

Practice and exploration of digital innovation driving green and low-carbon development

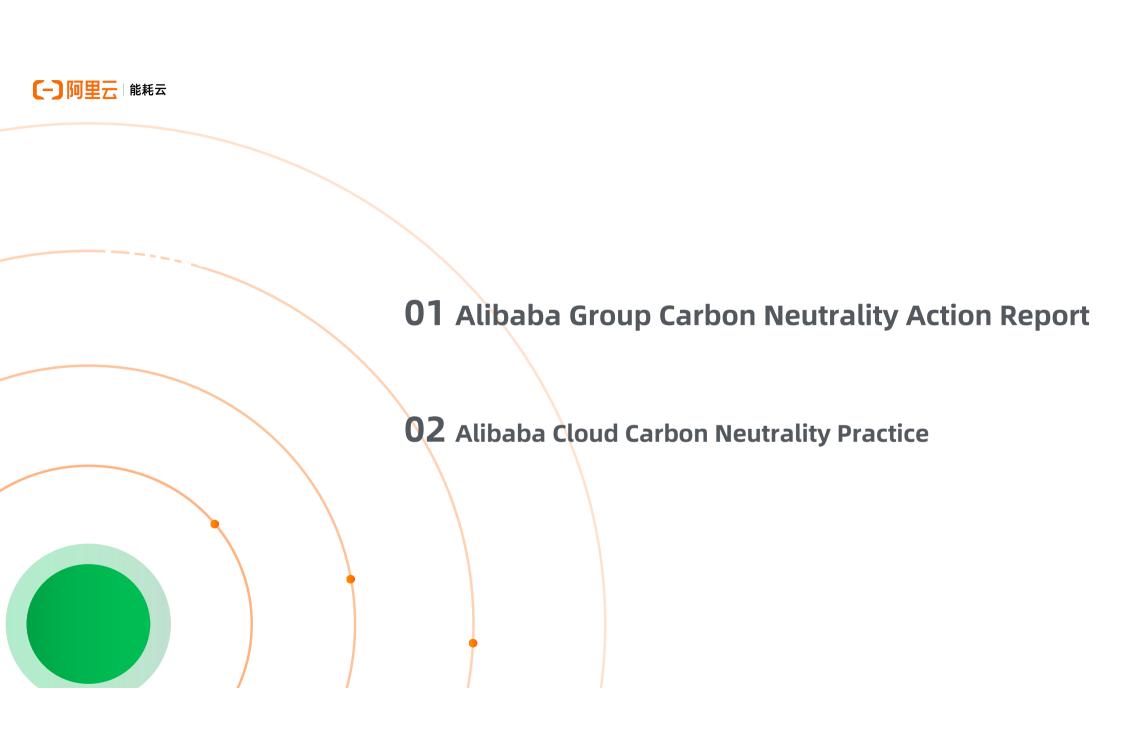
Fanke Zhou

Product Supervisor Of Alibaba Cloud Energy Cloud



Zhou Fanke Product Supervisor, Alibaba Cloud Energy Cloud

Master of software engineering and electrical engineering, the product supervisor of Alibaba Cloud Energy Cloud. He has solid interdisciplinary background and broad industry vision, now is focusing on the research and development of digital products in the fields of "carbon neutralization" and "energy & power". He has been deeply engaged in the field of "energy and power" for nearly 10 years and led several scientific projects in "smart grid", and published more than 10 papers and patents at the same time. His team is dedicated into "Dual Carbon" strategy of China, and the digital products "carbon eye" and "energy expert" based on AI and big data developed by his team has built a cutting-edge solution of "carbon neutralization" for government, enterprises and communities.





Alibaba Group Carbon Neutrality Action Report

The report was released on December 17, 2021. In addition to Carbon Emission Scope 1 to 3, Alibaba pioneered the concept of Scope 3+. We will drive green and low-carbon development by digital innovation.

Decarbonizing Alibaba (Scopes 1 and 2):

By 2030, Alibaba will achieve carbon neutrality in its own operations.

Greening the value chains (Scope 3):

