

A N N U A L
R E P O R T

年报

2020

CTEAM

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王石/ Wang Shi

新冠疫情在全球范围内还没有得到抑制，气候变化是另一个正在发生的全球性的问题，而且问题更大。气候变化是一个急性和慢性交织的疾病，既有高温、热浪、洪水、台风等极端天气事件，像地球发烧、打喷嚏一样是急性发作；也有冰川融化、海洋酸化、珊瑚礁大面积死亡、生物多样性逐步丧失等慢性发作，就像地球的肌体发生了慢性的炎症。

因为新冠疫情，风险的预警和抵御，前所未有的凸显了重要性。

Mired deep in the havoc wreaked by COVID-19, the world is facing up to another, and bigger, problem on the global scale—climate change. Climate change is not dissimilar to a disease where you get acute symptoms intertwined with chronic ills. There can be acute episodes in the form of extreme weather events, such as high temperatures, heat waves, floods, and typhoons, which are like the Earth's having a temperature and sneezing; then there are the more insidious manifestations—the melting glaciers, ocean acidification, widespread coral mortality, and gradual loss of biodiversity—not all that different from chronic inflammation of the Earth's flesh and bone.

Early warning and prevention of risks has unprecedentedly highlighted its importance in the wake of the pandemic.

新冠肺炎很可怕，但气候变化可能更糟

比尔·盖茨/ Bill Gates

我明白（疫情）当下我们很难去考虑像气候变化这样的问题。当灾难来袭时，人类的天性是专注于眼前最迫切的需求，尤其是在面对像新冠肺炎这样严重灾难的时候。然而，急剧上升的气温看起来可能离我们很遥远，但这并不会减轻这一问题对我们的影响。为了避免可能出现的最坏后果，唯一的方式就是现在加倍投入。即便全世界正致力于控制疫情和开始从中恢复，我们也需要立即采取行动，通过建立和部署消除温室气体排放的创新方法来避免气候灾难。

你如果想理解气候变化将造成怎样的损害，就看看新冠疫情，然后将其造成痛苦的时间延长。如果我们不消除世界上的碳排放，它所造成的周期性破坏与这种流行病造成的生命和经济损失相当。

在未来四十年内，预计全球气温升高将使全球死亡率增加相同的数量，即十万分之 14（新冠疫情的年死亡率）。到本世纪末，如果碳排放量增速依旧很快，气候变化将导致每 10 万人中的 73 人死亡。在碳排放量较低的情况下，死亡率会降至十万分之 10。

换句话说，到 2060 年，气候变化可能像新冠肺炎一样致命，而到 2100 年，气候变化的致命性可能达到新冠肺炎的五倍。

I realize that it's hard to think about a problem like climate change right now. When disaster strikes, it is human nature to worry only about meeting our most immediate needs, especially when the disaster is as bad as COVID-19. But the fact that dramatically higher temperatures seem far off in the future does not make them any less of a problem—and the only way to avoid the worst possible climate outcomes is to accelerate our efforts now. Even as the world works to stop the novel coronavirus and begin recovering from it, we also need to act now to avoid a climate disaster by building and deploying innovations that will let us eliminate our greenhouse gas emissions.

If you want to understand the kind of damage that climate change will inflict, look at COVID-19 and spread the pain out over a much longer period of time. The loss of life and economic misery caused by this pandemic are on par with what will happen regularly if we do not eliminate the world's carbon emissions.

Within the next 40 years, increases in global temperatures are projected to raise global mortality rates by the same amount—14 deaths per 100,000. By the end of the century, if emissions growth stays high, climate change could be responsible for 73 extra deaths per 100,000 people. In a lower emissions scenario, the death rate drops to 10 per 100,000.

In other words, by 2060, climate change could be just as deadly as COVID-19, and by 2100 it could be five times as deadly.

C TEAM 抗疫记录

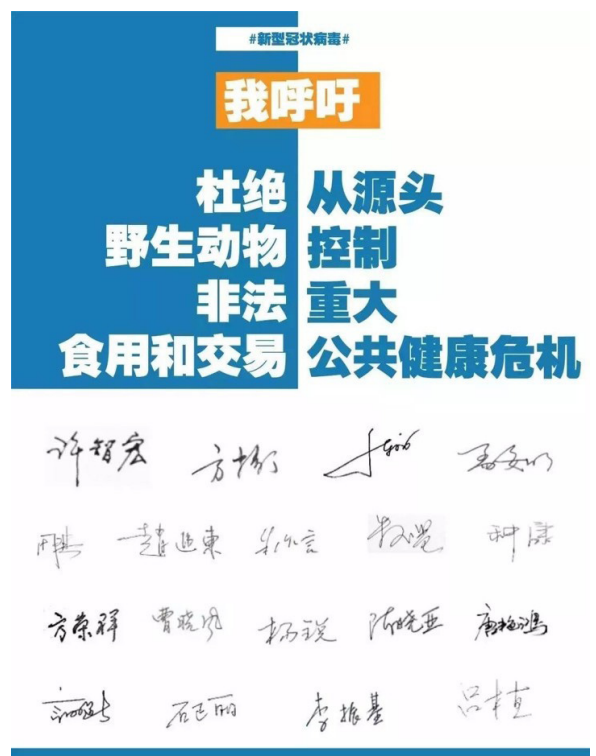
2020 年 1 月，新冠感染病例已在全国多省区发生。

除夕当日，十九名来自全国高校、科研院所的院士学者联名签字倡议：杜绝野生动物非法贸易和食用，从源头控制重大公共健康风险。希望政府主管部门和学者以及社会公众共同努力，将此次危机及时有效地转化为保护生态和公共安全的行动！

面对疫情，大道应对气候变化促进中心（C Team）参与了全国环保 NGO 伙伴的倡议，共同行动，杜绝野生动物非法交易，维护公共健康。

为帮助公众理性、客观且直观地了解认识疫情形势，大道应对气候变化促进中心、阿拉善 SEE 基金会、乡村发展基金会联手公众环境研究中心（IPE），在“蔚蓝地图 APP”平台推出更精细的地市级新型冠状病毒疫情地图，动态更新新型肺炎病例变动状况。

借助蔚蓝地图地理信息技术的可视化展示，用户可以直观地了解自己及亲友周边的疫情动态，便于采取防护措施；也能够协助各地科学决策，协同应对疫情。



C TEAM EFFORTS TO FIGHT AGAINST THE PANDEMIC

January 2020. Cases of COVID-19 had been reported across several provinces in China.

