

# Rock Environment and Energy Institute

2022 Annual Report

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## 1. Basic information

Beijing Shunyi District Panzhishi Environment and Energy Research Centre (REEL, April 2018 at the Beijing Shunyi District Civil Affairs Bureau)

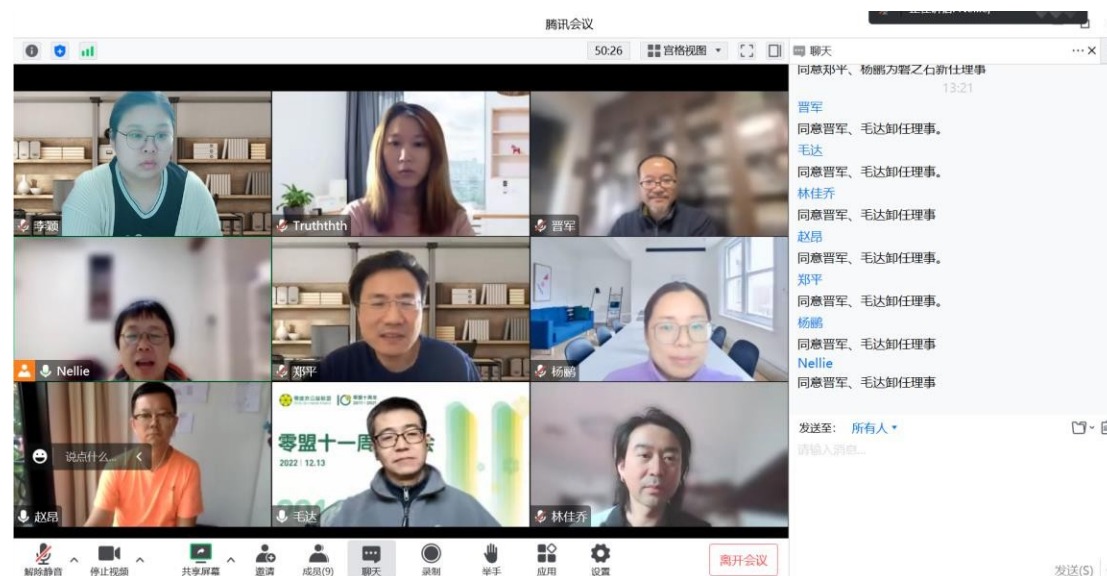
Granite Institute for Environment and Energy, formerly known as Granite Institute for Environment and Energy, was founded in July 2012 as an independent think tank for environmental and energy policy research. We are an independent think tank on environmental and energy policy, focusing on policy analysis of the energy transition, and discussing how to accelerate the low-carbon transition of China's energy system while taking into account social equity, climate change, environmental quality, and public health, and we hope to promote multi-party participation, openness, and rationality in the policy discussion in the process.

### **Vision:**

Dedicated to promoting the establishment of an environmental policy decision-making mechanism based on procedural justice and rational critique as the cornerstone of a more inclusive, just and sustainable society.

## 2. Institution-building

### 2.1 Convening of the Council



**Figure 1: Third meeting of the Second Governing Council**

During the year, the Agency held four Board meetings on 21 April, 07 July, 22 August and 13 December 2022, at which the Board members communicated and voted on matters related to the development of the Agency in accordance with the Agency's Articles of Incorporation.

On 21 April 2022, the sixth meeting of the first council of the institution was held by online meeting, five council members - Pan Xiaochuan, Jin Jun, Zhao Ang, Mao Da and Lin Jiaqiao; supervisor Li Ying; and proposed council member Wang Yanhui attended the meeting. On behalf of the organisation, Lin Jiaqiao and Zhao Ang reported the details of the work carried out in 2021 and the development plan of the organisation in 2022 to all the council members. After the vote of the first board members, the election of the second board members was completed. Jin Jun, Mao Da, Wang Yanhui, Lin Jiaqiao and Zhao Ang were unanimously elected as the members of the second session of the Board of Directors, and Yang Fuqiang and Pan Xiaochuan were appointed as the senior advisors of the organisation.

