

# Manchester Civic Quarter Heat Network

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ENERGi

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CITY COUNCIL

## The Tower of Light

As part of the CHP Energy Centre, the Tower of Light will comprise dispersion flues encased within an architectural wrap. This element has been designed by award winning architects Tonkin Liu and will bring a sculptural quality which enhances Manchester's skyline.

### What will the Tower of Light look like?

The Tower of Light is symbolic of Manchester's aspiration for low carbon energy generation. It is an ultra-lightweight, single surface, Shell Lace Structure; an innovative and pioneering technique developed over eight-years of design led research by Tonkin-Liu and Arup. It is made from tailored 3-6mm laser cut sheets of steel that are then curved and welded together to create a stiff strong surface. The steel is primed and coated externally with white polyurethane paint, providing the tower a low maintenance, highly durable finish. Other Shell Lace Structures designed by Tonkin Liu include the Rain Bow Gate in Burnley and Solar Gate in Hull.

Minimal energy is used to light the tower. During the day, highly-reflective steel reflectors in gold finish move in a wave like motion in the wind to reflect sunlight into the tower's chambers, to animate the structure with ever-changing golden moving light. During the night, LED lights directed at the polished reflectors create moving light.