It was the eve of Chinese New Year, when 19 scholars and academicians from higher education and research institutions across China signed a joint initiative, vowing to put an end to the illegal trade and consumption of wild animals, eradicating major public health hazards from the source. Under the initiative, government authorities, scholars and members of the public are urged to join forces to turn this crisis into swift and effective action in the protection of nature and public safety.

In the light of the challenges presented by the pandemic, C Team joined in on the initiative of the environmental NGO partners nationwide to take action to stop the illegal wildlife trade and safeguard public health.

To help raise public awareness and shed light into the challenges, C Team, the Society of Entrepreneurs and Ecology (SEE) and the Foundation of Rural Development teamed up with the Institute of Public and Environmental Affairs (IPE) to launch a more sophisticated version of COVID-19 map (prefecture and municipal level) on the “Blue Map App” platform, a medium to access dynamic updates on the pandemic with.

Through Blue Map’s geovisualization technology, users have access to Covid updates on the neighborhoods where they live and take protective measures accordingly; it also helps make science-based decisions to deal with the pandemic.



关于我们

About us



为提升企业和公众对气候危机的认知，推动中国企业家在应对气候变化中的行动力和国际影响力，王石等企业领袖和环保公益人士于 2014 年发起应对气候变化企业家联盟（C Team）。2017 年 5 月 8 日，大道应对气候变化促进中心在深圳正式注册成立，致力于支持中国企业家成为应对气候变化的行动引领者，推动绿色创新与变革，探索中国特色的绿色低碳发展模式，促进可持续发展和生态文明建设。



C Team

C 代表 Carbon 碳，Clean 清洁，Climate Action 气候行动，以及 China 中国，Champions 引领者、拥护者。C Team 意为 China Champions for Climate Action，中国气候行动的引领者、拥护者。

To raise awareness of the climate crisis among companies and the general public, and to promote the action and international visibility of Chinese entrepreneurs in addressing climate change, business leaders such as Wang Shi and environmentalists initiated the China Champions for Climate Action or C Team in 2014. .On May 8th, 2017, C Team was formally registered in Shenzhen. It is committed to supporting Chinese entrepreneurs to be action leaders in addressing climate change, promoting green innovation and revolution, exploring a green and low-carbon development mode and promoting sustainable and eco-friendly development.

发起人

Sponsor

王石
Wang Shi

万科集团创始人，
万科公益基金会理事长
Founder of Vanke, Chairman of
Vanke Foundation

姚明
Yao Ming

中国篮球协会主席，
CBA 联赛公司董事长
Former NBA player, Chairman of
China Basketball Association

