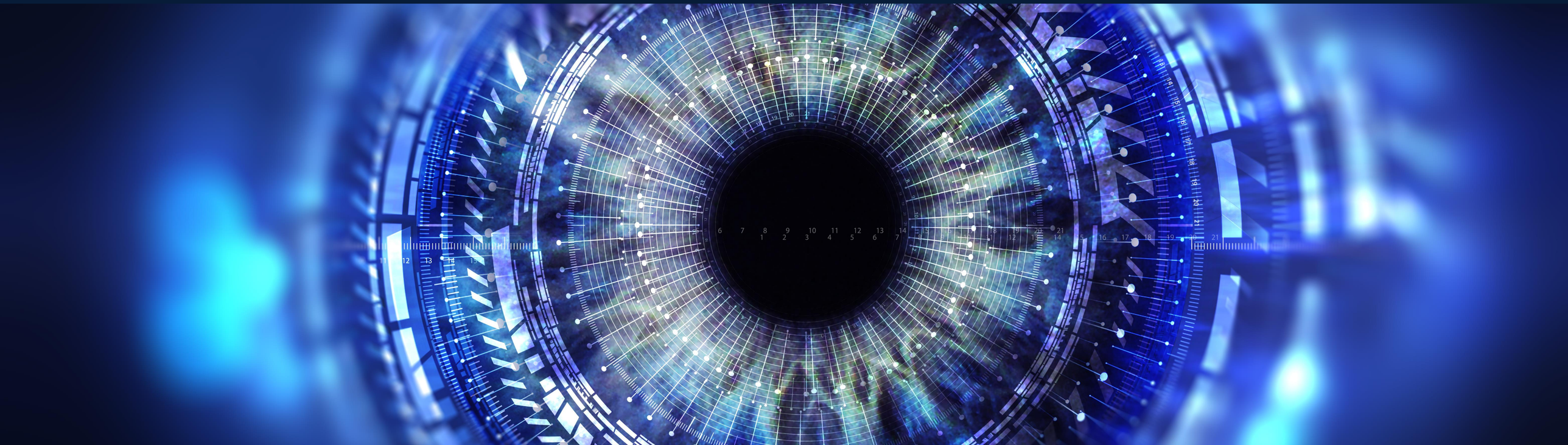
EconSight
Identifying Green Patents for Green Impact



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Why Patents?

Patents are one of the rare unvoluntary data sources available, which allow for measurement of technical progress of companies (or other entities, such as regions,..).

Why Green Patents?

Patents are one of the rare unvoluntary data sources available, which can measure the green activity and finally the green transition of a company.

Identifying Green Patents for Identifying Green Opportunities

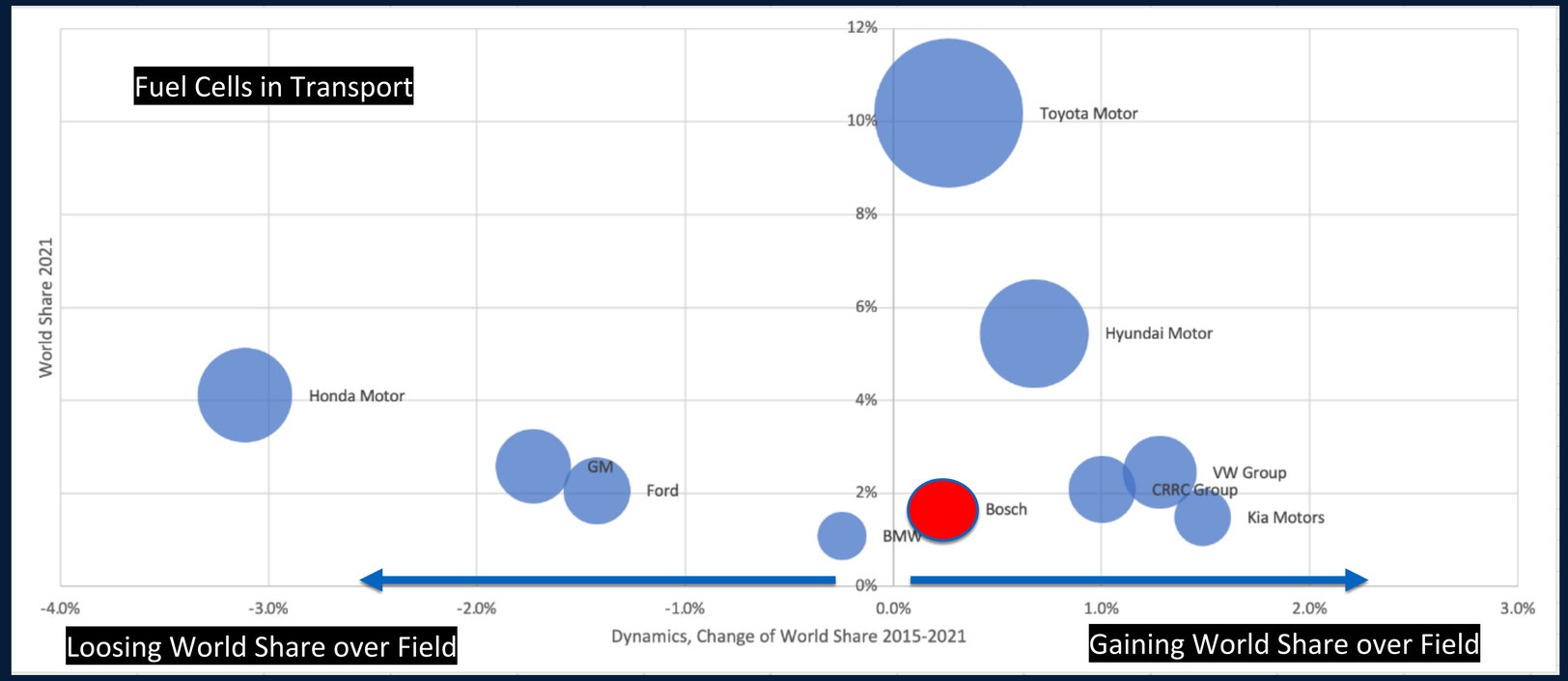
We could measure: How many Green Patents a given Company has today?

