



















UK-China ORE Centre for Offshore Renewable Energy

中英海洋能联合研究计划

Learning through engagement

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The University of Exeter Chair of UK&CHN | CORE



Plymouth, 21st January 2021



















UK&CHN | CORE website





Publications ->



Building a better future through a shared knowledge platform

A combined UK and China government initiative, the ORE International Impact Platform is a space where industry leaders and educational institutions' shared knowledge is brought together from across the world.























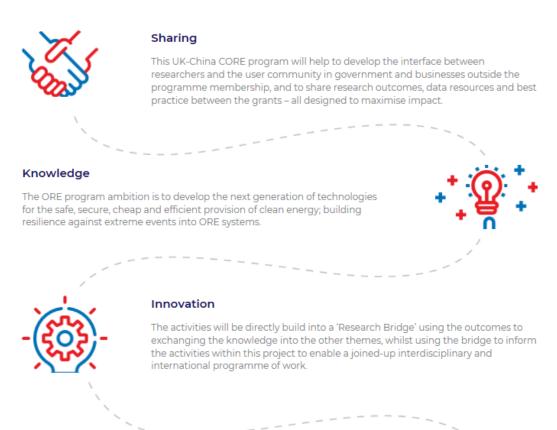








Objectives of UK – China ORE projects



Impact

To develop a knowledge exchange strategy which incorporates a plan of coordinated activities and details how the research teams will work together to engage stakeholders and maximise impact through the establishment of the UK-China CORE programme











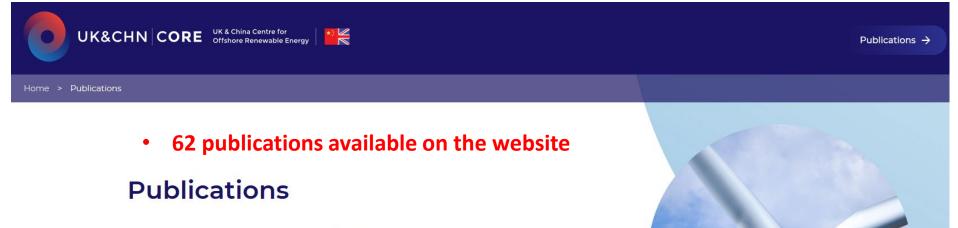












Current and future research fundamentally relies on access to the findings and ideas that come out of publicly-funded research.

As a result the UK-CHINA CORE program fully support the concept of universal access so that everyone can benefit from research outcomes and publications are in compliance with funder open access requirements.



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Future opportunities









UK-CHINA National Ocean Energy Technology Centre (OceanTeC)

英中国家海洋能源技术中心 (OceanTeC)

Aims to integrate <u>leading UK-CHINA research</u> <u>excellence</u> to advance the strategic development of Ocean Technology

旨在整合领先的英中研究卓越成果,以推进海洋技术的战略发展







UK-CHINA National Ocean Energy Technology Centre (OceanTeC)

Objectives:

- > As well as maintaining the strength of UK-CHINA research, to work in collaborative partnership to <u>support industry developments</u> in ocean technologies.
- ▶ 在保持英中研究实力的同时,要开展合作伙伴关系以支持海洋技术行业的发展。
- > To enable high-profile, best-with-best international collaborations focused on excellent research with impact.
- ▶ 为了实现高关注度,最好的国际合作,以具有影响力的优秀研究为重点







在保持英中研究实力的同时,要开展合作伙伴关系以支持海洋技术行业的发展。

UK-CHINA National Ocean Energy Technology Centre (OceanTeC)

Objectives:

- > To enable high-quality research ambitions to <u>Delivery Plan outcomes and ambitions.</u>
- 为了实现高质量的研究抱负,以实现交付计划的成果和抱负
- > To further the UK & Chinese ORE strategic needs in <u>international science</u> and <u>innovation partnerships.</u>
- > 在国际科学与创新合作伙伴关系中进一步推动英中两国的ORE战略需求







Ocean Technologies

海洋技术









Future Applications 未来的应用

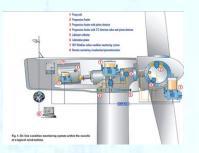
Application of Digital Twins





Robotics and Autonomous systems

Advanced predictive maintenance





Maximising output: next gen energy storage and transmission







Collaboration

Research Centre

UK-CHINA National Ocean Energy Technology Centre (OceanTeC)





UK

UK - CHINA

Industry Centre



UK - CHINA













 Exchange of researchers between UK and Chinese universities 中英 大学之间的研究人员交流

UK-China ORE Centre for Offshore Renewable Energy 中英国家海洋能 源技术中心 (OceanTeC) Growth Accelerator 促进增长

TUS-ORE Catapult

启迪中英海洋科技研究R

- SME engagement 中小企业参与
- China OW market needs assessment 中国OW市场需求评估
- Mentoring and technical support 指导和技术支持
- China market entry assistance 协助进入中国市场

Collaborative R&D (higher TRL) 协同研发(高TRL 研发)

- UK-China applied R&D 英中应用研发
- Development UK China applied research hub 发展中英应用研究中心

- Technology investment fund 技术投资基金
- Government grant/co-investment fund 政府补助/联合投资基金
- Technology commercialisation potential due diligent 技术商业化潜力尽职调查

SME Technology Investment fund

中**小企**业技术 投资基金 UK technology Demonstration – Offshore wind farm

英国技术示范-海

- Enable the 300MW offshore demonstrator wind farm 后用300MW海上示范风电场
- Safeguard UKs 10-15% interest 维护英国 10-15 %权益

Thank you for listening