张跃
Zhang Yue

远大科技集团董事局主席
Board Chairman of Broad Group

韩家寰
Han Jiahuan

大成食品集团董事局主席
Board Chairman of DaChan Food
Group

冯仑
Feng Lun

万通集团创始人，御峰资本董事长
Founder of Vantone Group,
Board Chairman of F&E

李原
Li Yuan

熊猫绿能集团董事局主席
Board Chairman of Panda Green
Energy Group

郑刚
Zheng Gang

北汽新能源股份有限公司总经理
General Manager of BAIC BJEV

卢思骋
Lo Sze Ping

世界自然基金会中国区总干事
Executive Director of World Wildlife
Fund China

张醒生
Zhang Xingsheng

大自然保护协会亚太区首席代表
Executive Director of The Nature
Conservancy, Asia & Pacific

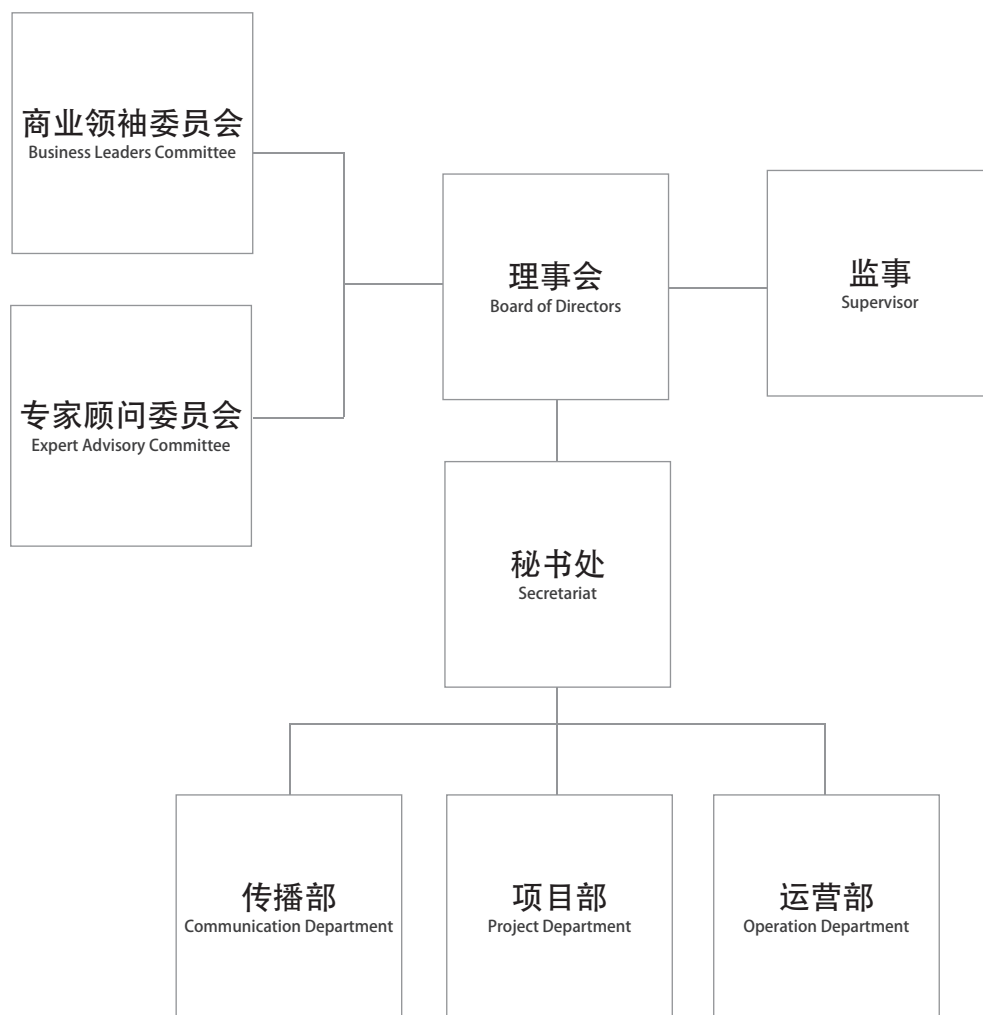
理事会 / Board of Directors

王石 /Wang Shi	万科集团董事局名誉主席 Honorable Chairman of Vanke Group
罗媛楠 /Lorena Luo	一个地球自然基金会秘书长 Secretary General of One Planet Foundation
冯楠 /Nan Feng	万科集团支持中心合伙人 Partner of Vanke Group Support Center
谢晓慧 /Xie Xiaohui	万科公益基金会副秘书长 Vice Secretary General of Vanke Foundation
牛瑞霞 /Sabrina Niu	上海颢盛资产管理有限公司副董事长 Vice Chairperson of Haosheng Assets Management
杨培丹 / Yang Peidan	大道应对气候变化促进中心主任 Executive Director of C Team

监事 / Supervisor

张敏 / Zhang Min	成都银都发展有限公司董事 Board Director of Chengdu Yindu Development Co., Ltd.
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组织架构 / Organization Structure



重点项目

Major Projects

中国企业气候行动

非营利性合作网络——中国企业气候行动 (CBCA)——于 2018 年 9 月全球气候行动峰会上正式启动，发起机构为万科公益基金会、北京市企业家基金会、大道应对气候变化促进中心等数十家机构和企业。

The non-profit cooperation network—China Business Climate Action (CBCA)—was officially launched at the Global Climate Action Summit in September 2018, by Vanke Foundation, SEE Foundation, and C Team together with partners and businesses.



CBCA 焦点行业赋能



【房地产建筑】

在线碳博会—建筑生命周期低碳技术交流会

疫情防控背景下，生产和生活需要不断适应新常态，对低碳可持续的关注也在增加。本研讨会邀请了行业领先的中外企业和新生代初创企业家分享企业在绿色建筑相关领域的理念突破、技术创新及实践经验。

[Real Estate & Construction]

Online Low Carbon Technology Expo: Building Life Cycle Low Carbon Technology Exchange

The backdrop of Covid has presented a new normal to get accustomed to in both industrial production and day-to-day life, further raising the awareness of low carbon and sustainability. Leading figures of their field—Chinese and foreign business owners and start-up entrepreneurs—were engaged in the exchange to shed light on their breakout ideas, technological innovations and experiences on the ground in green architecture.

【房地产建筑】 房地产业应对气候变化风险研讨会

10月27日，由北京市企业家环保基金会、万科公益基金会、C Team、中国房地产业协会、中国企业气候行动（CBCA）联合主办的房地产企业应对气候风险研讨会暨中国房地产行业绿色供应链行动四周年活动在北京举办，活动由中城联盟、全联房地产商会、中国建筑节能协会、公众环境研究中心提供支持。

为响应习近平主席在联合国大会上针对国家自主贡献、碳达峰和碳中和作出的承诺，C Team 联合多家机构共同发起 CBCA 领军者倡议，号召房地产行业低碳发展，并积极应对气候变化。

为帮助企业解读相关风险、机遇、政策趋势和资源工具，C Team 和 SEE 成立课题组启动《房地产企业应对气候变化行动指南》的开发编撰工作。

房地产业气候行动倡议

- 一. 支持《巴黎协定》，响应 2030 年前碳达峰，以及 2060 年前实现碳中和，为国家自主贡献出力；
- 二. 加强碳管理和碳信息披露，设定符合《巴黎协定》的温室气体减排目标；
- 三. 加强房地产开发的中长期气候变化风险评估，在选址、规划、设计、建设和运营等全生命周期中提升气候韧性；
- 四. 推动房地产行业上下游共同可持续发展，促进建材行业工艺革新，自觉实行绿色采购，构建房地产行业绿色供应链；
- 五. 大力推行绿色建筑，推动可再生能源建筑应用以及现有建筑节能改造；积极开发超低能耗建筑，加强绿色建筑运行管理；
- 六. 应对全球持续升温趋势，切实提升建筑能效，推行绿色高效制冷；
- 七. 在房地产开发和运营中结合“基于自然的解决方案”，以应对气候变化；
- 八. 践行建筑垃圾和生活垃圾减量与资源化利用，推动多方协力创建绿色生活。



[Real Estate & Construction] Symposium on the Real Estate Sector Addressing Climate Risks

On October 27, Symposium on the Real Estate Sector Addressing Climate Risks and the fourth anniversary of the Green Supply Chain Initiative of China's real estate industry was held in Beijing, jointly organized by SEE Foundation, Vanke Foundation, C Team, China Real Estate Association, and China Business Climate Action (CBCA), with the support of CURA, China Real Estate Chamber of Commerce, China Association of Building Energy Efficiency, and IPE.

In response to the commitments made by President Xi Jinping at the United Nations General Assembly with regard to NDC and carbon neutrality, C Team, in partnership with a host of organizations, launched the CBCA Champions Initiative, calling on the real estate industry to foster low-carbon development and take action to address climate change.

To help businesses decipher the risks, opportunities, policy trends, resources and instruments, C Team and SEE set up a task force to compile A Guide for Real Estate Corporations to Address Climate Change.