Result Bosch:
9’105/53’439 or 30.5% Patents in Y02/CPC = Green

What we measure instead: What is the impact of Investments of a given company in Green Technologies which enables the transition of that company to a successful Green Player/Leader/Disruptor in a given/changing market environment

Proclamation: „Bosch is developing both stationary and mobile fuel-cell solutions. From 2021 to 2024, Bosch plans to invest one billion euros in fuel cell technology «

Reality Check in Patents 2021:
Bosch is under the Top10 Patent Leading Companies in Fuel Cells in Transport already and has a postive change in world share of patents = Growing stronger than others in the field.



World Leader in Patents concerning Fuel Cells in Transport Applications
Patents look into the future of the next 2-5 years

EconSight

AI BASED CALCULATION

EconSight Identifying Green Patents Step1

Patents

Mapping

→

Technologies

Mapping: Multi-Label AI Mapping, trained on Expert Retrieved Data by EconSight

Recycling
Water Desalting
Electric Vehicles
Wind Energy
Biopolymers
Smart Factory,…

EconSight Green Technologies - 100 technologies in five broad categories

Renewable Energy & Storage

- Algae
- Battery Handling and Other Battery Tech
- Battery Technology
- Biomass_Biofuel_Biogas
- Double Layer Capacitor, Supercapacitor
- Energy Storage Devices
- Floating Wind Energy Systems
- Fuel Cell
- Fuel Cell Manufacturing
- Green Hydrogen Production
- Heat Pumps
- Hydrogen Generation and Storage
- Lithium Batteries
- Maritime & Hydro Power
- Nuclear Fusion Reactors
- Organic PV & Perovskit
- PEM Fuel Cell
- Photovoltaic AC/DC Conversion
- Photovoltaic Others
- Silicon Photovoltaic
- Solar Thermal Energy
- Solid State Battery
- Wind Energy

Energy & Material Efficiency

- 3D Printed & Robotic Automated Building
- Additive Manufacturing
- Chips of Reduced Power Consumption
- Digital Agriculture, Precision Farming
- Dynamic Glass
- Efficient Building
- Efficient Glas, Ceramic, Sand Production
- Efficient Metal Processing
- Efficient Production, Chemical, Petrochem, Textile
- Energy Efficient Computing
- Energy Efficient Lighting, Building, Office
- HVDC High Voltage Direct Current
- MLED, Micro-LED
- OLED
- Power & Energy Saving
- Power Saving Wireless/Connected
- Smart City
- Smart Factory
- Smart Grid & Smart Meter
- Smart Home
- Superconductor
- Urban Logistics & Automated Warehousing

Climate Change Mitigation

- Advanced Insulation Materials
- Biochar, Torrefaction, Biomass Pyrolysis
- CarbonCapture & Carbon Sequestration
- Climate Adaption Agriculture
- Climate Adaption Health
- Climate Adaption in Infrastructure_Extreme Weather
- Climate Relevant Agriculture Production/Adaption/Forrestation
- Drinking Water Purification and Biological Water Treatment
- Earthquake_Tsunami_Protection
- Forest Fire Warning
- GHG Cement Reduction
- GHG Management System
- GHG Reduced Rice Production
- GHG Reducing Animal Fodder
- Meat Analoge
- NOx Removal
- Water Desalting

Mobility

- Active Traffic Control
- Battery Charger For Vehicle
- Climate Efficient Ship Propulsion
- Connected Cars & Road Traffic Interaction
- Efficient Car Design, Weight Reduction, Aerodynamics, Tires, Rolling Resistance etc.
- Efficient Car Management
- Efficient Traffic/Car Management/Platooning
- Electric Vehicles
- Electrical, Solar, Fuel Cell Aircraft
- Exhaust Catalyst
- Hybrid Vehicles
- Low Sulfur Marine Diesel
- Maglev & Hyperloop
- Platooning
- Railroad & Tramway
- Synthetic Fuels

