**附件1**

资助领域

Proposals must consider issues at the city scale, **not** individual household or industries. Proposals should include at least **two** of the following seven research challenge areas (those marked i to vii) and applicants must be able to justify why their programme of work is of importance to UK and China:

**a) 智慧城市能源系统的智能和弹性控制 (Intelligent and resilient control for smart urban energy systems)**

i) 交互式、灵活电力变换和控制系统 (Interconversion, flexible power conversion and control systems)

ii) 海量能源数据的管理和处理方法 (Methods of handling and processing high volumes of energy data)

iii) 能源系统集成、与传统系统的集成以及局部分散系统的影响 (Integration of energy systems, integration with legacy systems, and impact of locally decentralised systems)

iv) 智能系统保护及故障恢复 (Smart system protection and fault restoration)

**b) 电网级储能 (Grid scale storage)**

v) 多向量分布式储能(Multivector distributed storage)

vi) 储能系统性能，例如安全性、效率、寿命、可靠性、容错性(Storage system performance, e.g. safety, efficiency, lifetime, reliability, fault tolerance)

vii) 储能“云”硬件（非软件）(Energy storage “cloud” hardware (not software))

The following subject areas may only be included as a minor part of a broader package of research: heating and cooling, transportation, materials for energy efficiency and storage and digital technology for energy efficiency. This is due to these topics being funded extensively by a number of other recent calls at EPSRC.

The following subject areas will not be covered by this call: circular economy, robotics, cloud software for energy storage, markets and policy. This is due to these topics being funded extensively by a number of other recent calls at EPSRC or being out of the Energy theme’s scope.

It is worth noting that EPSRC has a number of existing major research investments relevant to this research area. (For more information on the existing investment, please consult EPSRC’s website.) This activity aims to build on these investments and advance UK-Chinese collaboration in this important research area. Proposals submitted to the call following the workshop should aim to collaborate with existing projects where appropriate, but should not duplicate research already underway through these or other projects.