【纺织时尚】

《基于实践的纺织行业低成本应对气候变化技术指南》

纺织行业正处于向低碳或者零碳生产的转型过程中，2020-2030 至关重要。

本指南是 Apparel Impact Institute 和 C Team 共同研究最近十年来纺织行业的国际节能减排项目中约 3000 项节能减排实践，归纳总结在纺织企业中，采用最低成本投入，实现快速节能减排的技术途径，为广大纺织企业，尤其是资金预算有限的中小型企业，提供的一本技术参考资料。

本指南不追求“大而全”“高精尖”，仅从纺织企业生产实践出发，针对大多数纺织企业，尤其是中小型企业的能源、水资源消耗过程中的问题进行归纳总结，然后提出容易实施的解决方案。并且根据实践情况，对该项技术解决方案在实际实践过程中的效果进行统计，包括技术在企业中的真实实施率，投资规模、节能、节水、减少温室气体排放的平均效果。

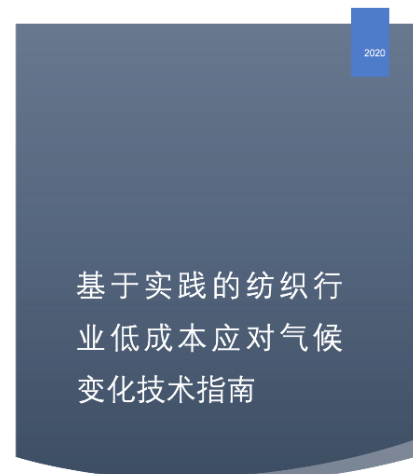
[Textile & Fashion]

A Practice-Based Guide to Address Climate Change with Cost-Effective Technologies in the Textile Industry

The textile industry is in the process of transitioning to low- or zero-carbon production and is entering a pivotal decade between 2020 and 2030.

The Guide is the result of research efforts by the Apparel Impact Institute and C Team on some 3,000 energy saving and emission reduction practices of international projects in the textile industry over the past decade. It is a technical reference for textile enterprises, especially small and medium-sized enterprises with limited capital budget, to enable fast energy conservation and emission reductions with the highest economic efficiency.

As opposed to pursuing an “all-encompassing, state-of-the-art” approach, the Guide concludes, from the production practices of textile enterprises, the issues encountered in energy and water consumption by most textile enterprises, especially small and medium-sized ones, and proposes highly actionable solutions. It then collates the practical outcome of the technological solution (corporate take-up rate of the technology, size of investment, energy saved, water saved, greenhouse gas emissions reduced).



APPAREL IMPACT INSTITUTE (AII) | 品牌环境影响力指数

C TEAM | 人类适应气候变化发展中心



【零售餐饮】

商超绿色制冷技术及设备安装与维修良好操作技能培训

[Retail & Catering]

Supermarket green refrigeration technology and equipment installation and maintenance skills training

【企业案例】

《2020 企业气候行动案例集》

[Enterprise Cases-study] Collection of Corporate Climate Action Cases (2020)



【C 位青年说】

[Young Climate Champions]



线上碳博会：低碳时尚快闪直播

参与企业：

日常碳排放因子数据库 / 碳足迹

一键碳中和 APP / 绿豆芽

环保出摊太阳能灯 / 诚信诺

rPET 低碳潮品 / 好润环保

Online Low-Carbon Technology Expo: Low-Carbon Livestream Pop-up

Business representatives in attendance:

Daily Carbon Emission Factor Database / Carbonstop

One Click Carbon Neutral APP / Lvdaya

Eco Solar Lamp / Power-Solution

rPET Low Carbon Fashion / P.E.T. Goodcycle

TEDxCTeam 倒计时

2020 年 10 月，COUNTDOWN 倒计时全球倡议正式启动，全球 400 多个城市、机构、企业和个人等多元主体加入，围绕解决气候危机的五个主题：能源、交通、材料、食物、自然，开展倒计时倡导活动。C Team 举办 TEDxCTeam，邀请五位专注于地球减排的达人，分享他们的思考与行动。

演讲人：

空气碳捕集 / 上海交通大学 李佳

绿色出行 / 蒋南青 绿普惠

人人可参与的人居环境营造 / 盖娅设计 泰山

塑料污染治理三十六计 / R 立方 张淼

小蚯蚓的大循环 / 海南星农夫 苏剑程

TEDxCTeam COUNTDOWN

In October 2020, the COUNTDOWN global initiative was officially launched. Over 400 cities, organizations, businesses and individuals around the world have joined in to raise awareness around the five topics in addressing the climate crisis: energy, transportation, materials, food, and nature. C Team hosted TEDxCTeam Countdown event, where five pioneers devoted to the cause were invited to share their thoughts and actions.

Speakers:

Carbon Capture / Li Jia, Shanghai Jiaotong University

Green Mobility / Jiang Nanqing, Green Inclusive

Accessible Creation of a Resident-Friendly Habitat / Taishan, Gaia Design

Measures to Control Plastics Pollution / Zhang Miao, R Cube

Big Circulation of Tiny Earthworms / Su Jiancheng, Star Farmer (Hainan)



【国际对话】

主办：后疫情时代清洁能源应该和发展研讨会

4月29日，大道应对气候变化促进中心（C Team）联合哥大全球中心举办后疫情气候变化应对策略研讨会，邀请来自哥伦比亚大学能源政策中心、世界资源研究所、彭博新能源财经、隆基股份和能源基金会的五位专家，探讨在面对疫情带来的重大冲击时，社会该如何促进清洁能源的发展和应用，实现高质量的经济复苏。研讨会也融入了后疫情时期的特殊角度，着眼于对清洁能源行业及气候议程的影响，为政府、企业以及关注环保与气候的社会群体提供针对性建议，力求减轻防控疫情和恢复经济的迫切需求下在环保领域带来的负面效应。

Symposium on Clean Energy and Development in the Post-Covid Era

On April 29, C Team, in collaboration with Columbia University Global Center, held a symposium on post-Covid climate action strategies, inviting five experts from Columbia University's SIPA Center on Global Energy Policy, the World Resources Institute, Bloomberg New Energy Finance, Longi and the Energy Foundation to discuss the potential role of society in promoting clean energy in light of the major challenges brought about by the pandemic to achieve quality economic recovery. The symposium also incorporated a special post-Covid perspective to offer tailored advice to governments, businesses, and communities concerned about environmental protection and climate, focusing on the impact on the clean energy industry and the climate agenda, seeking to mitigate the adverse effects on the environment front amid the dire need to contain the pandemic and resuscitate the economy.