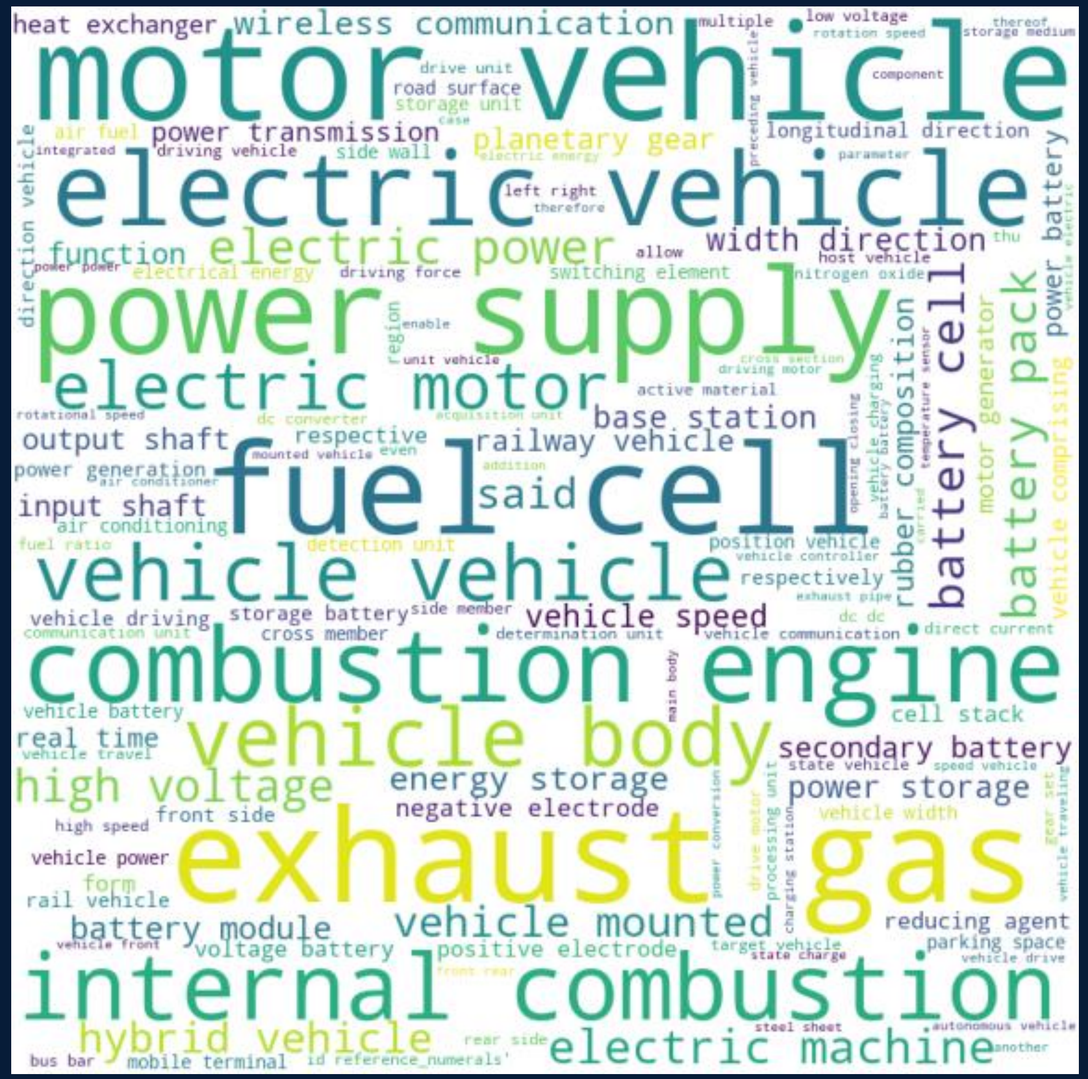
Sustainable Consumption

- Agricultural Waste Handling & Reuse
- Aquaculture
- Biopolymers
- Cement Substitution, Recycling and Waste Reuse
- Marine Recycling & Waste Management
- Plastic, Glass, Paper, Electronics & Consumer Waste Recycling
- Recycling
- Sustainable Packaging
- Waste & Refuse Management
- Waste Gas, Garbage Handling, Waste Combustion

ESG3 Green Mobility by EconSight

EconSight

AI BASED CALCULATION



Total 453.439 Active Patents in 19 Subtechnologies
Cluster View 2021 (only on the patents filed in the last 5 years)

EconSight Green Technologies - 100 technologies in five broad categories

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- Waste Gas, Garbage Handling, Waste Combustion

*Combustion Engines and a part of exhaust catalysts refer to patents about Hybrid Cars, which will be phasing out of green in few years.

ESG3 Green Mobility by EconSight

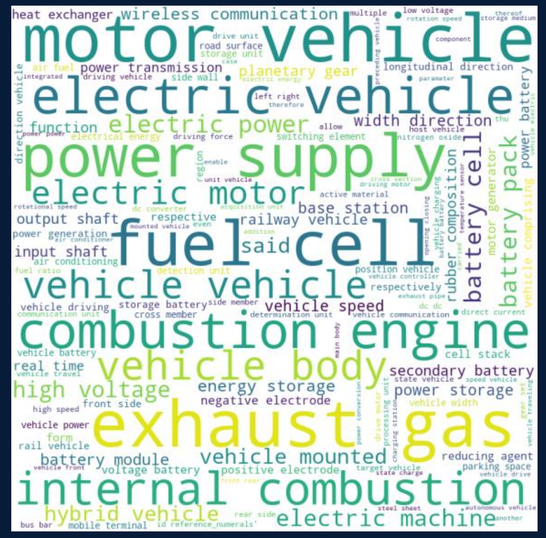
BENCHMARKING

EconSight

AI BASED CALCULATION

Automated Nearest Neighbor Analysis of more than 800 Players active in ESG in Mobility in the last 5 years, based on text analysis.

Example Bosch, BAIDU, BMW



Example BMW

Ranking	Owner
Target	BMW
1	VW Group
2	Audi (in: VW Group)
3	Volkswagen (in: VW Group)
4	Daimler
5	Bosch
6	Renault
7	Valeo
8	PSA (in: Stellantis)
9	Hyundai Wia
10	Honda Motor
11	MAN (in: VW Group)
12	Ford
13	Volvo
14	GM
15	Kia Motors
16	Hyundai Motor
17	Volvo Cars (in: Geely)
18	Porsche (in: VW Group)
19	Tata Motors
20	Nissan Motor

Example BAIDU

Ranking	Owner
Target	Baidu
1	Baidu Netcom (in: Baidu)
2	TuSimple
3	Tencent
4	Hikvision
5	Automotive Research & Testing Center
6	Neusoft
7	Alibaba Group
8	Waymo (in: Alphabet)
9	Inventec
10	Alphabet
11	Alps Alpine
12	Uber
13	Harman (in: Samsung)
14	BOE
15	DGIST Korea
16	DiDi Chuxing
17	JD.com
18	IBM
19	SHANGHAI SAIWEI INVESTMENT CENTER LIMITED PARTNERSHIP
20	Amazon

Example Bosch

Rank	Owner
0	Bosch
1	Volkswagen (in: VW Group)
2	BMW
3	VW Group
4	Audi (in: VW Group)
5	Daimler
6	GM
7	Renault
8	Volvo
9	Valeo
10	Kia Motors
11	Hyundai Motor
12	Ford
13	Hyundai Wia
14	Denso
15	Honda Motor
16	PSA (in: Stellantis)
17	Toyota Motor
18	Hella
19	Hitachi
21	KKR
23	MAN (in: VW Group)

Climate Relevant Technology Players

Green Players Rating & Automated Nearest Neighbor Measuring

Example: Green Mobility

Who is the closest follower of a target company?

