

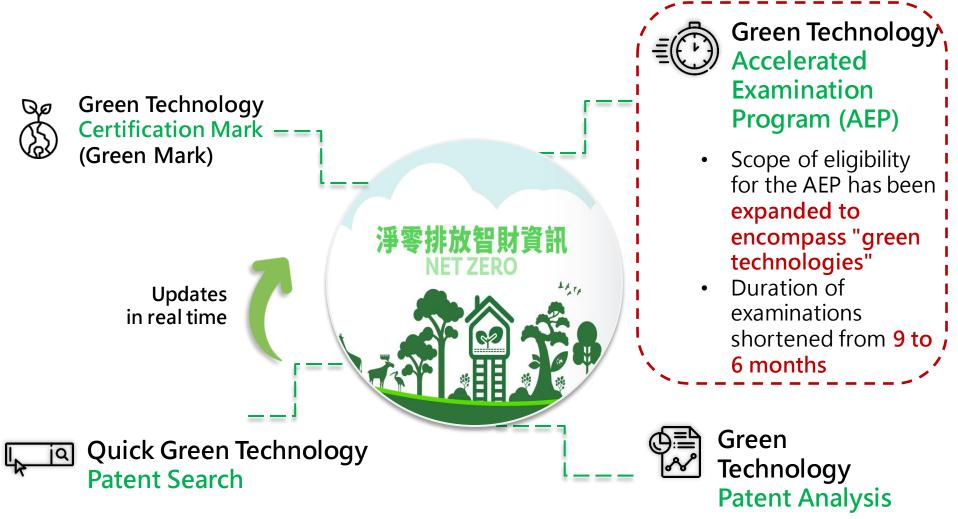
Assisting in Semiconductor Industry Transformation: Green Technology IPR Protection

Chinese Taipei 26 February 2024



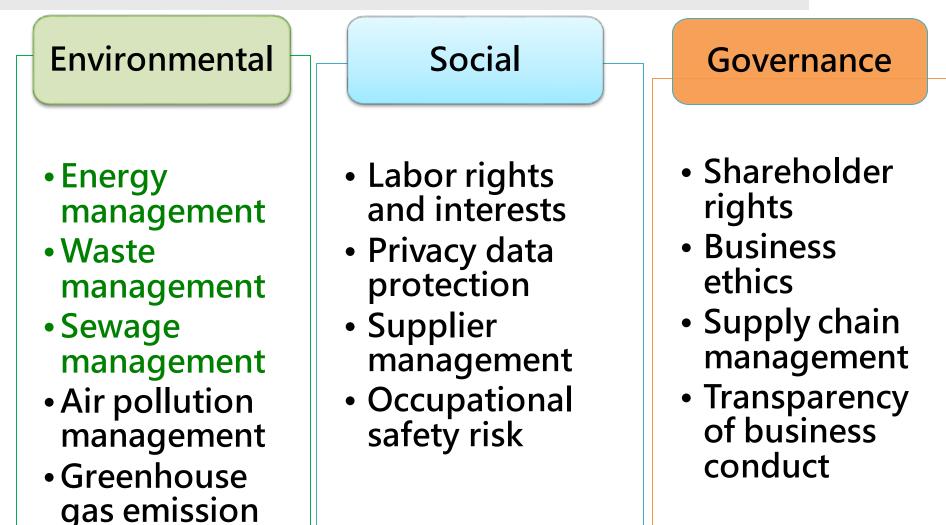


The Net Zero Emissions IP Info Section on the TIPO website

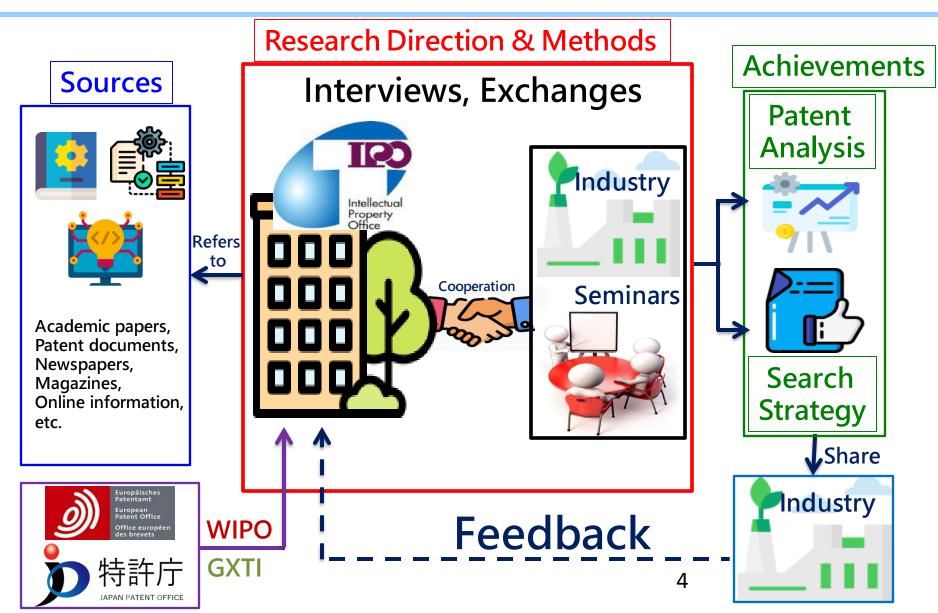




Environmental, Social, and Governance (ESG)









Recycling of Semiconductor Industry Waste (2023)

Topic	Copper Recycling	Silcon Sludge Recycling	Hydrogen Recycling
Total Patents (Global)		619(Cases)	284(Cases)
1st	CNIPA(1639 Cases ; 49.9%)	CNIPA(291 Cases ; 47%)	CNIPA(92 Cases ; 32.4%)
Rank 2nd	USPTO(220 Cases ; 6.7%)	JPO(117 Cases ; 18.9%)	JPO(63 Cases ; 22.2%)
3rd	JPO(178 Cases ; 5.4%)	KIPO(81 Cases ; 13.1%)	EPO(31 Cases ; 10.9%)
Technical Direction	Disposal of heavy metal waste liquids, slag ; Recycling of printed circuit boards and its related equipment ; Mining industry and related technology ; etc	Processing of silicon sludge, recovery of cutting oil, silicon or silicon carbide and related equipment or methods	Industrial gas treatment; Fuel cells; Semiconductor waste gas treatment and related equipment or methods
Trend Chart	x//t	R/ftBBNIPBIRED00064EUPIENDER00064EUPIEND	S/ftBBRIPHIBEBSBUILCU12-OPGETXEE: E REAREBRICUTE 2 - 002 - 021 2 r 6 SegCU12-OPGETXEE: E REAREBRICUTE 2 - 021 2 r 6 SegCU12-OPGETXEE E REAREBRICUTE

For more data, please visit: https://gpss1.tipo.gov.tw



Achievements over the past two years

Base on Corporate Interviews & ESG Reports

- Semiconductor green manufacturing/equipment (completed in 2022)
- Recycling of semiconductor industry waste (completed in 2023)
- Semiconductor industry water recycling and reuse (set in motion in 2024)



Executive Program for Corporate Leadership at Prominent Universities





Thank you!