主办：UNFCCC “奔向零碳” 国际对话：提升气候韧性

2020年11月，为加速实现《巴黎协定》的目标，由第25届和26届联合国气候变化大会（COP25 & COP26）的两位气候行动高级别倡导者 Nigel Topping 和 Gonzalo Muñoz 发起的奔向零碳（Race to Zero）全球倡议活动举办了一系列线上国际对话。



11月18日，C Team 联合 Global Resilience Partnership、Climate Resilience Network 共同举办奔向零碳对话：构建一个公平而具有韧性的未来。

UNFCCC “Race to Zero” Dialog: Building a Climate Resilient and Just Future for All.

In November 2020, Nigel Topping and Gonzalo Muñoz, two high-level champions for climate action at the 25th and the 26th United Nations Climate Change Conferences (COP25 & COP26), launched the Race to Zero Global Initiative, hosting a series of online international dialogs to accelerate progress towards the Paris Agreement goals.

On November 18, C Team, in partnership with the Global Resilience Partnership and Climate Resilience Network, hosted the Race to Zero Dialog: Building a Climate Resilient and Just Future for All.

协办：凤凰卫视“与世界对话——理性与合作”太平洋未来论坛气候平行论坛

为打破集体行动的困境，合力应对全球风险，“与世界对话·太平洋未来论坛2020”气候论坛12月17日在北京举行，聚焦气候与环境等联合国可持续发展目标的重要议题。



The Parallel Climate Forum of Phoenix TV Pacific Future Forum—"Dialog with the World: Reason and Cooperation"

In order to break the predicament of collective action and work together to deal with global risks, the "Dialogue with the World • Pacific Future Forum 2020" climate forum was held in Beijing on December 17, focusing on important issues of the United Nations sustainable development goals such as climate and environment.

加入中国企业气候行动倡议

Joining China Business Climate Action Initiative

中国企业气候行动 倡议书

China Business Climate Action Proposal

《巴黎协定》提出要控制全球升温幅度小于2°C的目标,为进一步落实《巴黎协定》框架下我国承诺的国家自主贡献目标,我们向工商企业、行业协会、环保公益组织、研究机构、媒体等社会各界发起倡议:

The Paris Agreement proposed to limit global warming to well below 2 °C. To further put into practice China's Nationally Determined Contribution under the framework of the Paris Agreement, we call on businesses, industry associations, environmental NGOs, research institutions, media, and other players to do the following:

我们呼吁行业协会、商会、联合会引领及带动全产业链、产业群的碳减排、绿色转型和绿色创新。
We call on industrial associations, chambers of commerce, and federations to lead and promote carbon emission reduction, green transformation and green innovation in the entire industry chain and industry cluster.

我们呼吁工商企业将应对气候变化纳入企业发展战略和企业社会责任,成为应对气候变化的企业典范,积极推广可持续发展的商业模式和气候问题的解决方案,带动市场、行业及政策走向。

We call on businesses to integrate climate change programs into their development strategies and corporate social responsibility, to be a model in addressing climate change, to actively promote sustainable business models and solutions to climate change, and lead the trend of markets, industries and policies.

我们倡议以下行动策略:
We propose the following actions:

1. 加强碳管理和碳信息披露,设定符合《巴黎协定》的温室气体减排目标;
Strengthen carbon management and carbon disclosure, and set greenhouse gas emission reduction targets in line with the Paris Agreement;
2. 推广可再生能源技术,提倡使用绿色电力等可再生新能源;
Promote renewable energy technologies, and advocate the utilization of renewable energies;
3. 推广绿色生产制造、低碳循环发展的经验和技術,减少废弃物排放;
Promote the experience and technology of green manufacturing, low carbon and circular development to reduce waste;

4. 推动行业上下游共同可持续发展,构建绿色供应链;
Promote sustainable development of the upstream and downstream industries for a green supply chain;
5. 提高建筑能效,降低能耗,提倡绿色生态规划设计;
Improve energy efficiency in construction, reduce energy consumption, and promote eco-friendly planning and design;
6. 提倡新能源汽车等绿色交通方式;
Advocate green transport, such as new energy vehicles;
7. 提倡服务端为公众创造绿色消费的选择;
Provide green consumption options for consumers;
8. 促进碳市场、碳交易和绿色金融。
Promote carbon markets, carbon trading and green finance.

绿水青山就是金山银山。让中国的工商企业界行动起来,践行应对气候变化的行动,动员和支持民间力量,让更多人参与到应对气候变化的行动中,群策群力共同参与气候治理,共筑绿色生态和美好未来。

Lucid waters and lush mountains are invaluable assets. The business sector should take actions to combat climate change, mobilize and support non-governmental forces and engage more people in such initiatives and climate governance to jointly build a green ecosystem and a brighter future.



绿色乡源

Green Rural

王石作为 2010 年联合国基金会启动的“全球清洁炉灶联盟”的理事，推动清洁炉灶项目在中国的实施。为回应更为突出的取暖需求和社区环境挑战，清洁炉灶升级为“绿色乡源”计划，关注乡村清洁能源和社区发展，使中国乡村更加绿色、宜居。

“绿色乡源”计划及前期的清洁炉灶项目得到了万科公益基金会的持续资助。2019 年，联合国开发计划署全球环境基金小额赠款计划支持“绿色乡源”计划开展了“陕北农村清洁能源示范及社区发展项目”。

为了项目实施过程中的专业性和本地化，C Team 联合技术支持方中关村创蓝清洁空气产业联盟和本土团队陕西妇源汇性别发展中心，以陕西省延安甘泉县石门镇南沟门村为试点，探索因地制宜的清洁取暖方案，支持社区自组织建设，开展环境友好型生计和环保教育活动，为中国其他类型社区开展清洁取暖和环境改善提供参考和借鉴。

As the board member of the Global Alliance for Clean Cookstoves launched by the United Nations Foundation in 2010, Wang Shi is committed to promoting the implementation of clean cookstove projects in China. To address the more pronounced heating needs and community environmental challenges, Clean Cookstove was upgraded into the “Green Rural” scheme, which focuses on rural clean energy and community development to make China’s villages greener and more resident-friendly.

