

Harvest unused energy and convert into electrical energy



64 84% of the World's Energy is dependent on fossil fuels 79 Fluctuations in oil prices are a massive global energy issue

High dependence on fossil fuels in the global

	Forbes			
Fossil Fuels Still Supply 84 Percent Of World Energy — And Other Eye Openers From BP's Annual Review				
Robert Rapier Senior Contributor @	Follow			
	Jun 20, 2020, 08:35pm EDT			
Listen to article 4 minutes	41 1 1			
	bp			

*Forbes

Growing trend in oil prices fluctuation



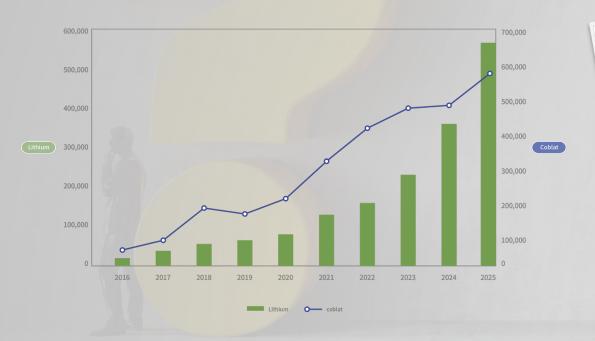
Environmental Pollution Due To Increased Battery Usage

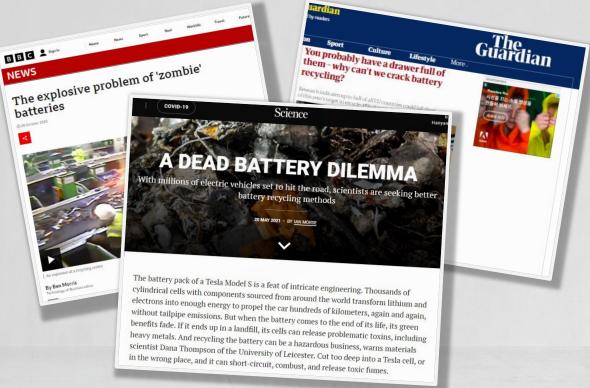


Waste battery emissions are expected to increase dramatically 'Hazardous/toxic substances' in battery production and disposal

Global Used Batteries Forecast

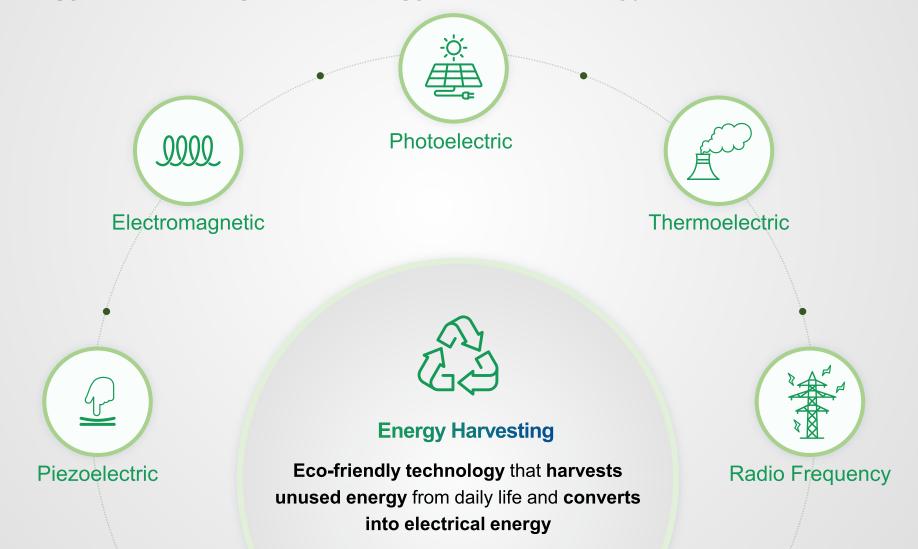
Battery Environmental Pollution Problem







"Utilize Energy Harvesting Technology to solve energy and environmental issues"