On 07 July 2022, the first meeting of the second session of the Board of Directors of the Agency was held by online meeting with five directors - Jin Jun, Mao Da, Wang Yanhui, Lin Jiaqiao and Zhao Ang; Supervisor Li Ying attended the meeting. All directors passed the following resolution at this meeting: Approve the application for departure of Lin Jiaqiao, the former legal representative/chairman and co-director of the agency, and from 01 August 2022, only retain the He has been appointed as a member of the Board of Directors. Principle Director Wang Yanhui has been the Legal Representative/Chairman of the Board of Directors of the Agency since 01 August 2022, and has assumed the position of Deputy Director to participate in the management of the Agency.

On 22 August 2022, the second meeting of the second board of directors of the institution was held by online meeting. Five directors - Jin Jun, Mao Da, Wang Yanhui, Lin Jiaqiao and Zhao Ang; supervisor Li Ying; and proposed supervisor Yuan Yating attended the meeting. At this meeting, all directors approved the second version of the bylaws of Beijing Shunyi

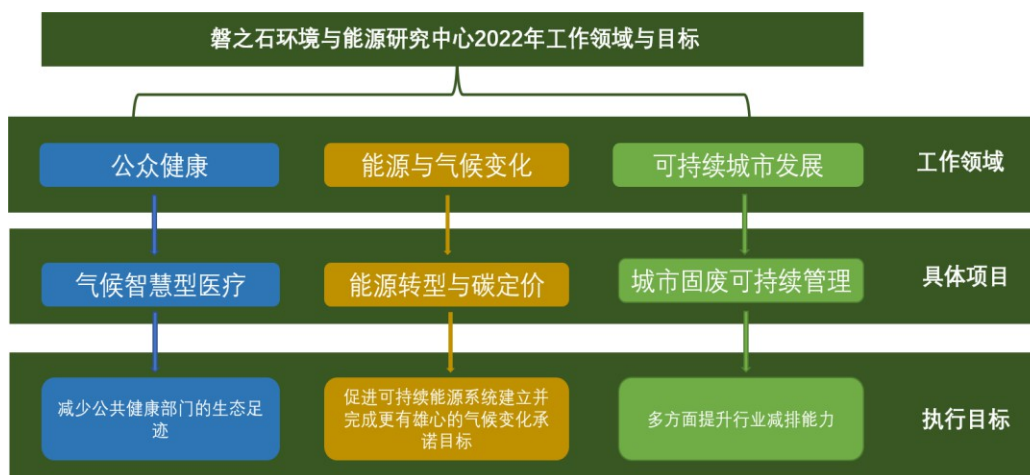
District Panzhishi Environment and Energy Research Centre, updated in August 2022, and agreed that after the bylaws were adopted, Yuan Yating would take over the position of supervisor of the institution.

On 13 December 2022, the third meeting of the second council of the institution was held by online meeting, five council members - Jin Jun, Mao Da, Wang Yanhui, Lin Jiaqiao, and Zhao Ang; supervisor Yuan Yating; and proposed council members Zheng Ping and Yang Oriole attended the meeting. The Council invited Zheng Ping and Yang Oriole to join the Council because of the resignation of Principle Directors Jin Jun and Mao Da. By the resolution of the Council, it was confirmed that the members of the second Council were changed to Wang Yanhui, Zhao Ang, Lin Jiaqiao, Zheng Ping and Yang Oriole. In addition, the Council approved the resignation of Zhao Ang since

Resigned as Director of the Agency on 01 January 2023 and his related work was taken over by the former Deputy Director, Mr Wang Yanhui.

## 2.2 Project strategy

In 2022, Granite's work will focus on the Strategic Issues of the Institutional Plan, with policy discussions on the energy transition as the main focus, climate-smart healthcare and regional and local cooperation around energy transition and carbon pricing as the anchor point, and consideration of elevating the roles of public health and sustainable urban development in decision-making on climate change.



**Figure 2: Areas of Work and Objectives of the Granite Centre for Environment and Energy Research**

### 2.3 Tenth anniversary activities

To commemorate the 10th year of the organisation's existence in 2022, the team has developed a video entitled "Memories | Granite 10 Years On". Starting from the vision of the organisation, the video provides a timeline of the development of Granite and the work we have done as a private, independent think tank in environmental policy making.



**Figure 3: Video cover of "Memory | Ten Years of Rock".**

In order to promote the development of social welfare undertakings, all the staff of the organisation, in line with the common construction of a harmonious society, took the opportunity of the 10th anniversary of the establishment of the organisation to make a free donation to the Guangzhou Provincial Yangshan Public Welfare Promotion Association, and the donation of 5000 RMB was used in the project of "New WoTeY Home".



