

words, one of the signal inventions in history' and 'a most important invention for Singapore,' it does have its costs with exacerbating the heat island and global warming," says Chow. "Two approaches that can work to reduce air conditioning use – especially where it is most needed in tropical cities – involve using it more efficiently.

"Firstly, [district-level cooling](#) is increasingly being utilised in Singapore in lieu of inefficient individual air conditioning condensers. As uptake of this option increases, the cost to operate these – as well as to the environment – will decrease. The second approach is to go back to applying historical tropical urban design and architectural principles in low-latitude cities dependent on air conditioning. There should be particular emphasis on using natural ventilation, [artificial shading](#) and vegetation cover to ensure that air conditioning use is significantly lowered."

Urban planning and design innovations – The Singapore Model

Singapore has a few other innovations and radical designs that cities around the world could adopt to tackle extreme heat and avoid urban heat islands.

Efficient use of Air Conditioning and use of Artificial Shading

Singapore

Efficient use of air conditioning to reduce costs and global warming.

Energy Efficiency

Sustainable cooling

Strategies to cope w

Mitigating the effec

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



13 CLIMATE
ACTION