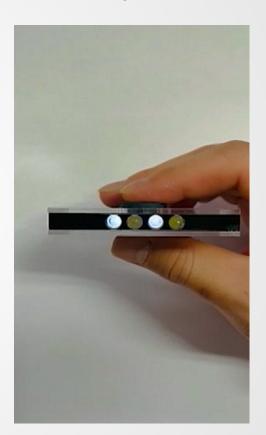




"Energy Harvesting Technology allows to generate electricity with a small force"



Power can be generated by bending the piezoelectric by 1 mm



Able to generate power with 1mm movement onto the piezoelectric



"Energy Harvesting Technology allows to generate electricity with a small movement



Power can be generated with small movement



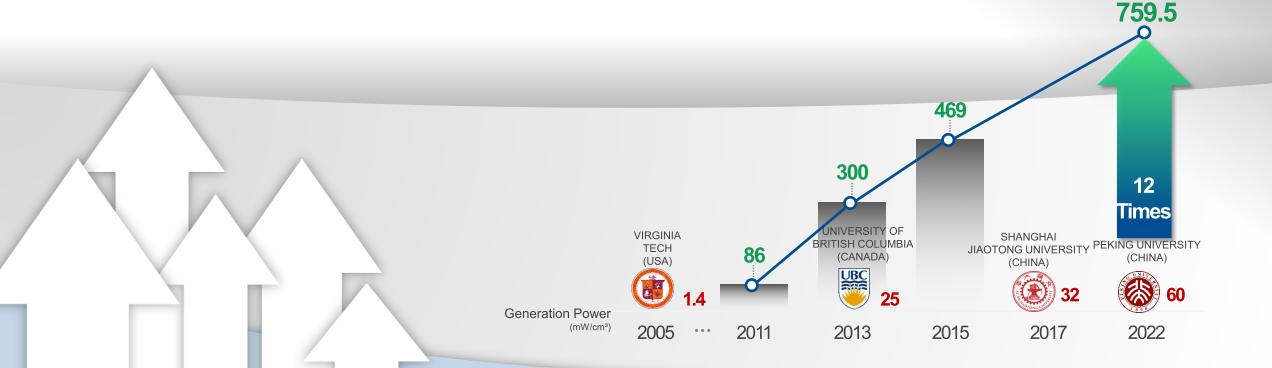
Power can be stored with small movement



World's Highest Power Generation Record since 2011

12 times more power than the world's second-largest power generation record

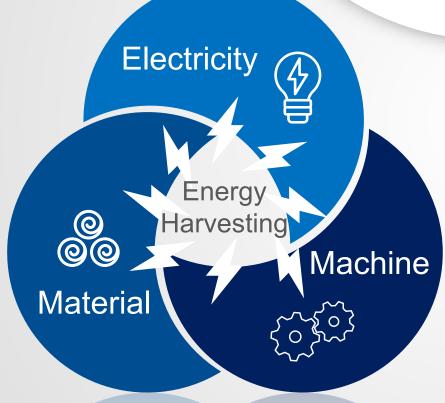
Total accumulated research budget 31 million dollars





The Superiority

of the Original Technology



- Energy harvesting technology requires
 optimized technologies in the fields of electrical, material and machinery
- Taehyun Sung CTO has more than 10 years of experience in each field of electricity, material, and machinery