Which company shall I compare with, when GICS does not work anymore?

Bosch Green Profile

PROFILE ANALYSIS

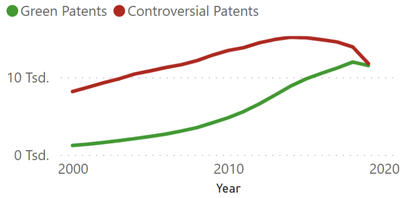
EconSight

EconSight TechBI
Company Focus: Bosch
Green Potential Analysis

Total Company Patents	Company Green Patents	Company Green Share	Company Controv. Patents
51'765	12'626	24.4%	11'959

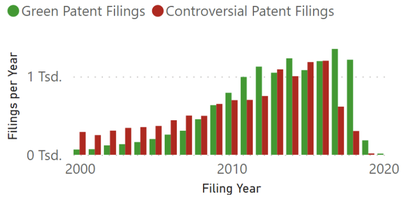
Bosch Development in Green Technologies

Company Green and Controversial Trend



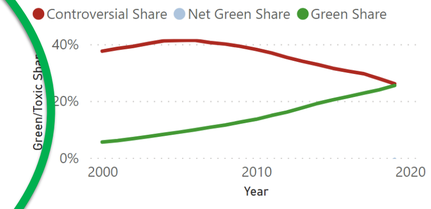
Company development of green and controversial patents. Controversial = Oil, Fracking, Gambling, Tobacco, Weapons, Nuclear Power, Diesel, Combustion Engines. Green = sum of 200 individual green techs

Company Patent Portfolio by Filing Year



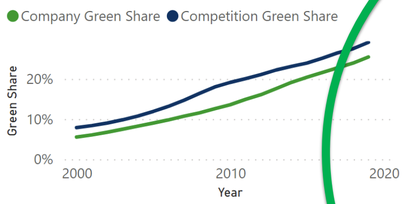
The filing year of the current active patent portfolio of the company. This shows the dynamics of the company's green and controversial activities.

Company Green Share



The development of the overall green share of the company. net green share = green share - controversial share

Company/Competition Development



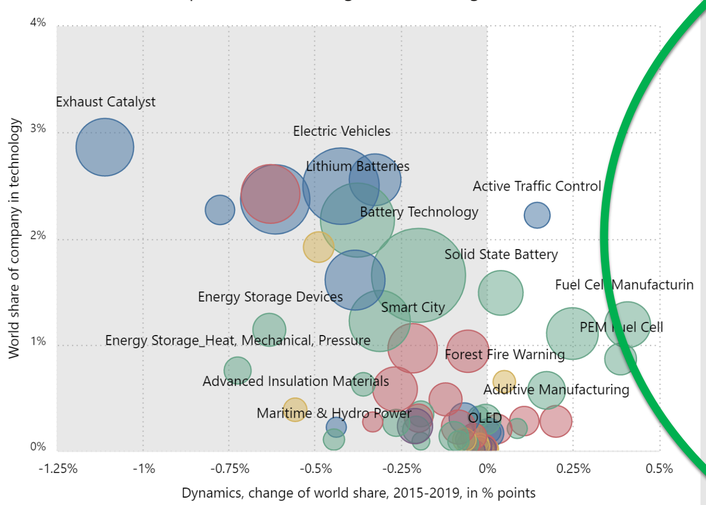
The development of the green share of the company compared to the average green share of the competition

Bosch Top Green Techs

TECHNOLOGY_NAME	Patents	Share
Battery Technology	4581	1.65 %
Electric Vehicles	2688	2.49 %
Lithium Batteries	2398	2.17 %
Connected Cars & Road Traffic I...	2014	2.37 %
Battery Handling and Other Bat...	1406	1.22 %
Battery Charger For Vehicle	1337	1.61 %
Smart Home	1315	2.42 %
Exhaust Catalyst	1195	2.86 %
Hybrid Vehicles	902	2.55 %
Fuel Cell	896	1.10 %
Smart City	771	0.97 %
Fuel Cell Manufacturing	621	1.19 %

Bosch Green Technology profile

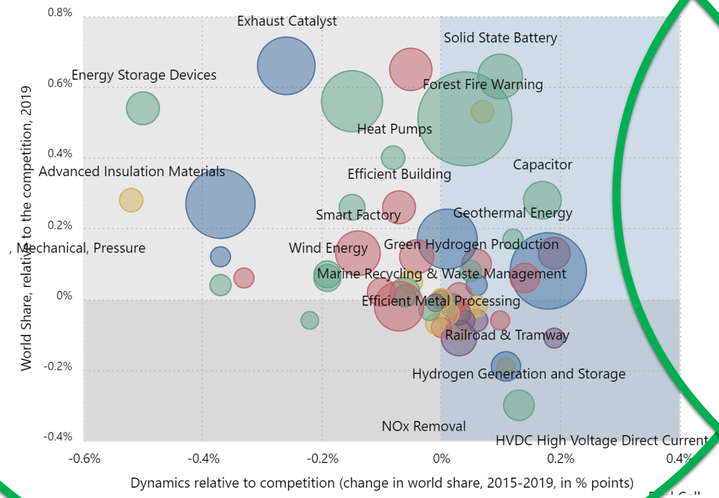
World share and development of selected green technologies



Company world shares for selected green technologies. World share = share of company patents in a technology in relation to total worldwide patents in this technology. This allows for a comparison of the activities of the company in different technologies. Bubble position at top = world share of the respective technology is high (vertical axis). The horizontal axis shows the dynamics of the technology as the change of the world share in recent years. Bubble size = number of green patents in the technology.