### 3. Project activities

#### 3.1 Climate-smart healthcare



**Fig. 4: Mr Zhao Ang spoke at the forum "Green Hospital in Action - Carbon Road to the Future" co-organised by Granite.**

The health sector is at the centre of the response to climate change-induced health problems, but at the same time the health sector itself has environmental impacts from energy consumption and pollutant emissions in its operations, which in turn create direct and indirect public health burdens. In recent years, the public health impacts of climate change, which have become increasingly prominent, have become progressively more severe. As the global population grows and the demand for healthcare increases, the healthcare sector's carbon emissions are also increasing accordingly. In September 2020, China proposed the "3060 dual-carbon" target, and a national strategy and roadmap for achieving the dual-carbon target are also in the pipeline. Against this backdrop, the healthcare sector should actively engage in climate change initiatives, such as using more renewable energy and purchasing more low-carbon products.

This year's Granite Climate-Smart Healthcare project focuses on sustainable procurement in the healthcare sector and low-carbon transition in public hospitals. Sustaining sustainable procurement in the healthcare sector focuses on the procurement of medical goods, including a comprehensive procurement evaluation of hospitals and the potential replacement of specific hazardous chemicals, while helping public hospitals make a low-carbon transition aims to reduce the carbon emissions of public hospitals in China through carbon accounting, roadmap development, and other measurable ways.

#### Project progress

**Table 1: Progress of the Climate-Smart Healthcare 2022 Programme**

realm	make headway
Promoting sustainable procurement in the health sector	Jan-06, promoted the participation of Peking University Hospital in the pilot project of replacing PVC infusion sets, completed the procurement standard and sustainable procurement manual based on the "Sustainable Procurement Assessment Guidelines" in collaboration with the Central Joint Certification Centre and Peking University Hospital

realm	make headway
Facilitating low-carbon transformation of public hospitals	<p>04 May-May Completion of the Decarbonisation Roadmap Guidelines for Public Hospitals in China;</p> <p>05 Completion of the Guidelines for Accounting for Greenhouse Gas Emissions in Public Hospitals in January;</p> <p>06 From August to August, the Third Hospital of Peking University and the Stomatological Hospital of Peking University were promoted to carry out carbon accounting for hospitals;</p> <p>07 Mar-09, completed the Chinese translation of the Climate Impact Checking Tool for Healthcare Institutions and developed a Chinese version of the tool's user guide; at the same time, developed decarbonisation roadmaps for the Third Hospital of Peking University and the Affiliated Stomatological Hospital of Peking University, respectively;</p> <p>In September, with the assistance of the Green Hospital Professional Committee, a simultaneous online and offline conference on "Energy Efficiency Improvement in China's Public Buildings" was held at the China Academy of Building Standards and Design (CABSD);</p> <p>In December, with the assistance of the Green Hospital Committee, an online forum on "Green Hospital in Action - Carbon Road to the Future" was successfully held;</p> <p>Throughout the year, 11 articles on related topics and 4 audio programmes were published.</p>

### 3.2 Energy transition and carbon pricing

How to incorporate economic, environmental and social considerations into the construction of a carbon pricing system, and how to make the topic more widely discussed, has always been what Granite hopes to achieve. Since 2017, Granite has been working on the Energy Transition and Carbon Pricing project, which has raised concerns at home and abroad about the sustainability and effectiveness of carbon pricing in China.

For the period 2018-2022, we are working with the China Association for the Promotion of International Civil Society Co-operation (CACISCO) to integrate discussions on energy and climate change into the project by implementing the Energy Transition and Carbon Pricing Project (ETCP) The goal is to establish a broad regional cooperation platform to facilitate technical and policy exchanges on issues related to energy transition and carbon pricing through the effective participation of the ETCP, which will in turn provide valuable references and recommendations for the rational formulation of regional energy and climate change policies.

#### Project progress

**Table 2: Energy Transition and Carbon Pricing Project Progress to**

times	make headway
03 Month	Completion of the report Comparing the Carbon Neutral Strategies of Four East Asian Countries: A Mix of Cooperation and Competition.
full year	Published 8 articles on related topics and 44 audio programmes, 19 in English and 25 in Chinese.