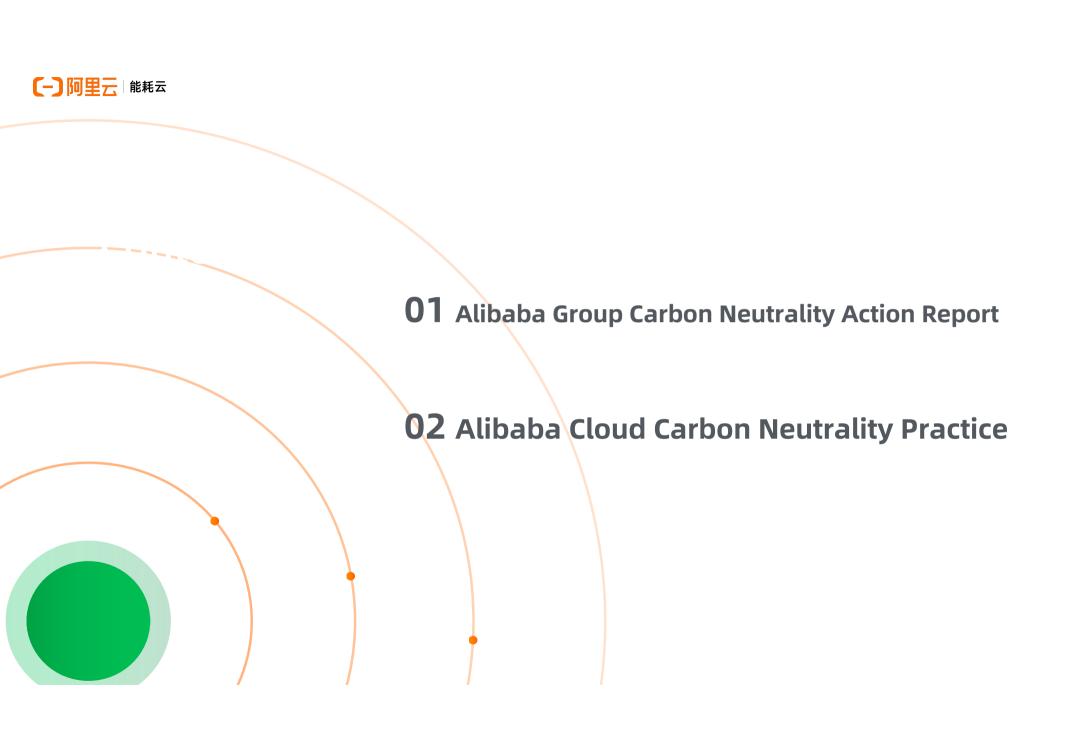
By 2030, Alibaba will collaborate with our upstream and downstream value chain partners to reduce emission intensity by 50% compare to the base year of 2020. Alibaba Cloud provides the key digital infrastructure and will achieve Scope 3 carbon neutrality during the same period.

Enabling low-carbon circular digital ecosystem (Scope 3+):

Beyond our own operations and direct value chains, we pledge to leverage our digital platforms to encourage even broader participation of stakeholders affected by our efforts . By 2035, we will facilitate 1.5 gigatons of GHG emission reduction over 15 years in Alibaba digital ecosystem.









Alibaba Smart Cloud for "Dual-Carbon Tactic" - 3 circles

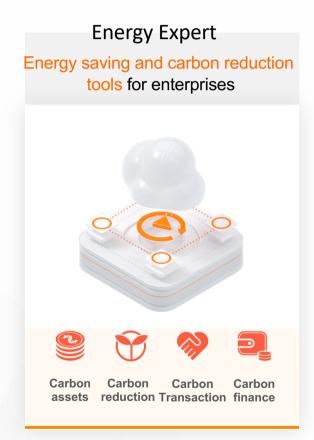
* Dual-Carbon Tactic: China would reach its carbon emissions peak before 2030 and become "carbon neutral" before 2060

From technology innovation, Alibaba derived 3 circles according to the influencing power.

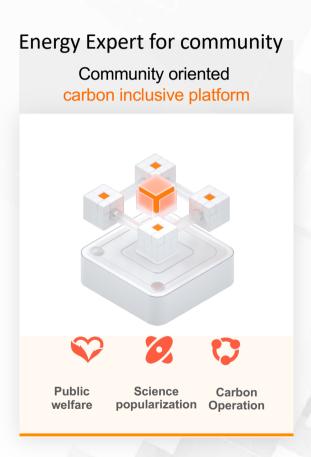




Alibaba Cloud Carbon Neutrality Product Planning

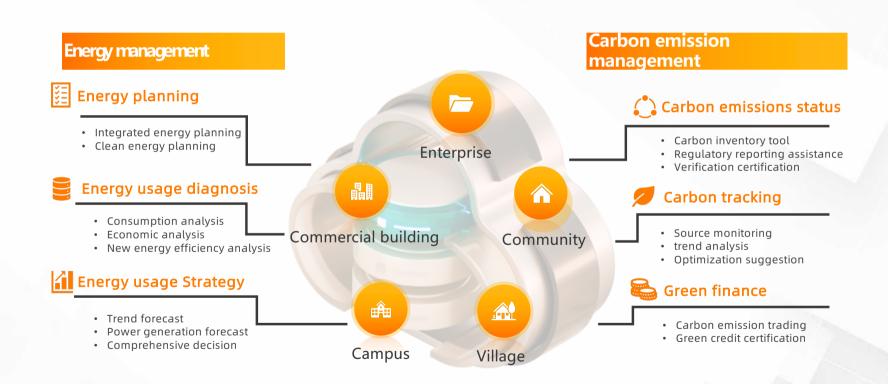








Energy Expert:Energy conservation and carbon emission reduction full link management for Enterprise





