



Assisting in Semiconductor Industry Transformation: Green Technology IPR Protection

Chinese Taipei
26 February 2024

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Green Technology
Certification Mark
(Green Mark)

Updates
in real time

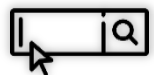


Green Technology
Accelerated
Examination
Program (AEP)

- Scope of eligibility for the AEP has been **expanded to encompass "green technologies"**
- Duration of examinations shortened from **9 to 6 months**



Green
Technology
Patent Analysis



Quick Green Technology
Patent Search



Environmental, Social, and Governance (ESG)

Environmental

- Energy management
- Waste management
- Sewage management
- Air pollution management
- Greenhouse gas emission

Social

- Labor rights and interests
- Privacy data protection
- Supplier management
- Occupational safety risk

Governance

- Shareholder rights
- Business ethics
- Supply chain management
- Transparency of business conduct

Research Direction & Methods

Achievements

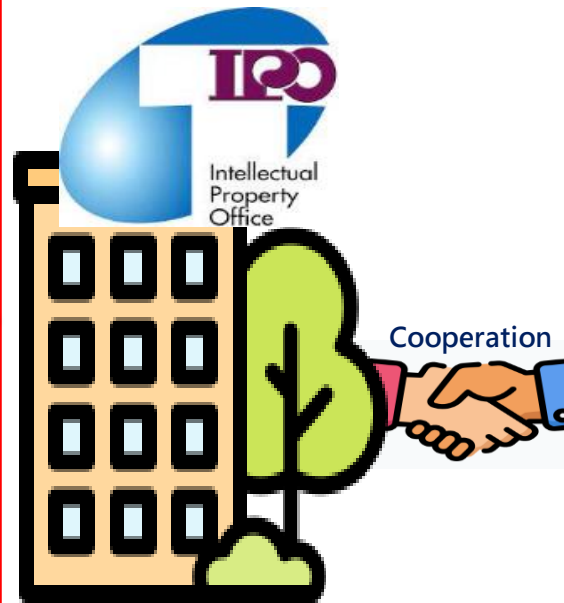
Sources



Academic papers,
Patent documents,
Newspapers,
Magazines,
Online information,
etc.

Refers
to

Interviews, Exchanges



Patent Analysis



Search Strategy

Share



Feedback

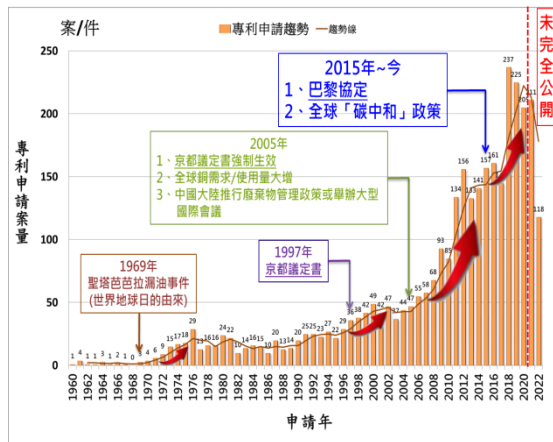
WIPO
GXTI



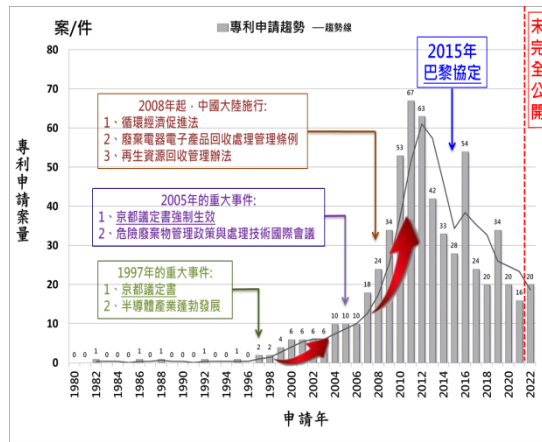
Recycling of Semiconductor Industry Waste (2023)

Topic		Copper Recycling	Silicon Sludge Recycling	Hydrogen Recycling
Total Patents (Global)		3286(Cases)	619(Cases)	284(Cases)
Rank	1st	CNIPA(1639 Cases ; 49.9%)	CNIPA(291 Cases ; 47%)	CNIPA(92 Cases ; 32.4%)
	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

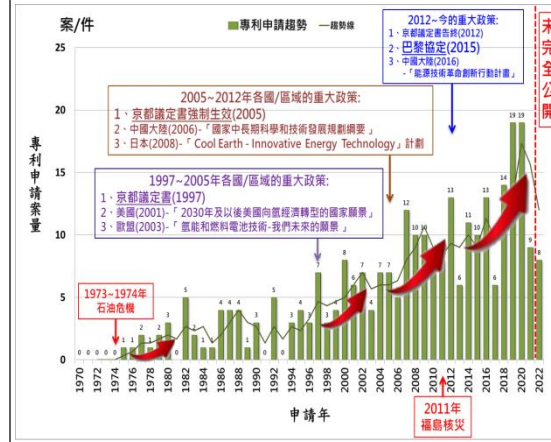
Trend Chart



Upward trend!



Market saturation



Upward trend!



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)

Intellectual Property Rights Week



Executive Program for Corporate Leadership at Prominent Universities





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