Bosch Profile relative to the Competition

Company green performance relative to green performance of the competition



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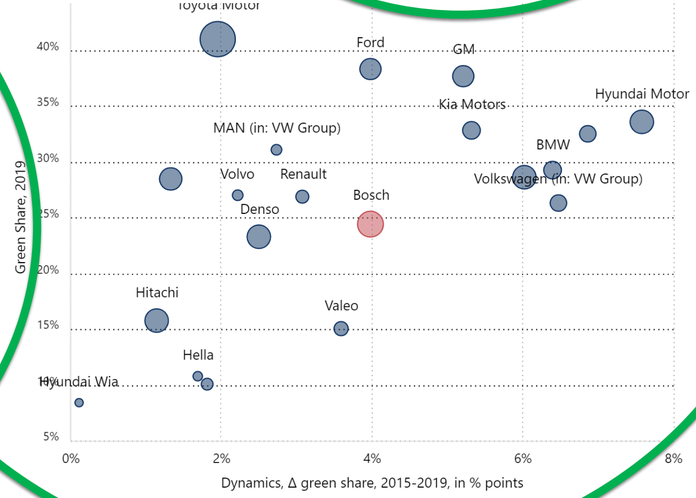
Competitive Environment Green Shares

Share of green technologies in total company patents and recent dynamics



The vertical axis = overall green share of the company ; horizontal axis = change of green share in recent years in %-points. Bubble size = total number of green patents of the company.

Renewable Energy & Storage · Energy & Material Efficiency · Mobility
Climate ChangeMitigation · Sustainable Consumption

Alphabet Green Profile

PROFILE ANALYSIS

EconSight

EconSight TechBI

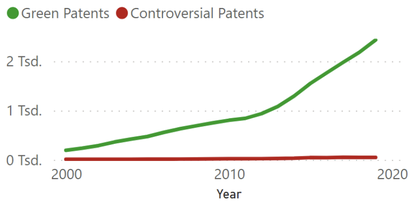
Company Focus: Alphabet

Green Potential Analysis

Total Company Patents	Company Green Patents	Company Green Share	Company Controv. Patents
22'771	2'432	10.7%	48

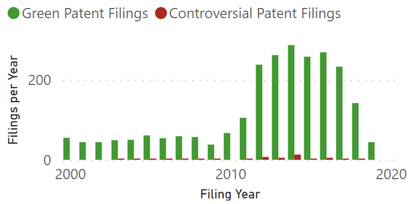
Alphabet Development in Green Technologies

Company Green and Controversial Trend



Company development of green and controversial patents. Controversial = Oil, Fracking, Gambling, Tobacco, Weapons, Nuclear Power, Diesel, Combustion Engines. Green = sum of 100 individual green techs

Company Patent Portfolio by Filing Year



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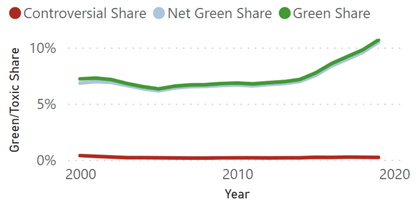
Company Green Share



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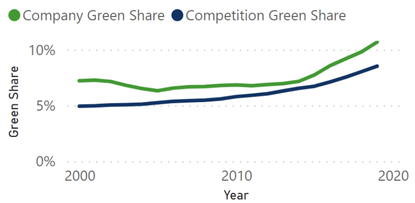


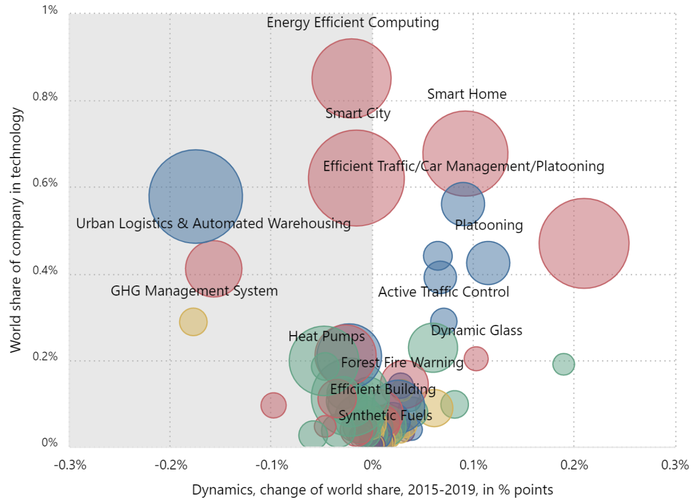
The development of the green share of the company compared to the average green share of the competition.