The “Green Rural” scheme and the prior Clean Cookstove have gained ongoing sponsorship from the Vanke Foundation. In 2019, the UNDP Global Environmental Fund Small Grants Programme gave its backing to the Green Rural scheme in launching the “Northern Shaanxi Rural Clean Energy Demonstration and Community Development Project” .

To guarantee the level of expertise and adopt a locally-tailored approach in implementation, C Team, together with its technology provider Zhongguancun Bluetech Clean Air Industry Alliance and the field taskforce Shaanxi Gender Development Solutions, chose the Nangoumen village in Shimen town of Ganquan county, in the city of Yan’ an in Shaanxi province as a pilot site to explore locally-tailored clean heating solutions, support the establishment of community organizations, conduct eco-friendly livelihoods-boosting and environmental awareness raising activities, serving as a reference for other types of communities in China to develop clean heating and environmental improvements.

清洁取暖

Clean Heating



2019-2020 年取暖季，项目选择了 17 户试点户开展三种技术示范以及评估工作，分别使用光伏发电 + 水暖炕、太阳能光热 + 被动房改造和生物质颗粒燃料适配炉具三个技术路线。同时通过监测仪器对取暖效果、环境效益和温室气体减排效益等进行了监测与测算。

评估显示，三种技术均能够有效的实现采暖的需求，并带来实际的环境效益的改善。生物质颗粒料生产 + 生物质炉具取暖的技术路线总体成本低，适合于在现阶段经济能力有限的群体。光伏 + 电采暖的技术路线初始投入成本高，但更加环保舒适，适合于经济承受能力强，且对自身的生活水平有较高要求的农户。

评估也发现项目所示范的清洁取暖技术在带来空气质量改善的同时，还可以带来巨大的温室气体减排效果。本期项目中，生物质炉具技术路线与光伏 + 水暖炕技术路线将带来超过 2827.5kg 的污染物减排和 96.2 吨的温室气体减排；在数据统计周期 3 月中旬到 9 月中旬共清洁发电 8416 度，为居民带来了 3198 元的额外收入。这些清洁取暖技术路线替代了燃煤的使用，降低了一氧化碳给居民带来的健康和中毒风险，提高了的生活质量。

在项目过程中，项目组发现应用当地的秸秆、废弃树枝等生物质原料，加工制成生物质燃料具备可行性，因此将生物质成型燃料的试生产工作增加进了本次试点项目中，并成功进行了生物质颗粒料的试生产工作，验证了在本地生产生物质成型燃料的路线，也为解决当地秸秆污染问题探索出了一条可行的方案。2020 年秋冬，项目组建立了秸秆加工车间，以农户回收秸秆兑换颗粒料、领取生物质炉具的方式，将生物质燃料适配炉具的技术路线试点扩展到南沟门村更多家庭。凤凰卫视实地拍摄制作“华姐暖冬行——全媒体大开讲”5 期节目，推广本项目应用可再生能源清洁取暖的经验。

17 pilot households were selected in the heating season 2019-2020 for the demonstration and evaluation of three technologies, namely, photovoltaic power generation + water-heated bed structures, solar thermal + passive housing renovation, and biomass pellet fuel-adapted stoves. The taskforce also monitored and measured the heating effectiveness, environmental benefits and greenhouse gas emission reductions via monitoring instruments.

The assessment shows that all three technologies are effective in meeting the heating needs and engendering solid environmental benefits. The biomass pellet fuel-adapted stoves have low overall cost thus suitable for households with strained finances. The PV + electric heating option command high capital outlay, but is more eco-friendly and easy to use, suitable for those who can afford it and have higher requirements for standard of living.

The assessment also uncovered significant greenhouse gas emission reduction from clean heating technologies in conjunction with improved air quality. For the duration of the project, the biomass stove option and the PV + water-heated bed structure option will reduce over 2,827.5 kg of pollutants and 96.2 tons of greenhouse gases; a total of 8,416 kWh of clean electricity was generated from mid-March to mid-September, when data were collected, generating an additional income of CNY3,198 for the residents. The clean heating technology options have served as coal substitutes, reduced the health and poisoning risks posed to residents by carbon monoxide, and improved their quality of life.

In the course of the project, the taskforce found it feasible to process locally sourced biomass raw materials, such as straw and discarded branches, into biomass fuel. They went on to incorporate the trial production of shaped biomass fuel to the pilot, and succeeded in producing biomass pellets, pioneering a path of producing shaped biomass fuel locally while providing a solution to the local straw pollution problem. In the fall and winter season of 2020, the taskforce set up a straw processing workshop, rolling out the biomass cookstove pilot to more households in the village of Nangoumen, where villagers could trade in their straw waste for fuel pellets and free biomass stoves. Phoenix TV produced five episodes of “Miss Chinese Winter Trip – All-Media Talk” on site to promote the project’s practices in using renewable energy for clean heating.

社区发展

Community Development

项目组在南沟门村开展社区自组织培育以及社区环境教育宣讲和实践活动。项目组经过在南沟门村的调研、动员，并召开村民代表会议，由村民代表选举出南沟门村社区基金管委会成员 3 人，共同拟定了适合当地的“社区发展基金操作章程”。

2020 年，三位妇女骨干共管理 16 万元社区发展基金，向 3 户家庭共贷出 6 万元，发展大棚蔬菜和养殖业。其中，发展养殖业的村民共购置了十余头猪崽现已全部出栏，除归还贷款半年的本金及利息外，还获得收益 3 万余元。



The taskforce organized events to educate villagers on how to cultivate community organizations and raise environmental awareness in the community of Nangoumen village. The taskforce engaged in research and mobilization efforts in Nangoumen village, and convened a meeting with village representatives, where three women were elected members of the Nangoumen Village Community Fund Management Committee, and a tailored “Community Development Fund Operating Bylaw” was drafted in a group effort.

