USE LOCAL KNOWLEDGE

Use local knowledge solutions.

In this subtropical climate, the following strategies can be applied:

- **Collect rainwater** for irrigation and greywater use.
- **Ventilation** using natural airflow.
- **Shading** with built-in elements.
- **Groundwater** for cooling.
- **Radiant cooling** in the ceiling.
- **Deep window niches**.
- **Natural daylight**.

**LOW TECH SOLUTIONS**

- **Collect rainwater** for irrigation and greywater use.
- **Ventilation** using natural airflow.
- **Shading** with built-in elements.
- **Groundwater** for cooling.
- **Radiant cooling** in the ceiling.
- **Deep window niches**.
- **Natural daylight**.

**HOW TO LIGHT AND COOL A BUILDING IN A SUBTROPIC CLIMATE**

**Collect rainwater**

- Collect rainwater for irrigation and greywater use.
- Water is a valuable resource and should be conserved.

**Shading**

- **Natural shading** using trees and awnings.
- **Operable windows** afford a high level of natural ventilation for residents.

**Groundwater**

- **Groundwater** can be used for cooling.
- Water is stored underground and can be used for cooling purposes.

**Radiant cooling**

- **Radiant cooling** in the ceiling can be used to cool the building.
- The system works by circulating water through the ceiling panels.

**Natural daylight**

- **Natural daylight** is crucial for creating a stimulating work environment.
- All workspaces should have access to natural daylight.

**Air as insulation**

- **Air as insulation** is used to control the temperature of the building.
- The system works by circulating air through the walls.

**Air as ventilation**

- **Air as ventilation** is used to control the air circulation in the building.
- The system works by circulating air through the vents.

**Heat from the factory**

- Heat from the factory can be used to warm the building in the winter.
- The system works by circulating the warm air through the building.

**Natural daylight**

- **Natural daylight** is used to light up the facades.
- The system works by allowing natural light to enter the building.

**Integrating shading**

- **Integrating shading** is used to control the amount of light entering the building.
- The system works by integrating shading elements with the building's design.

**Water for cooling**

- **Water for cooling** can be used to cool the building.
- The system works by circulating water through the building's cooling system.

**Air as cooling**

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**Groundwater**

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**Ventilation**

- **Ventilation** using natural airflow is crucial for creating a stimulating work environment.
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