Alphabet Top Green Techs

TECHNOLOGY_NAME	Patents	Share
Smart City	486	0.62 %
Connected Cars & Road Traffic I...	455	0.58 %
Smart Factory	404	0.47 %
Smart Home	349	0.68 %
Energy Efficient Computing	288	0.85 %
Battery Technology	284	0.11 %
Battery Handling and Other Bat...	209	0.20 %
Battery Charger For Vehicle	173	0.21 %
Digital Agriculture, Precision Far...	145	0.21 %
Urban Logistics & Automated ...	112	0.41 %
Electric Vehicles	95	0.09 %
Wind Energy	74	0.23 %

Alphabet Green Technology profile

World share and development of selected green technologies



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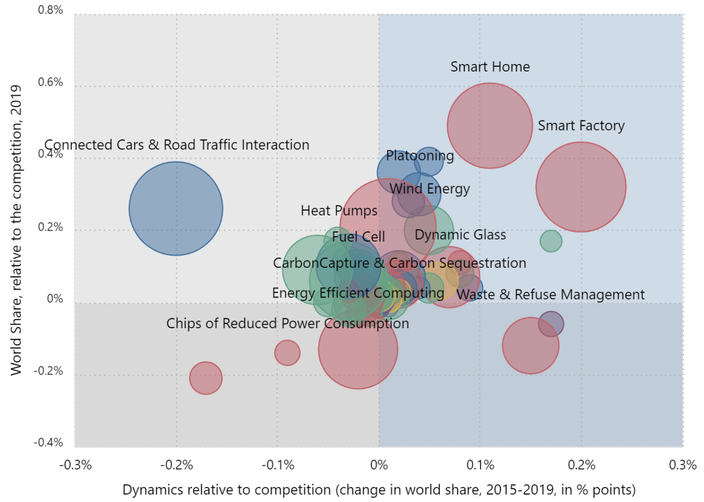

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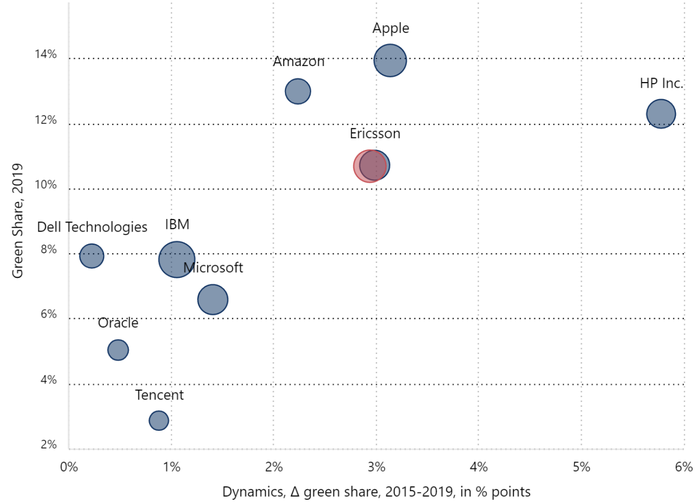

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Renewable Energy & Storage · Energy & Material Efficiency · Mobility · Climate ChangeMitigation · Sustainable Consumption

Microsoft Green Profile

PROFILE ANALYSIS

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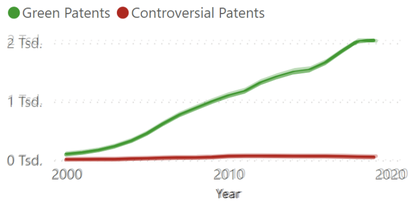
Green Potential Analysis

Company Focus: Microsoft

Total Company Patents	Company Green Patents	Company Green Share	Company Controv. Patents
30'106	1'982	6.6%	52

Microsoft Development in Green Technologies

Company Green and Controversial Trend



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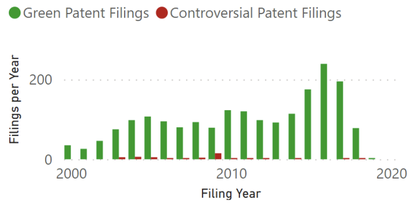
Company Patent Portfolio by Filing Year



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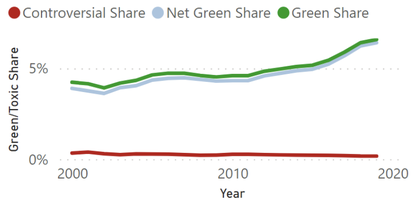

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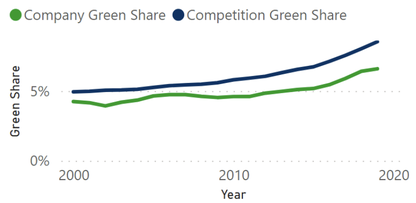

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Battery Handling and Other Bat...	125	0.12 %
OLED	102	0.11 %
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Battery Charger For Vehicle	90	0.11 %
Urban Logistics & Automated ...	63	0.23 %
Additive Manufacturing	32	0.08 %

Microsoft Green Technology profile

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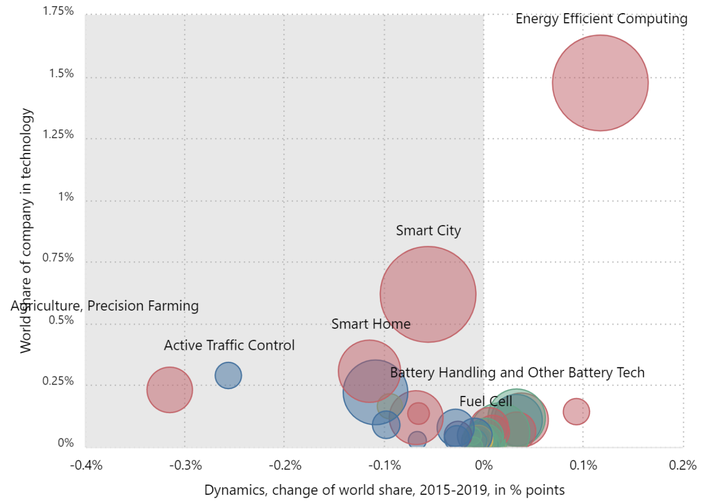