### 3.3 Sustainable management of municipal solid waste



Since September 2020, when China announced that it would strive to achieve carbon neutrality by 2060, the implementation of carbon neutrality strategies has gone from being a hot topic of public policy to becoming an action goal and a specific programme for each unit and organisation. Solid waste management is an important part of achieving China's "3060" dual-carbon goal, and reducing carbon emissions has become one of the key objectives of solid waste management. This brings challenges and opportunities for social organisations working in the solid waste sector: to rationally evaluate the carbon emission reduction of their projects, and to contribute to the achievement of the dual-carbon goal in their regions in a measurable and cumulative manner.

Following Vanke Foundation's support to Granite's project "From Concept to Methodology: Helping Municipal Solid Waste Social Organisations to Participate in Carbon Neutral Strategy Implementation" in 2021, which helped solid waste social organisations to increase their awareness of climate change and the concept of "carbon neutral", the organisations will continue to work with Vanke Foundation to build the capacity of solid waste social organisations to calculate carbon emission reductions. In 2022, the organisation will continue to work with the Vanke Foundation to build the carbon emission reduction calculation capacity of social organisations in the solid waste sector. The goal is to improve the carbon emission reduction calculation capacity of social organisations focusing on the solid waste sector, and to use carbon emission reduction data to understand and assess the effectiveness of the projects, so as to help the relevant social organisations assess and adjust the direction and details of the projects, and to help China to achieve the carbon neutrality climate commitment.

On the issue of sustainable management of municipal solid waste, this year Granite also declared its participation in the grassroots science popularisation project of Shunyi District Science and Technology Association, which is in charge of the project. Starting from the issue of plastic reduction, Granite is committed to popularising the knowledge of young people in science and technology, and has completed the project of "Clean Plastic Future", which is a popularisation project for the youth on environmental protection activities. In addition, the organisation is also actively involved in the carbon neutral activities of social organisations in the solid waste sector, such as those carried out by the Woqi Foundation

and ZeroMeng Public Welfare.

## Project progress

**Table 3: Progress of the Sustainable Management of Municipal Solid**

Area or project	make headway
Capacity Building for Carbon Reduction	Jan. Completion of the translation of the Whole Life Cycle Municipal Solid Waste (MSW) Management GHG Emissions Estimation Tool and its user manual.
Calculations for Social Organisations in the Solid Waste Sector	September, completion of the Tool for Estimating Greenhouse Gas Emissions from the Full Life Cycle Management of Municipal Solid Waste. Handbook infographic. Workshop on "From Carbon Accounting to Practical Estimation of Carbon Emission Reduction Potential of Municipal Solid Waste", Guangzhou, China.

Area or project	make headway
	<p>Place.</p> <p>10 A webinar on "Carbon Emission Reduction in the Solid Waste Sector: Quantifying Emission Reduction Actions by Social Organisations" was held in January.</p> <p>11 month, communications were initiated with more than 10 organisations to gather feedback on the partners' use of the calculation tool.</p> <p>12 In January, the Manual for the Use of the Quantified Carbon Emissions Tool for Social Organisations in the Field of Solid Waste Management was completed.</p>
"Clean Shape the Future" Youth Environmental Science and Technology Programme	<p>11 From December to December, organise online and offline training for volunteers of the "Clean Plastic Future" community-based environmental protection campaign. Organise a short video competition and provide training for participants.</p> <p>12 In January, family plastic reduction cases were solicited, and the contents were collected and compiled into a booklet after the interviews.</p>
Other activities	<p>In June, we co-organised with ZeroMeng Public Welfare the launch of a report on the challenges and opportunities of domestic waste management under climate policy, which was written by the Rock Rock team supported by ZeroMeng Public Welfare under the Friends of Nature Foundation's Bamboo Stream programme.</p> <p>In July, Lin Jiaqiao represented the organisation to participate in the "Dual Carbon Targets and Community Practices" series of empowerment activities of WKF and shared with the partners on carbon neutrality.</p> <p>In November, Ying Li and Athena Yuan represented the organisation to actively participate in WKF's "Dual Carbon and Community" empowerment workshop, sharing the organisation's research work in the process of communicating with partners.</p> <p>In December, Ying Li represented the organisation to participate in the annual ZeroMeng Public Welfare Conference, where she shared her vision of a new chapter in solid waste treatment with the participating organisations on the development of the ZeroWaste Coalition.</p> <p>In December, Ang Zhao represented the organisation at the Solid Waste Issues Line organised by the Institute for Global Environmental Strategies (IGES).</p> <p>Upper Seminar.</p>

## 4. Project outputs

In 2022, Project Granite's production will consist mainly of seminars and training, reports and articles, and audiovisual production. According to the project schedule Arranging online and offline seminars and training activities, writing report content, while actively increasing the production of articles, revamping the trial product, in order to achieve the goal of enriching the type and content of the project production.

