

- ○ RMetS <sup>[1]</sup>

**Date:** Wednesday 24 April 2024

**Time:** 15:00 - 16:30

**Location:**

Virtual - Hosted on Zoom

**Email:**

[meetings@rmets.org](mailto:meetings@rmets.org) <sup>[2]</sup>

Cities play a central role in climate change. They are home to 56% of the world's population experiencing the effects of climate change and are responsible for 75% of global CO<sub>2</sub> emissions. Despite projections of a 50% global energy demand increase by 2050, it is important that cities meet their energy demands whilst generating less CO<sub>2</sub>, reducing their burden on global warming. As well as cities being a cause of climate change, they are often particularly vulnerable to it because of their siting. For example, cities tend to be near coasts and rivers making them exposed to sea-level rise and flooding. Additionally, cities modify their climate, exacerbating temperature and precipitation extremes, due to having reduced vegetation and a large capacity to store heat. However, careful urban planning and mitigation strategies can be used to

make cities more climate resilient. I will discuss the issues surrounding cities and climate change, pose possible solutions, and give examples of how weather and climate models can contribute towards developing healthy, sustainable cities.

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**Source URL:**<https://accsys.rmets.org/events/masterclass-cities-and-climate-change#comment-0>

**Links**

[1] <https://accsys.rmets.org/node/12> [2] <mailto:meetings@rmets.org>