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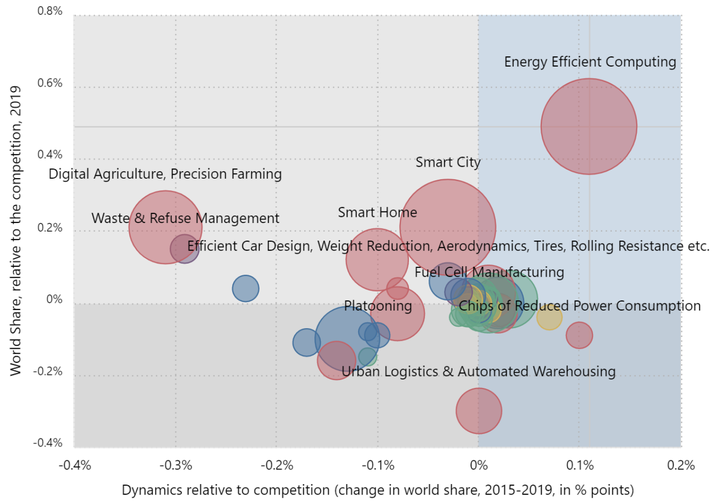

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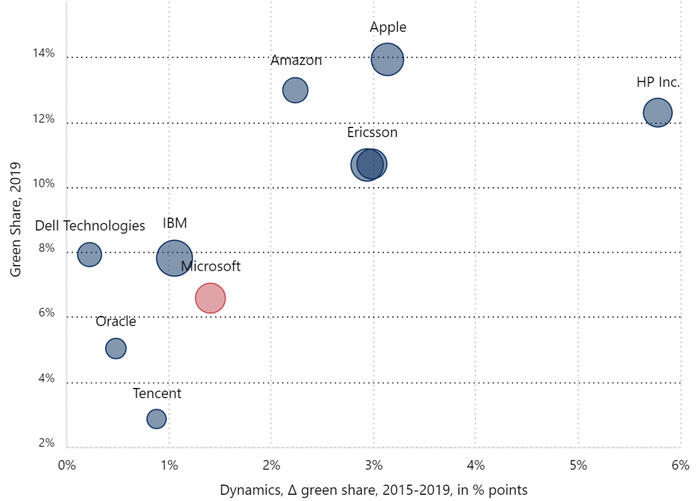
Competitive Environment Green Shares

Share of green technologies in total company patents and recent dynamics



The vertical axis = overall green share of the company ; horizontal axis = change of green share in recent years in %-points. Bubble size = total number of green patents of the company.

Renewable Energy & Storage · Energy & Material Efficiency · Mobility
Climate ChangeMitigation · Sustainable Consumption

EconSight

EconSight Identifying Green Patents Standard Approach

Patents

Mapping

Technologies

- Recycling
- Water Desalting
- Electric Vehicles
- Wind Energy
- Biopolymers
- Smart Factory,…

Classcial Way: Using Patent Classes

IPC Green by WIPO

- ADMINISTRATIVE, REGULATORY OR DESIGN ASPECTS
  - COMMUTING, E.G., HOV, TELEWORKING, ETC. — G06Q
  - CARBON/EMISSIONS CREDITS

TOPIC	IPC	PATENTSCOPE
ALTERNATIVE ENERGY PRODUCTION		
BIO-FUELS		
SOLID FUELS	C10L 5/00, 5/40-5/48	C10L 5/00, 5/40-5/48
TORREFACTION OF BIOMASS	C10B 53/02 C10L 5/40, 9/00	C10B 53/02 C10L 5/40, 9/00
LIQUID FUELS	C10L 1/00, 1/02, 1/14	C10L 1/00, 1/02, 1/14
BIOGAS	C02F 3/28, 11/04 C10L 3/00 C12M 1/107	C02F 3/28, 11/04 C10L 3/00 C12M 1/107

CPC Y02 by EPO

Sub-group	Description	Comment
Y02B	Climate change mitigation technologies related to buildings, including housing and appliances or related end-user applications	Integration of renewables in buildings, lighting, HVAC (heating, ventilation and air conditioning), home appliances, elevators and scalators, constructional or architectural elements, ICT, power management
Y02C	Capture, storage, sequestration or disposal of greenhouse gases (GHG).	CO_2 capture and storage, also of other relevant GHG
Y02E	Climate change mitigation technologies in energy generation, transmission and distribution	Renewable energy, efficient combustion, nuclear energy, biofuels, efficient transmission anddistribution, energy storage, hydrogentechnology
Y02P	Climate change mitigation technologies in the production or processing of goods	Metal processing, chemical/petrochemical industry, minerals processing (e.g. cement, lime, glass), agroalimentary industries,
Y02T	Climate change mitigation technologies related to transportation	e-mobility, hybrid cars, efficient internal combustion engines, efficient technologies in railways and air/waterways transport
Y02W	Climate change mitigation technologies related to wastewater treatment or waste management	Wastewater treatment, solid waste mangament, bio packaging
Y04S	Smart grid technologies	Power networks operation, end-user applications management, smart meter ing, electric and hybrid vehicles interoperability, trading and marketing aspects

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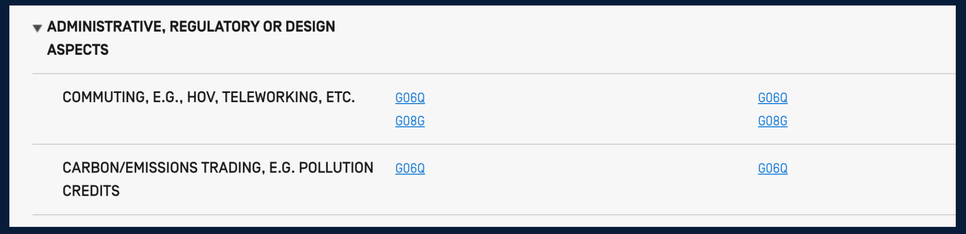
Patent Classification Problems

