GXTI

Green Transformation Technologies Inventory

GX(Green Transformation)is a hot topic these days. So, I want to promote our company's GX achievements from an intellectual property perspective.
But, I wonder what kind of technologies can be called "GX technology"? I wish there was an easy way to check how many patents we have that can be called "GX technology" …

You are in luck.
The JPO has the solution to your wish. It's the "GXTI" that we created, which responds exactly to what you want!

GXTI
Green Transformation Technologies Inventory

4 Perspectives for Cross Tabulation

5 GX Technologies		gxY			
		gxY01 Control	**gxY02** Measuring	**gxY03** Business	**gxY04** ICT
gxA	**Energy Supply** e.g., Solar Photovoltaic Power Generation, Fuel Cells, Hydrogen Technology				
gxB	**Energy Saving, Electrification, Demand-Supply Flexibility** e.g., Energy Saving in Buildings, Electromobilities				
gxC	**Batteries, Energy Storage** e.g., Secondary Batteries, Pumped Storage Power Generation, Thermal Storage Materials				
gxD	**CO_2 Reduction in Non-Energy Sector** e.g., Hydrogen Reduction Steelmaking, Recycling				
gxE	**Capture, Storage, Utilization and Removal of Greenhouse Gas** e.g., CCS, Green Refrigerants				

The GXTI shows how to categorize GX technologies and how to search for patent documents that include the category "GX technology".

The GXTI gives a bird's-eye view of GX technology from **5 GX Technologies** (gxA~gxE) and **4 Perspectives for Cross Tabulation** (gxY). It was developed based on discussions by a panel comprised of six external experts with in-depth knowledge of GX technology, who received cooperation from members at the Ministry of Economy, Trade and Industry; and the Ministry of the Environment.

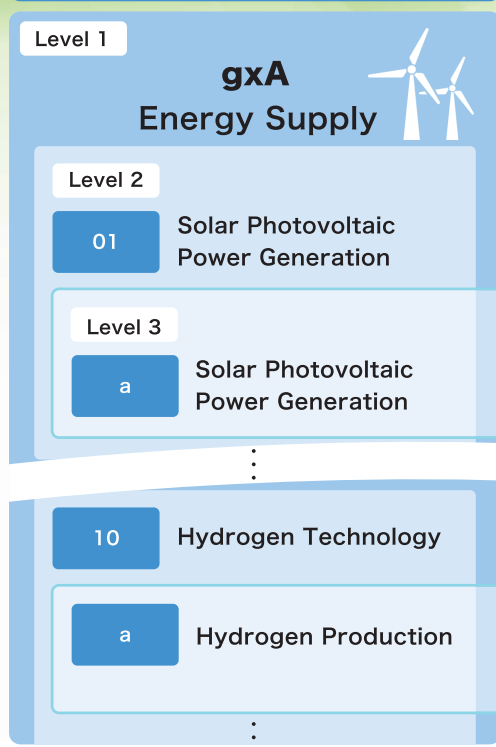Japan Patent Office GXTI 🔍 search
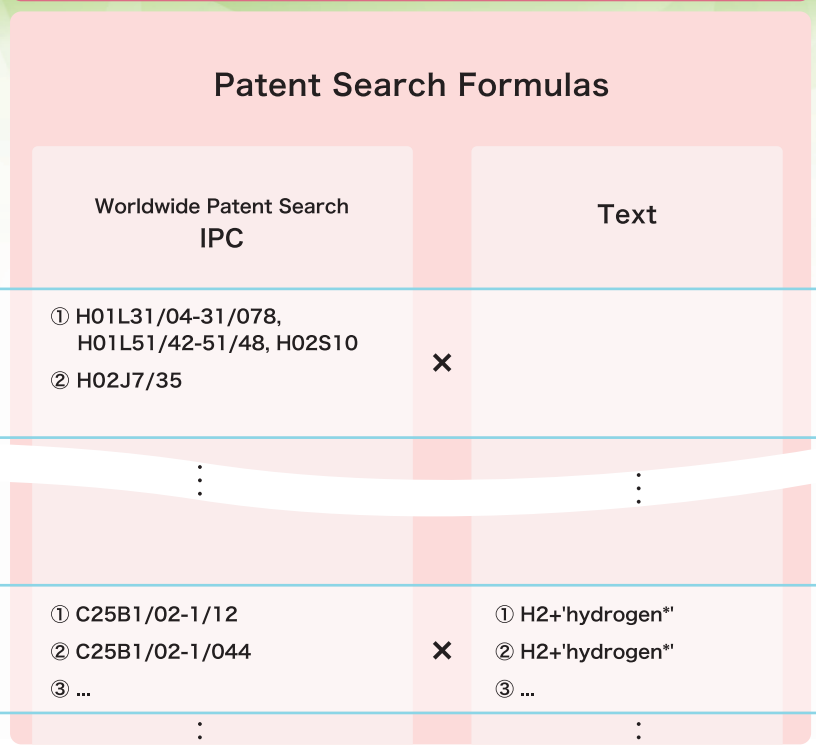
Read here to go to the GXTI page
https://www.jpo.go.jp/e/resources/statistics/gxti.html

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Hierarchical structure of GXTI and patent search formulas

Hierarchical structure of GXTI

Level 1

gxA Energy Supply

Level 2

01 Solar Photovoltaic Power Generation

Level 3

a Solar Photovoltaic Power Generation

10 Hydrogen Technology

a Hydrogen Production

IPC and text corresponding to each "Level 3" category

Patent Search Formulas

Worldwide Patent Search IPC		Text
① H01L31/04-31/078, H01L51/42-51/48, H02S10 ② H02J7/35	×	
① C25B1/02-1/12 ② C25B1/02-1/044 ③ ...	×	① H2+'hydrogen*' ② H2+'hydrogen*' ③ ...

The GXTI consists of **three levels of hierarchy**. The GXTI **contains patent search formulas that correspond to each "Level 3" category. The patent search formulas consist of International Patent Classifications (IPCs) (and texts).** Using these formulas, you can search for patent documents corresponding to each "Level 3" category and see the number of patents. The formulas were made by patent examiners in the JPO.

For example, the formula for "Solar Photovoltaic Power Generation" in the above figure is provided below.

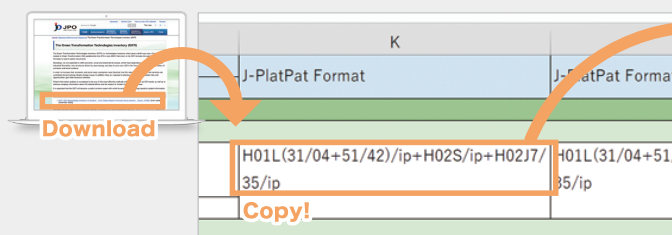## H01L(31/04+51/42)/ip+H02S/ip+H02J7/35/ip

Wait! I can't make patent search formulas because I've never searched for patents... And only professionals can use the GXTI, right?

No worry! For the convenience of those who use J-PlatPat, which is a free database containing patent information, the GXTI provides patent search formulas specific to the search by "Logical Expression Input" on J-PlatPat.
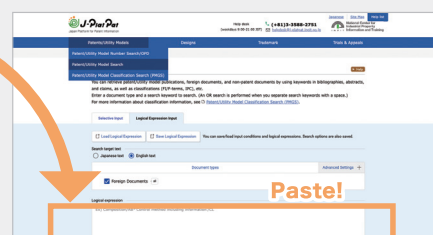
Please utilize it to analyze GX technologies!

＜GXTI Excel File＞

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