As of 2020, the three committee members managed a community development fund totaling CNY160,000, and a total of CNY60,000 has been disbursed to three households for growing greenhouse vegetables and animal farming. The village resident engaging in animal farming has successfully reared to maturity some ten piglets he purchased, which leaves him with more than 30,000 yuan in profit after repayment of principal and interests for six months.

气候传播

Climate Communication

地球日50年，“让地球更COOL”游戏上线

“Make the Earth Cooler” launched on 50th anniversary of Earth Day



2020 年是世界地球日整整 50 周年，本年度主题是气候行动（Climate Action）。C Team 上线 H5 小游戏，看看哪些酷事能让地球更 cool。

The year 2020 marked the 50th anniversary of World Earth Day, and theme of the year was Climate Action. C Team launched an H5 game for us to find out what cool stuff can help make our planet a cooler place.





减少快时尚消费



改造旧衣/旧物



光盘行动



坚持三个月不点
外卖



拼车出行



户外活动遵循“无痕山林”



植树(线上种树也算)



正反面利用纸张
(如双面打印)



拒绝食用野生动物



外出自带水杯



不使用吸管等一
次性餐具



拥抱蔬果少吃肉



支持过环保公益
组织



做过环保志愿者



自备手帕, 少用
纸巾



使用FSC认证纸
制品



拒绝购买野生动
物制品



使用节能灯



每晚关闭电脑、
电视不待机



回收可再生资源



交易/交换闲置
物品



选择环保/绿色
产品



拒绝过度包装的
产品



拒绝动物表演



垃圾分类



厨余堆肥



洗涤、洗漱节约
用水



安装节约型花洒



循环使用环保
物袋



看过环保相关书
籍/电影



使用碳计算器了
解碳排放



使用节水马桶



夏季空调不低于
26度



冰箱冷藏室设置
温度2-5度



优先购买能效为
1级的电器



住酒店自带洗漱
用品和拖鞋



优先购买本地产
品



参与过环保监督
举报



错峰用电



减少使用塑料制
品



不随便乱扔电池



通风好的房间用
电扇代替空调



随手关灯



使用天然洗涤剂



向身边的人解释
气候变化



支持巴黎协定



养花种草, 增加
绿植面积



经常使用公共交
通、共享单车代
替开车



使用电子登机牌



自愿碳中和(如
航班出行等)

生物多样性”主题环保产品设计比赛

“Biodiversity” Eco-Friendly Product Design Competition

2020 年世界环境日聚焦“生物多样性”，C Team 联合万科公益基金会、P.E.T. 好润环保、中国野生植物保护协会青少年工作委员会、中国纺织工业联合会社会责任办公室、极地学院等机构发起“生物多样性”主题环保产品设计比赛。

比赛选取了与气候变化高度相关的代表性动植物，雪豹、珊瑚、伊犁鼠兔、伯乐树、秋茄作为灵感缪斯。11 月，经评委投票，雪豹方巾设计获得优胜奖。设计师李雨晖曾经服务于环保组织，她设计的雪豹形象取之自然，神采奕奕。获奖设计由回收塑料瓶进行实物量产，产品所得销售收入扣除成本后余额将全部捐赠于公益组织用于物种保护工作。



The key word for 2020 World Environment Day is "biodiversity". C Team, together with Vanke Public Welfare Foundation, P.E.T. Haorun Environmental Protection, China Wild Plant Conservation Association's Youth Work Committee, Responsible Supply Chain Association of China National Textile and Apparel Council, the Polar Academy, among other organizations, launched the "Biodiversity"-themed eco-friendly product design competition.

The contest selected identifiable plants and animals in the context of climate change as muses: snow leopard, coral, Ili rat, bole tree and autumn eggplant. In November, the judges voted the snow leopard scarf design as the winner. Designer Yuhui Li used to serve in an environmental organization, her design of the snow leopard is very life-like. The winning design was mass-produced from recycled plastic bottles, and all proceeds from the sale of the product, after costs, will be donated to charitable organizations working on species conservation.

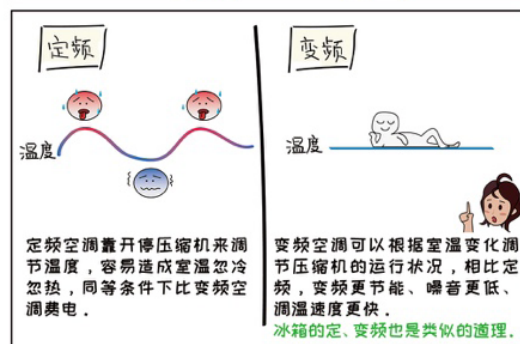


IP小灵探连环画

Detective C Cartoon Series

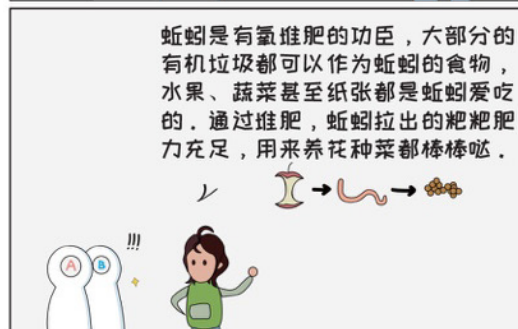
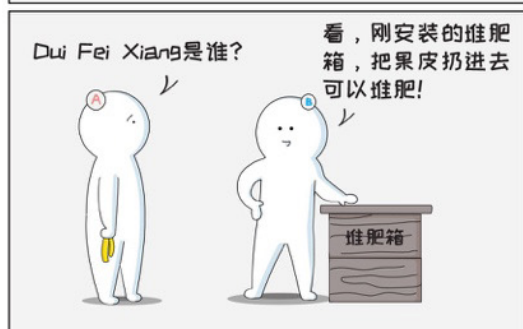
节能空调销售锦囊

Tips on Selling Energy-Saving Air-Con



蚯蚓哥黑暗料理

Bro Worm's Dark Cuisine



更多视频请见：
Check out more videos at:



— 致谢合作伙伴

Acknowledgements

中华环保联合会
All-China Environment Federation

北京新能源汽车股份有限公司
BAIC BJEV

中关村创蓝清洁空气产业联盟
Bluetech Clean Air Alliance

远大科技集团
Broad Group

比亚迪股份有限公司
BYD Company Ltd.