3D Image



No Power Supply Required



No Battery Required



Perfect Sealing Water Proof



Light up LED with Human Step



Simple Installation







3D Image



No Power Supply Required



No Battery Required



Perfect Sealing Water Proof



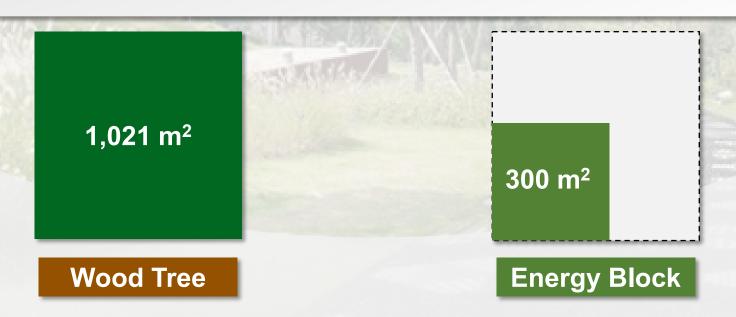
Light up LED with Human Step



Simple Installation



- Contributing to Carbon Neutrality through Forests
 - → In the case of forests, they contribute carbon neutrality through carbon absorption
 - → Creating forests is challenging where populations are concentrated and desert area
- Energy Blocks are suitable for urban areas to contribute to Carbon Neutrality
 - → Wood Tree needs 1,021 m² of area to absorb 1 ton of CO₂ in a year
 - → Energy block requires an area of 300 m² efficiently



< Comparison of the area required to absorb/reduce1 ton of CO2 per year >





Installing an Energy Block is planting a tree

Create a forest by installing Energy Block territory



Energy Block

TAM

\$50.45 billion

- 694,021,855 m × 10% × \$700
- 10% of pedestrian roads in Korea × supply price
- Assuming 1 unit is installed per square meter (m²)

\$8.75 billion

- 120,482,671 m² × 10% × \$700
- 10% of pedestrian roads in 6 metropolitan cities in Korea × supply price
- Assuming 1 unit is installed per square meter (m²)

SOM

\$479.79 million

- 6,668,450 m² × 10% × \$700
- 10% of pedestrian roads in Seoul × supply price
- Assuming 1 unit is installed per square meter (m²)

The trend of the pedestrian road extension



*Excluding roadside sidewalks and shared bicycle-pedestrian paths

 Installation of pedestrian roads increases every year in Korea



"Technological advantage over our competitors, based on R&D

- Compared to competitors, our product are safer,
- higher power generation,
- more scalable energy block

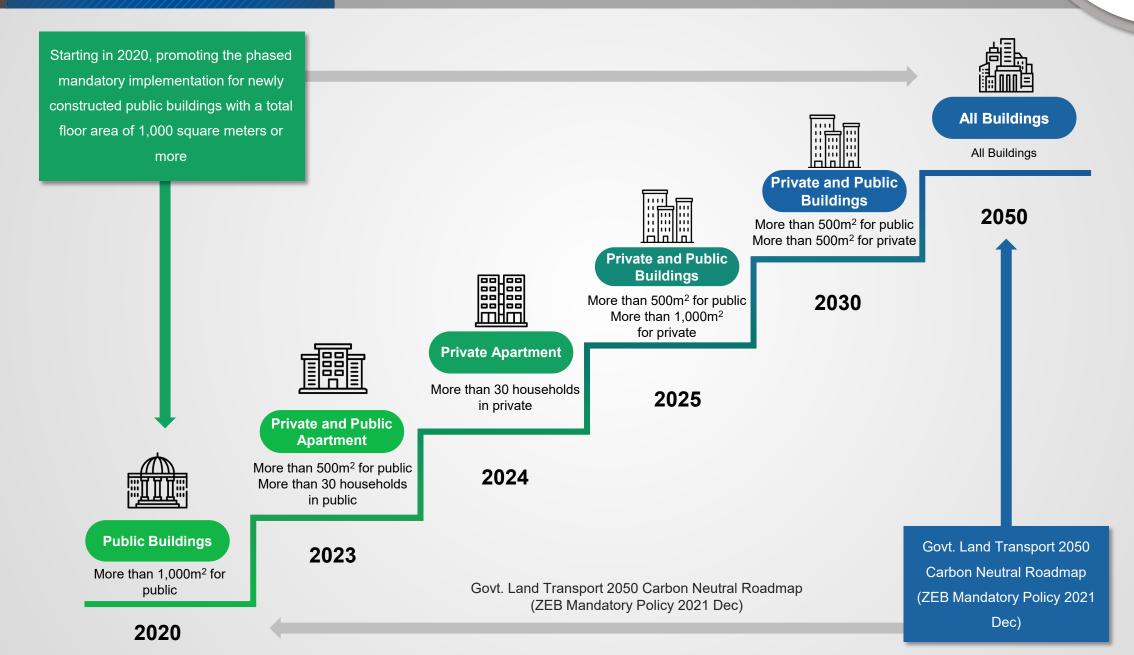


	Huject Current Status	Pavegen(Competitor)	
Top Plate Fluctuation (Prevent Accident)	3 mm Top Plate Fluctuation	10 mm Top Plate Fluctuation	
Power Generation	3.6 W/harvester(peak value)	1.7 W/harvester(peak value)	
Installation	No Expert Required	Need Expert	

