means they're taking steps to remove the equivalent amount of CO₂ to what's emitted through activities across their supply chains, by investing in 'carbon sinks' that absorb CO₂.