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A holistic approach to assess the exploitation of renewable energy sources for design interventions in the early design phases

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**Highlights**

- A holistic approach for supporting the urban surfaces use optimization is proposed.
- Design and technological interventions at district and building level are evaluated.
- High-albedo materials can counterbalance solar losses due to urban complex shadows.
- The combination of solar analyses with CFD simulations plays a key role in designing DSFs and BIPV.
- Cool materials and green façade could reduce about 1°C the outdoor thermal stress.

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