加州清洁能源基金
California Clean Energy Fund

碳信托
Carbon Trust

碳足迹
Carbonstop

全球环境信息研究中心
CDP

亚洲协会美中关系中心
Center on U.S.-China Relations, Asia Society

中国国际民间组织合作促进会
China Association for NGO Cooperation

中国循环经济协会
China Association of Circular Economy

中国农村能源行业协会
China Association of Rural Energy Industry

中国建筑节能协会
China Association of Building Energy Efficiency

中国国际经济交流中心
China Center for International Economic Exchanges

中国连锁经营协会
China Chain Store & Franchise Association

中国国际商会
China Chamber of International Commerce

中国民间气候变化行动网络
China Climate Action Network

中外对话
China Dialogue

中国节能协会
China Energy Conservation Association

中国环境资助者网络
China Environmental Grantmakers Alliance

中国工业经济联合会
China Federation of Industrial Economics

中国绿色碳汇基金会
China Green Carbon Foundation

中国低碳网
China Low Carbon Network

中国标准化研究院
China National Institute of Standardization

中国纺织工业联合会
China National Textile & Apparel Council

中国纺织信息中心
China Textile Information Center

青年应对气候变化行动网络
China Youth Climate Action Network

零废弃联盟
China Zero Waste Alliance

中国房地产行业绿色供应链行动
China's Real Estate Industry Green Supply Chain Action

中国城市房地产开发商策略联盟
Chinese Urban Real Estate Developers' Strategic Alliance

哥大全球中心 | 北京
Columbia Global Centers | Beijing

协鑫集团
GCL Group

德国可持续建筑委员会
German Sustainable Building Council

全球韧性伙伴关系
Global Resilience Partnership

中碳能投
GreenTech Group



广东五星太阳能（集团）有限公司
Guangdong Five Star Solar Energy Co., Ltd.

皇明太阳能集团
Himin Solar Energy

氢能产业协同创新平台
Hydrogen Energy Industry Collaborative Innovation Platform

公众环境研究中心
Institute of Public and Environmental Affairs (IPE)

清华大学气候变化与可持续发展研究院
Institute of Research on Climate Change & Sustainable Development, Tsinghua University

英特飞
Interface

晶澳太阳能科技股份有限公司
JA Solar Technology

京东集团
JD Group

兰州华能生态能源开发有限公司
Lanzhou Huaneng Eco-Energy Development Co., Ltd.

隆基绿能科技股份有限公司
LONGI Green Energy Technology Co., Ltd.

绿豆芽
Lvdoya

深圳智远教育科技有限公司
MASSLAB

再造个空间（深圳）材料设计有限公司
NANOxARCH Material Design

自然资源保护协会
Natural Resources Defense Council (NRDC)

新亚国际
NEWAsia

蔚来汽车
NIO

一个地球自然基金会
One Planet Foundation

保尔森基金会
Paulson Institute

北大青年 CEO 俱乐部
Peking University Youth CEO Club

凤凰卫视
Phoenix Television

瑞尔保护协会
Rare

甘肃省东乡县农村新能源发展中心
Rural New Energy Development Center of Dongxiang, Gansu

北京市企业家环保基金会
SEE Foundation

通标标准技术服务有限公司
SGS

陕西妇源汇性别发展中心
Shaanxi Gender Development Solution

上海环境能源交易所
Shanghai Environment & Energy Exchange

上海好润环保科技有限公司
Shanghai Goodcycle Environmental Technologies

深圳市银行业协会
Shenzhen Banking Association

深圳市红树林湿地保护基金会
Shenzhen Mangrove Wetlands Conservation Foundation

深圳市社会组织总会
Shenzhen Non-Governmental Organization Federation

商道纵横
Syntao Sustainability Solutions

纺织供应链绿色制造产业创新联盟
Textile Sustainable Manufacturing Coalition

气候现实项目
The Climate Reality Project

德国莱茵 TUV 大中华区
TUV Rheinland Greater China

TUV 南德意志大中华集团
TUV SUD Greater China

联合国开发计划署全球环境基金小额赠款计划
UNDP GEF SGP

联合国基金会
United Nations Foundation

万科公益基金会
Vanke Foundation

万科集团
Vanke Group

全球商业气候联盟
We Mean Business Coalition

中国天气网
Weather China

世界自然基金会
World Wildlife Fund

无锡尚德太阳能电力有限公司
Wuxi Suntech Power

延安大学
Yan'an University

延川我加你生态科技有限责任公司
Yanchuan I Plus You Eco Technology Co., Ltd.

湖州市长三角生态能源碳汇基金
Yangtze River Delta Ecological Energy Carbon Sink Fund

烟台尚美丽家新能源有限公司
Yantai Shangmeijia New Energy Co., Ltd.

原初科技(北京)有限公司
Yuanchu Technology Corp.

中碳绿林宝
Zhongtan Green Forest Treasure Low Carbon Technology

财务信息

Finance

	金额：元 Currency: CNY	2019	2020
资产 Assets	流动资产 Current Assets	912025.66	1038115.34
	固定资产 Fixed Assets	39390.22	22788.70
	合计 Total	951415.88	1060904.04
负债与净资产 Liabilities & Net Assets	流动负债 Current Liabilities	426476.08	198023.89
	长期负债 Long-Term Liabilities	0	0
	限定性净资产 Restricted Net Assets	15267.87	206860.15
	非限定性净资产 Non-Restricted Net Assets	509671.93	656020.00
	合计 Total	951415.88	1060904.04
收入 Income	捐赠收入 Donation Income	3742656.70	2254146.02
	其他收入 Other Income	11615.42	23652.01
	合计 Total	3754272.12	2277798.03
支出 Expenses	业务活动成本 Cost of Activities	3951185.68	1870928.54
	行政办公支出 Administration Expenses	77437.38	68246.13
	其他费用 Other Expenses	3205.69	683.02
	合计 Total	4031828.75	1939857.68



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