IPC Green by WIPO

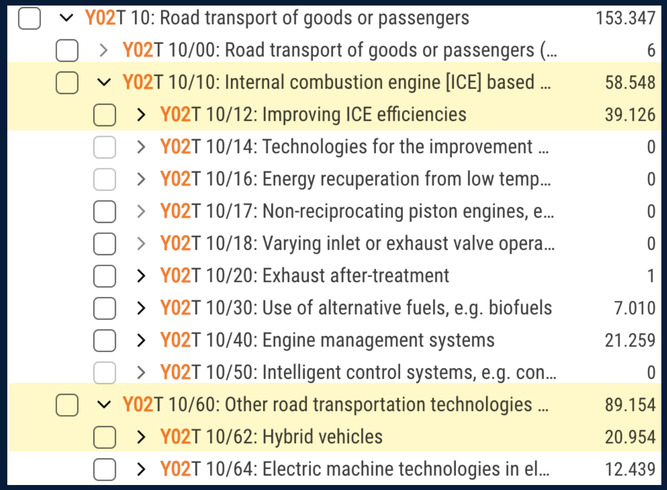
Problem:
Large classes must be combined with keywords, intensive searches must be conducted, selective areas only, broad coverage not adressed



ADMINISTRATIVE, REGULATORY OR DESIGN ASPECTS		
COMMUTING, E.G., HOV, TELEWORKING, ETC.	G06Q G08G	G06Q G08G
CARBON/EMISSIONS TRADING, E.G. POLLUTION CREDITS	G06Q	G06Q

CPC Y02 by EPO

Problem:
CPC covers only 55% of all patents, some areas (f.ex. Railroad) are missed out, other areas are incomplete (Batteries,..) and some segments are questionable or slowly adapting.



Y02T 10: Road transport of goods or passengers	153.347
Y02T 10/00: Road transport of goods or passengers (…	6
Y02T 10/10: Internal combustion engine [ICE] based …	58.548
Y02T 10/12: Improving ICE efficiencies	39.126
Y02T 10/14: Technologies for the improvement …	0
Y02T 10/16: Energy recuperation from low temp…	0
Y02T 10/17: Non-reciprocating piston engines, e…	0
Y02T 10/18: Varying inlet or exhaust valve opera…	0
Y02T 10/20: Exhaust after-treatment	1
Y02T 10/30: Use of alternative fuels, e.g. biofuels	7.010
Y02T 10/40: Engine management systems	21.259
Y02T 10/50: Intelligent control systems, e.g. con…	0
Y02T 10/60: Other road transportation technologies …	89.154
Y02T 10/62: Hybrid vehicles	20.954
Y02T 10/64: Electric machine technologies in el…	12.439

EconSight Identifying Green Patents

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Technologies

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Patent Classification Problems

In Short:

Access and usability for Non-Experts
Availability for Finance
Incomplete or questionable coverage
No alignment with EU taxonomy,
Slow adaption to changes,
Many wrong classified patents
…

Solution:

Explainable AI trained on Expert sets
Clear and understandable topics
Alignment with EU Taxonomy
Proper aggregation on company level

EconSight Approach:

Patent Example

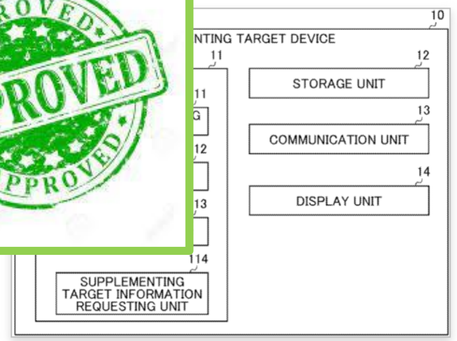
Family of US2021268934.A1 et al. Pending

Information providing system

Honda Motor

First filing in family 28.2.2020
First publication in family 31.8.2021

Provided is an information providing system capable of promoting reuse of secondary batteries. An information providing system includes a supplementing target device and a server. The supplementing target device includes: a power calculating unit configured to calculate maximum required power; an air temperature acquiring unit configured to acquire past air temperature data; and a supplementing target information requesting unit configured to transmit, to the server, supplementing target information. The server includes: a secondary batt for a secondary battery that satisfie tem ary power included in the supplemer



Inventors Kazuno Shuichi, Onoue Yukiko, Uchida Tsubasa

Applicant Honda Motor Co Ltd

Classical:
No Y02 = Not Green

EconSight Expert Search Approach
Green: EV, Fuel Cells, Batteries
(but also Reuse/Recycling Keywords)

EconSight Multi-Label AI Approach
Green: **Recycling** (not EV, Batterytech)
+ Green Digital

Technologies

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SUMMARY OF THE INVENTION

In recent years, it has been proposed to introduce a secondary battery such as the battery mentioned above, stationary fuel cells, and the like into urban areas, and effectively use such secondary batteries by reusing secondary batteries capable of supplying power. However, it has been difficult to effectively perform the reuse of secondary batteries by matching a vehicle or the like desired to receive the supply of power from the secondary battery, and a secondary battery capable of supplying power.

It is, therefore, an object of the present invention to provide an information providing system capable of promoting reuse of secondary batteries.

EconSight Approach

- We identify Green/Climate relevant Patents
- We categorize them into understandable concepts
- We measure the companies activity in green patents
- We compare them to a conceptual neighborhood

- And we finally find out if and what a company might able to, in green technology,
  in the years to come…

EconSight – Measuring Technological Progress

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