GOVERNMENT POLICY

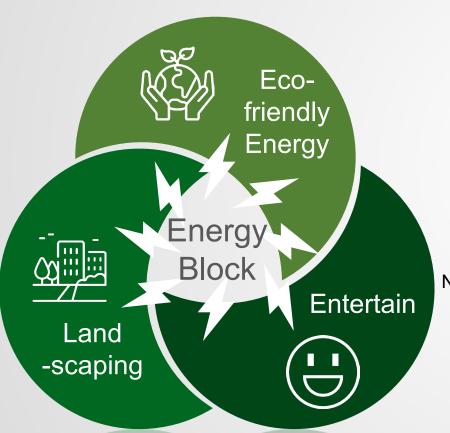
Zero Energy Building Policy







Customer Needs-Based Sales





\$2.18 million
Supply Contract
Needs: Vertical Garden
Landscaping



Discussion with Hoban Construction for Headquarters Installation

Needs: Zero Energy Building Policy



OTHER PRODUCTS

Product Diversification





Bumper that activates the floor traffic light by converting the vehicle's movement and sunlight into electrical energy



Converts movement to electrical energy to provide power to LED lights on clothing/shoes



Wireless switch that converts button pressure into electrical energy and operates without a battery



Cane for the visually impaired to help detect obstacles in advance



Road that converts the car movement into electricity and operates devices installed on the road



1. Energy Bumper

Energy Bump

Bumper that activates the floor traffic light by converting the vehicle's movement and sunlight into electrical energy





2. EH Safety Clothes

Converts movement to electrical energy to provide power to LED lights on clothing/shoes







Product Photo

Minister of Science and ICT Award

Intention to Purchase from Gangdong District Office

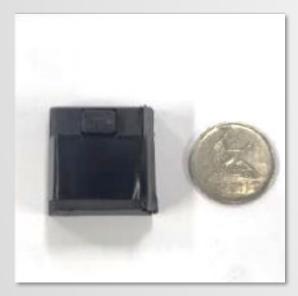


Product Image



3. Batteryless Switch

Wireless switch that converts button pressure into electrical energy and operates without a battery



Small Size Product



Batteryless Switch demonstrating 100m distance operation



Product Image



4. Smart Cane

Cane for the visually impaired to help detect obstacles in advance









Smart Cane Design Description

Lee Jung-min and Choi Kwang-geun won the bronze medal in the Tokyo Paralympics



5. Piezoelectric Road

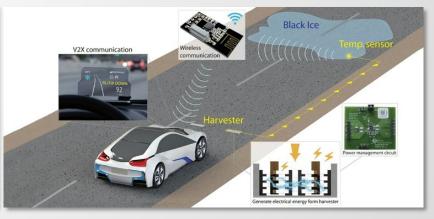
Road that converts the car movement into electricity and operates devices installed on the road



Piezoelectric power generation road



Energy Harvesting Road Installation at Manghyang Rest Area on Gyeongbu Main Highway



Vehicle Accident Prevention System Construction Diagram

HUJECT CORP. HUJECT Team and CEO



CEO

Moses Sung

KAIST Techno MBA (President of the Student Council) PlavD KT Group Mobile Platform Team

Technology Business Headquarters

CTO Taehyun Sung

Doctor of Engineering, Tokyo Institute of Technology Professor at Hanyang University)

Production Management

Institute Chief Director Sebin Kim

Corporate Research

Doctor of Electrical Engineering at Hanvang University Manager at Daesung Electric

Director Beomsoo Jeona

Bachelor of Electrical Control at Hanyang University Director at SaGolink Co., Ltd