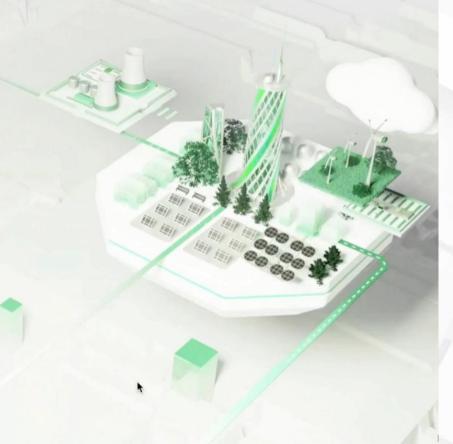


科技创新开启企业节能低碳之路

清晰直观的碳账户、科学专业的用能分析、智能有效的节能建议、经济高效的方案推荐,企业实现"碳中和"的贴身管家。

进入主页

我要咨询



法律声明及隐私权政策 廉正举报 联系我们

© 2009-2021 Aliyun.com 版权所有 增值电信业务经营许可证: 浙82-20080101 域名注册服务机构许可: 浙通网安【2019】94号 信部电函【2005】374号 浙公网安备 33010602009975号 浙82-20080101-4。



Practice of Energy Expert



Energy saving: 2 million kWh/day

Carbon reduction: 1400 tCO 2 e/day

企业数量

1476 _₹

全年总发电量 **4.73亿**度

2.06万 ↑

全年总碳排量 34.33万 tco2e

场地数量 1551↑

全年用电总量 9.95亿度

光伏装机容量 1300 MWp



全年总碳减排量 32.54万 tco₂e



Energy Expert: Support product carbon footprint certification for HolyCore light-truck plates

The auto industry is now undergoing the carbon neutral revolution. Countries at home and abroad have issued action plans or legislation. This has profound implications for supply chains.



Domestic:

China Automotive Center led the release of China's automotive low-carbon action plan research report.



Abroad:

On December 10, 2020, the Eu released the Draft Of the New Battery Law, turning it from a directive into a regulation, take effect on January 1, 2022.