### 4.1 Seminars and training impact

This year, the agency participated in and organised a number of sharing sessions as well as symposiums, and invited experts and scholars in related fields to participate in the discussions, which were richer in terms of discussion content compared with last year.



**Table 4: Details and Impact of Workshops and Training**

sports event	Main elements and implications
Climate-smart healthcare	<p><b>Non-PVC Infusion Device Procurement Results Sharing Session</b></p> <p>This meeting is a closed-door sharing session on the results of the pilot project to replace PVC infusion sets in hospitals from 2021 to 2022 under the project to promote sustainable procurement in the healthcare sector. In addition to sharing the experience of the pilot hospital (Peking University Hospital) and inviting Ding Lark from Ecological Environment Development Centre to share the environmental, health and climate impacts of PVC infusion replacement and procurement, the meeting also invited the following speakers</p> <p>A number of experts from the Institute of Hospital Management of the Health Commission and China-Japan Friendship Hospital were invited to participate in the exchange and discussion of topics.</p>
Climate-smart healthcare	<p><b>Seminar on Energy Efficiency Improvement in Public Buildings in China</b></p> <p>This meeting is one of the results sharing meetings under the project of assisting public hospitals in low-carbon transformation. The conference was hosted by the project partner Green Hospital Professional Committee and co-organised by Granite, with speeches from leaders from China Building Energy Efficiency Association and Beijing Hospital Management Centre, as well as more than 10 hospital leaders from Beijing Friendship Hospital of Capital Medical University, Peking University Cancer Hospital, Peking University People's Hospital and other hospitals. The conference, which focused on sharing low-carbon development strategies and advanced technologies for energy saving and emission reduction in medical institutions at home and abroad, attracted more than 14,000 participants from the medical sector. Zhao Ang, the project team leader, also shared his experience at the conference.</p> <p>Experience gained in the process of carbon accounting and development of decarbonisation roadmap reports for point hospitals.</p>
Climate-smart healthcare	<p><b>Green Hospital in Action - "Carbon" Road to the Future" Online Forum</b></p> <p>This meeting is one of the outcome sharing meetings under the Enabling Public Hospitals to Transform into Green Hospitals. With the project</p>



sports event	Main elements and implications
	The sub-topics were shared.
Sustainable management of municipal solid waste	<p><b>From Carbon Accounting to Estimating Carbon Emission Reduction Potential of Municipal Solid Waste Hands-on Workshop</b></p> <p>This workshop is one of the activities under this year's Vanke Public Welfare Foundation's Carbon Emission Reduction Calculation Capacity Building Project for Social Organisations in the Solid Waste Sector, and 23 social organisations focusing on waste composting, incineration, and rural rubbish from across China were invited to participate in the workshop. Taking into account the actual situation of the participating partners, the workshop was divided into two sections: content sharing and emission reduction practice, which played a certain role in promoting the social organisations to reasonably evaluate the carbon emission reduction of their projects, and help their regions to achieve the dual-carbon goal in a measurable and cumulative way.</p> <p>Use.</p>
Sustainable management of municipal solid waste	<p><b>Carbon Emission Reduction in Solid Waste: Quantifying Emission Reduction Actions by Social Organisations Webinar</b></p> <p>This workshop is one of the activities under the Carbon Emission Reduction Calculation Capacity Building Project for Social Organisations in the Solid Waste Sector supported by Vanke Foundation this year, and it focuses on a number of topics, such as the complex impacts of the dual-carbon target on the sustainable management of waste, and the experience of waste emission reduction pathways, etc. In addition, the workshop also focuses on the use of the tool. In addition, the workshop also focused on the use of the tool, based on the feedback from the workshop "From Carbon Accounting to Estimating Carbon Emission Reduction Potential of Municipal Solid Waste in Practice", more comprehensively introduced the content and use of the tool, and invited a number of partners to bring the participants with practical application of the emission reduction experience from different topics. The conference room was attended by 108 participants through</p> <p>The live stream was viewed over 700 times.</p>



## 4.2 Text production Impacts

During the year, the agency participated in writing and publishing many types of textual research outputs  including articles and reports on a variety of topics such as energy transition, climate policy observation, and carbon emission calculations, etc. The content of the outputs  was forwarded by a number of media outlets such as China Daily Online and EnvironmentalEconomy. In addition to this, the views of institutional members have been cited by the media, for example, on 16 April 2022, the New Beijing News published an article on Hainan's carbon emissions trading system, in which Lin Jiaqiao's views on the trading of this emissions trading system were cited.

