



## THE OASIS OF THE FUTURE

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**Categories:** [Alexander Rieck](#), [Chris Bosse](#), [LAVA](#), [Project](#), [Technology and fabrication](#), [Tobias Wallisser](#), [Verb Next](#)

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LAVA's design proposal focused on the delivery of three key issues:

Performance: to demonstrate the use and benefits of sustainable technology in a modern, dynamic, iconic architectural environment; activation: to activate or operate the sustainable technology in accordance with the functional needs of this environment, 24 hours a day, and 365 days of the year; and interaction: to encourage and stimulate a social dynamic where the life, values, ideals, and vision of the population of Masdar evolve.



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The following environmental and engineering design concepts will minimize energy consumptions:

- Radiant surfaces
- Air movement that supplements natural wind patterns
- Evaporating cooling mist
- Thermal mass and PCM
- Slab cooling and Luna Panels
- Shading of external facades surrounding the Plaza



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Some other key innovations include:

- Building façade angles that can be altered to offset or optimize solar glare.
- Materials on wall surfaces respond to changing temperatures and contain minimal embedded energy.
- Water features can be stored underground during the day and at night trickle or flow strongly, triggered by passersby.
- Interactive light poles, inspired by the oasis fire, transform the plaza into a 3-dimensional interactive media installation.
- Interactive heat sensitive technology activates lightning in response to pedestrian traffic and mobile phone usage.
- Roof gardens integrate food production, energy generation, water efficiency and the reuse of organic food waste.

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