Auto chain carbon footprint disclosure

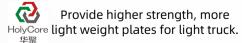


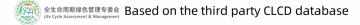


- Product competitiveness
- Industry influence



 \cdot Online modeling \cdot Online accounting \cdot Online certification





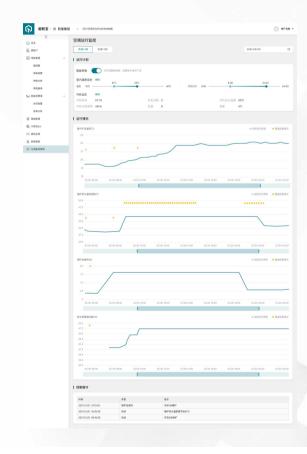


Energy Expert: Application of energy consumption optimization in Alibaba Park

12% **30**%

Average daily Maximum daily saving saving

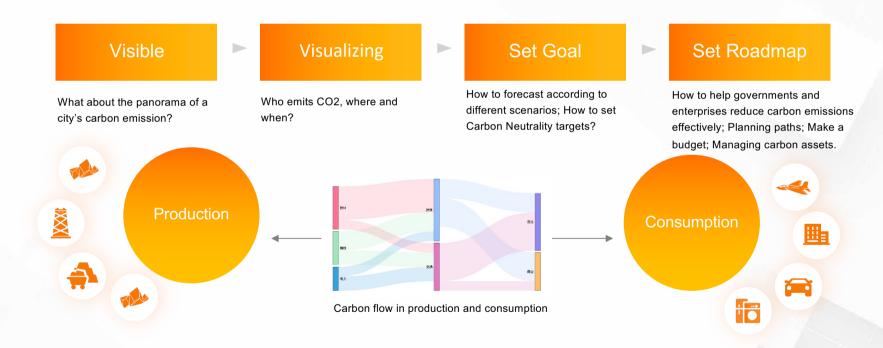




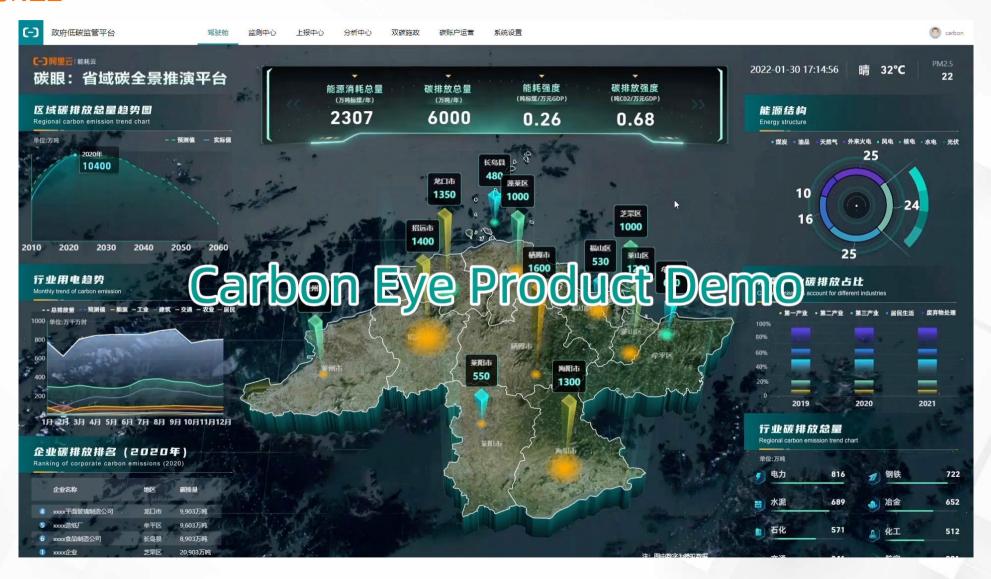


Carbon Eye: Support Governance of Carbon Neutrality Strategy

Governance requires digital analysis and decision-making



(一) 阿里云 | 能耗云





Practice of Carbon Eye

Shanxi Province

《山西省重点领域行业碳排放控制及达峰研究项目》順利通过评审验

原制 模拟中心 生态环境部环境规划院 2021-12-16 17:04



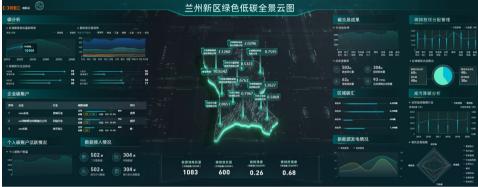
2021年12月15日,我院承担的"山西省重点领域、重点行业模排放控制及这峰研究" 项目顺利通过评审和验收。来自生态环境部、山西省生态环境厅、山西省统计局、清华 大学、北京原范大学、太原理工大学等单位的领导和专家以及项目技术人员共20余人参 407全%

会设出山图金企品环境下等统计学统计主线、规范图音节等、项目负责人指示师 及为项目自然保险等下分别。接触原则对自然同时一位需要信户线电阻设施 研究成果。项目对山图省市,钢铁、R4、或能开展决选、化工、有色、水池七大行 设分是和可能设施设施行行列。钢铁、R4、或能开展决选、化工、有色、水池七大行 设分是和可能设施设计符列,到等一层广场设施设施工程,化工、有色、水池七大行 专行工程。同量之公司或规则相对定,但可以调查调谐技术与监控等 转型重点任务与特点。同量之公司或规则相对定由了山西省调谐技术与监控等 核则发发展。到国于外发展。人工程度。是常能是形式,分析评估问题即频繁 有算均跟踪理事系统,实可了或此上线、规划或指案。全展系,分析评估问题即频繁 等功能。这是规范中国生态合并发动,以指一个自然定在被国面调明短用。

与会专家充分肯定了项目成果,一致认为项目内容丰富、研究方法科学、技术路线 润衡、任务措施可行,系统具有包新性、圆满完成了项目规定目标和任务,修修为山西 宿推动娱浪排工作提供指导,特别是"碳大脑"系统,可作为山西省缓排放跟踪和分析预 警的管理器码。



New district in Lanzhou



Yuhang district in Hangzhou



Fushun district in Shenyang





Energy Expert for Community: carbon inclusive platform



Electricity Consumption

Household Equipment Activity

Coupon Redemption



Energy saving in dormitory





Practice of Energy Expert for community

China Academy of Art

低碳国美|低碳校园创新实践 浙江文创设计制造业协同创新中心 2021-12-01 17:00



阿里云能耗云团队联合中国美术学院文创中心,共同发布"低碳 国美"小程序,倡导"学院即社区、低碳即时尚",进一步推动零碳校园观念普 及, 以及碳普惠体系在大学生群体中落地。

从产品体系来看, 低碳国美小程序由寝室用电分析、碳宝地图, 低碳活动、低 **碳权益**四大板块组成,核心是以个人低碳行为数据为计算基础,构建国美碳积 分体系。一方面助力校园碳中和转型;另一方面根据学生绿色行为的贡献程 度,构建低碳校园平台动态权益体系,从而传播碳中和概念。





The first near-zero carbon community in Shenzhen City