**Table 5: Report and Article Release Details and Impacts**

Reports and Articles	Main elements and implications
Energy Review & Environmental Review	As witnesses and witnesses to the past year, we are experiencing dramatic changes in the global energy and environmental systems, as well as many challenges. Each year Granite releases two anthologies, Energy Review and Environment Review, to include current affairs articles completed by the organisation in the previous year. Production  covers a wide range of topics, including "Low Carbon Transportation", "Behavioural Change", and "Carbon Markets" in this year's collection. As an organisational publication, the report shares our observations and views on environmental and energy issues in 2021, expanding the topics we communicate with our partners.
Comparing the Carbon Neutral Strategies of Four East Asian Countries: A Mix of Cooperation and Competition.	This policy brief is one of the outputs of the Energy Transition and Carbon Pricing Programme. It focuses on the background, policy measures, and implications of carbon neutral strategies in four East Asian countries. China, Japan, and South Korea announced their respective national carbon neutrality targets at the end of 2020, a new round of national commitments to be used to support the global temperature control goal of a 1.5°C temperature rise by the end of the 21st century. In contrast, Mongolia's economic development process, the nature of its energy dependence on coal, and the importance of its  mouth-oriented mining industry make its climate mitigation efforts less ambitious. The inclusion of Mongolia in the brief provides researchers with a fuller view of the climate decisions of different countries in East Asia. Heart.
Opportunities for Sustainable Management of Municipal Solid Waste in China in the Context of Climate Policy	The report focuses on two main topics: the evolution of municipal solid waste (MSW) management in the European Union (EU) and its relation to carbon reduction, and the opportunities for managing carbon emissions from China's MSW management sector under a dual-carbon target. China's low-carbon transition should be accompanied by a move towards municipal solid waste management. The EU relies on upgrading recycling and incineration and reducing the proportion of landfill to achieve a 22 per cent carbon reduction in solid waste disposal in 2019 compared

Reports and Articles	Main elements and implications
<p>Manual for the use of the Quantified Carbon Emissions Tool for Social Organisations in Solid Waste Management</p>	<p>This manual is one of the outputs under the carbon emission reduction calculation capacity building project for social organisations in the field of solid waste. It is based on the tool sharing and training content of the project, and with the maturity of the use cases of some of the partners paving the way, the team openly solicits emission reduction cases from social organisations in the field of solid waste and seeks to collect public welfare projects that have successfully used the cases to carry out carbon accounting in a collection of cases in order to show the results of actions taken by social organisations in the process of In order to demonstrate the achievements of social organisations in helping to reduce carbon emissions. After active communication between the project team and the partners, four cases, including Affin Environmental and Green Innovation Development Centre, were finally collected in the casebook. The manual provides reference cases for different types of public welfare organisations to use the Solid Waste Carbon Emission Reduction Calculator, which helps the project to achieve its goal of contributing to carbon reduction capacity building.</p>
<p>Peking University Hospital Sustainable Procurement Document</p>	<p>This procurement document is one of the outputs under the agency's project to promote sustainable procurement in the healthcare sector. Based on the content of the "Sustainable Procurement Implementation Guide for Hospitals", which was completed with the assistance of the Central United Certification Centre (CUCC) invited in the previous year, the project team, taking into account the actual situation of the Peking University Hospital, developed a sustainable procurement process and implementation management document suitable for the hospital, with the document focusing in particular on the description of the process of replacing PVC products by non-PVC products.</p>
<p>Sustainable procurement criteria for disposable gloves</p>	<p>This standard is one of the outputs under the organisation's project to promote sustainable procurement in the healthcare sector. The project team completed the translation of the Chinese version based on the content of the English standard developed by the Plastics Working Group of the European Healthcare Market Transformation Network of the International Healthcare Without Harm organisation. The standard is premised on prioritising sustainability and has been written to provide a standardised set of tender processes related to disposable gloves that can be used in the European healthcare sector. The project team believes that presenting its content in Chinese will help to assist our healthcare sector to Workers to raise awareness of sustainable procurement.</p>

