

|                         |                    | Heat sources  |  |  |                         |
|-------------------------|--------------------|---|--|--|-------------------------|
| Season                  | Main strategies    | Conduction  | Ventilation  | Radiation                                      | Evaporation             |
| WINTER<br>(cold season) | Increase Heat Gain | Improve heat storage  | Improve indirect gains from warm soil or sun                               | Improve solar gains                            | -                       |
|                         | Reduce Heat Loss   | Reduce heat transfer from inside to outside through building envelope   | Reduce air exchange and infiltration                                       | -  | -                       |
| SUMMER<br>(hot season)  | Reduce Heat Gain   | Reduce heat transfer from outside to inside through building envelope   | Reduce hot air exchange and infiltration come from external environment    | Limit as possible solar gains (heating effect) | -                       |
|                         | Increase Heat Loss | Increase heat transfer from inside to outside through building envelope | Improve fresh air exchange and infiltration come from external environment | Increase radiant losses (cooling effect)       | Use evaporative cooling |

|         |       |            |     |            |
|---------|-------|------------|-----|------------|
| Sources | -     | Atmosphere | Sun |            |
| Sinks   | Earth | Atmosphere | Sky | Atmosphere |