Senior Youngiun Park

Bachelor of Electrical Engineering at Hanyang University Employee at Rodtec PMS

CPO Sevun Lee

Senior Designer of Paper Innovation in Hong Kong Director of N15 Manufacturing Division

VP Wonkeun Yoo

Doctor of Engineering, Yokohama National University

Director of Convergence Industry-Academic Application Technology Forum

Director Yongsik Kim

Bachelor of Science in Biochemistry at Yonsei University GS Caltex Technical Director

Business Strategy Headquarters

CSO Geunbae Jun

KAIST Techno MBA (Major Representative) Hyundai Steel Key Account Manager

Strategic Planning

Senior Semin Yim

Master of Education Technology at Hanyang University Marketer at Wadiz

Business Management

Director Aesoon Kim

Graduate School, Chungnam National University President of Phoenix Leadership Daejeon Branch

Manager Eunchae Im

Bachelor of social welfare/ Chinese & Chinese literature at Kyunggi University Staff at Hanyang University College of Medicine

HUJECT CEO

Education

- Graduated from the University of Illinois at Urbana-Champaign (Graduated with Honors)
- Graduated from KAIST MBA program (President of Student Council)

Career

- · Wohrk Reco Starts Up in the U.S
- TYKL Partners, United States (AUSTIN, TEXAS)
 - Marketing Team
- KT Group Company PlayD Mobile Platform Team
- Chinese conglomerate Focus Media Korea
 - New Business Department
- Eco-friendly Mongolian Housing Project
 - Representative
- Huject Co., Ltd. Representative Director

Domestic and International Awards



Domestic and International Awards History

Korean Awards



Hoban Innovation Technology Contest



Daegu Center for Creative Economy & Innovation Minister's Award from the Ministry of SMEs and Startups



Presidential Council on Intellectual Property Minister's Award from the Ministry of SMEs and Startups

Global Awards



CES 2020 / Red dot 2020, 2024 / IDEA 2020, 2024 / IF 2020, 2023

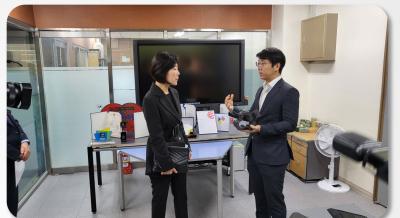
Category	Date	Award Name	Award Level	Awarding Institution / Remarks	
Technology	'20.01	CES	Innovation Award	Consumer Technology Association	
	'23.09	6 th Intellectual Property Day	Minister Award from the Ministry of SMEs and Startups	Presidential Council on Intellectual Property	
Design	'20.06	Red Dot Design Award	Main Award Red Dot Award	Design Zentrum Nordrhein Westfalen	
	'20.09	IDEA	Main Award	IDSA	
	'23.04	iF Design Award	Main Award iF Design Award	iF International Forum Design GmbH	
	'22.11	Pinup Design Award	Main Award	Korea Association of Industrial Designers	
	'24.04	iF Design Award	Main Award iF Design Award	iF International Forum Design GmbH	
	'24.06	Red Dot Design Award	Main Award Red Dot Award	Design Zentrum Nordrhein Westfalen	
	'24.09	IDEA	Main Award	IDSA	
Business	'22.11	Hoban Innovation Tech Challenge	Grand Prize	Hoban Group	
	'23.08	Global Innovator Festa	Grand Prize Minister Award from the Ministry of SMEs and Startups	Daegu Metropolitan City	
	'23.12	Public-Private Partnership Open Innovation Support Program	Director of Entrepreneurship Promotion Agency Award	Korea Institute of Startup and Entrepreneurship Development	
	'24.01	Startup University Support Program	Excellence Award Director of Entrepreneurship Promotion Agency Award	Korea Institute of Startup and Entrepreneurship Development	



Visit by the Minister of Small and Medium-sized Enterprises and Startups



On February 1, 2024, Minister Oh Young-joo from the Ministry of SMEs and Startups visits the HUJECT office.









Healthy Earth, Happy Us!



Become The First Climate Tech Unicorn Company in Korea, HUJECT



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