<p>Healthcare Sustainable Procurement Index tool and its user guide</p>	<p>The tool and guide is one of the outputs under the agency's project to promote sustainable procurement in the healthcare sector. The English version of the tool, which was jointly released by the United Nations Development Programme (UNDP) and SPHS in January 2022, provides a consistent and transparent methodology for assessing suppliers' key sustainability competencies. The user guide provides a detailed description of the development background, the tool structure and scoring methodology, and the use of the tool. The project team recognised that releasing a Chinese version of the tool would be useful in helping the healthcare sector in China to use the tool for procurement scoring, and so based on the English version, the project team revised the Chinese version to make it more suitable for use by the healthcare sector in China.</p>
<p>A roadmap for decarbonising China's public hospitals</p>	<p>This guideline report is one of the organisation's products under helping public hospitals in their low-carbon transition. The content refers to the Global Roadmap for Decarbonisation in the Healthcare Sector published by Healthcare Without Harm International and Kaiser Permanente's experience in carbon neutrality, and compiles a guide for developing a decarbonisation roadmap for China's public hospitals, with the aim of planning for the country's healthcare organisations to plan for their emissions reductions</p> <p>The path provides guidance.</p>
<p>Guidelines for Accounting for Greenhouse Gas Emissions in Public Hospitals</p>	<p>This guideline report is one of the outputs under the organisation's efforts to help public hospitals under the low-carbon transition. At a time when China has not yet</p> <p>In the context of the Taiwan GHG Accounting Guidelines for the Healthcare Sector, the project team has developed this accounting guideline with reference to the Corporate Accounting and Reporting Standard of the GHG Inventory Protocol developed and established by the World Wide Institute for Nature (WWI) and the World Business Council for Sustainable Development (WBCSD), which is capable of assisting China's public hospitals in</p> <p>Role in managing GHG risks, identifying opportunities for emission reductions, etc.</p>

Reports and Articles	Main elements and implications
Climate impact screening tools and guidelines for healthcare organisations	<p>The tool and guide is one of the organisation's outputs under its efforts to help public hospitals undergo a low-carbon transition. The English version of the Healthcare Climate Impact Check Tool was developed by Healthcare Without Harm International to calculate the GHG emissions of healthcare organisations in any country around the world. The tool guide contains a detailed description of GHGs and their measurement estimates as well as how the tool can be used. The project team recognised that releasing the Chinese version of the tool would be useful in helping public hospitals in China to use the tool for climate impact screening, so based on the English version the project team revised the Chinese version to make it more suitable for use in public hospitals in China.</p>
writings	<p>In addition to the above mentioned report, Granite 2022 has written several articles related to the project's research topics.</p> <p>The content has been republished by a number of media outlets, including China Environment News, providing a wealth of valuable research for different audiences.</p> <p>Results.</p>

### 4.3 Impact of audiovisual outputs

The organisation maintained a fixed frequency of audio-visual production 🎧 during the year and achieved some success in terms of airtime and audience response.

**Table 6: Details of Audiovisual Product Launches and Impacts**

name (of a thing)	Main elements and implications
sound frequency	<p>2022 In the audio programme, in addition to the interpretation of the report's content and sharing of issues, we also invited a number of experts</p> <p>The REEI Energy and Climate Podcast is a podcast of the REEI Energy and Climate Report in Chinese and the REEI Energy Review in English. This year, the project team updated a total of 54 podcasts, including 12 Chinese podcasts "Interpretation of Overseas Think Tank Reports on Energy and Climate Change" and 13 "Energy Review", and 13 English podcasts "REEI Energy and Climate Podcast". Due to the end of the Energy Transition and Carbon Pricing Project, since August 2022, the organisation has completed the revamping and upgrading of the Chinese and English audio programmes, and the revamped versions of Nengnengnengneng and Energy Current: In Search of Net Zero System have completed the updating of eight audio programmes each. By the end of the year, the number of Chinese podcast albums played exceeded 280,000 times, compared with 2021.</p> <p>The English-language audio albums were distributed mainly in Asia and North America, reaching more than 70 countries and territories.</p> <p>District.</p>
video	<p>This year's institutional video production 🎥 is "Memory Glimpse   Rock of Stone 10 Years Back". This is a documentary video to commemorate the ten years of the organisation's existence. Starting from the vision of the organisation, the video looks back at the development of Granite in the past ten years on the basis of a timeline, and presents the work we have done as a private and independent think tank in environmental policy making. The sunshine, smiling faces and dreams that we have seen in the past ten years have become the long sweep of your life and ours.</p> <p>Shadow. After the video was released through WeChat, Weibo and other channels, it gained a lot of attention and interaction from partners.</p>

## 5. Funding and expenditure

### 5.1 Source of funds

The total project funding for Granite Environmental and Energy Research Centre in 2022 is RMB 3,368,363.26 yuan. The main funders are Rockefeller Brothers Fund (USA) Beijing Representative Office, Gift Asia (USA) Beijing Representative Office, United Nations Development Programme (UNDP) China Representative Office, and China Association for the Promotion of Civil Cooperation Organisations (CAPCO). Income from donations was RMB 3,247,550.57, income from services rendered was RMB 120,000.00, and other income was RMB 812.69.

#### Endowment income

sports event	Current year's incidence
Unrestricted income	3,028,824.35
Energy Transition and Carbon Pricing (ETCP)	213,053.07
Vanke Project	192,196.28
Grant Asia (USA) China Representative Office	310,145.00
Friends of Nature project	16,400.00
Institutional income	205,550.00
22-623 Strategic Communications	2,091,480.00
Restricted income	218,726.22
Sustainable Procurement in Healthcare SHIPP	218,726.22
add up the total	3,247,550.57

#### Income from the provision of services

sports event	Current year's incidence
Grassroots Science Action Plan Project	120,000.00
add up the total	120,000.00


#### Other income

Other income was \$812.69, mainly interest income.

## 5.2 Funding support

The total expenses in 2022 will be \$1,200,137.78, of which \$485,145.77 will be for business activities and \$485,145.77 will be for administrative expenses. 714,992.01.

### Cost of operational activities

sports event	Current year's incidence
Endowment branch 	5,000.00
Sustainable Procurement Project/SHIPP	73,100.00
Energy Transition and Carbon Pricing (ETCP)	98,868.58
Grant to Asia G2A Hospital Emission Reduction 2022	92,934.38
Vanke Vanke2022	95,242.81
HKCS Popular Science Project	120,000.00
add up the total	485,145.77

### overheads

sports event	Current year's incidence
workers' wages	375,764.00
Basic social security contributions	119,733.37
housing provident fund	51,783.60
welfare payments	846.00
labour cost	11,900.00
office expenses	6,730.14
rental fee	84,000.00
travel costs	352.56
travelling expenses	931.69

insurance premium	493.00
sports event	Current year's incidence
communication costs	409.70
Disability Employment Guarantee Fund payable	9,105.37
service fee	47,146.63
property cost	2,925.95
utility bills	1,000.00
the rest	98.00
depreciation	0.00
heating costs	0.00
handling fee	1,772.00
add up the total	714,992.01



## 6. concluding remarks

The year 2022 marks the first decade since the establishment of the Agency. Despite the impact of three years of ongoing outbreak prevention and control, the Agency We have faced a number of challenges in our development and programme delivery, but in meeting them we have continued to explore our potential and new opportunities. The year saw a new leadership transition, a steady increase in programme delivery, **a n d** the development of a podcast that reached an even larger audience than the previous year.

Although the Energy Transition and Carbon Pricing Project, which we have been implementing since 2018, has reached its final stage, we have continued to follow up on the research issues and upgraded our communication products based on the project's research. While actively exploring new project areas, we have also met more partners who are working together to build a "dual-carbon" era, and they have provided great support for the smooth implementation of the organisation's projects and activities this year.

At the same time, the organisation is also actively exploring new ways of increasing the impact of the organisation and its projects, maintaining a certain frequency of podcasts and opinion articles, and methodically providing new perspectives and ideas for policy analysis on energy and environmental issues. In 2023, the organisation enters its second decade, and in the foreseeable future, we remain clearly committed to the vision of our work, which is to provide valuable input and analysis to policy discussions on the low-carbon transition of China's energy system, while taking account of the need for social equity, climate change, and public health. As the organisation enters its second decade in 2023, we remain clear in our vision of providing valuable inputs and analyses to the policy debate on the low-carbon transition of China's energy system, taking into account social equity, climate change, environmental quality, and public health.

## 7. a thank-you note

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