## CLIMATE AND BUILDING DESIGN STRATEGIES

## Building Heights: Enclosure and Orientation

1) Enclosure - Minimum ratio of $1: 2$ of building heights to street widths need to be achieved specially for major arteliar and sub-arteliar roads to achieve enclosure.


Renewable Energy System

1) Calculating Area for Solar Energy Production

$1 \mathrm{~m}^{2}$ SOLAR Energy consumption per capita per day is $=1.5 \mathrm{kWh}$
Energy produced by $1 \mathrm{~m} \times 2 \mathrm{~m} 360 \mathrm{~W}$ solar $=360 \times 8$ panel in a day $=2880 \mathrm{~Wh}$
$=2.8 \mathrm{kWh}$

Area required for one person energy $=\left(1.5 \mathrm{kWh} \times 2 \mathrm{~m}^{2}\right.$ production is $\quad \begin{array}{r}(2.8 \mathrm{kWh}) \\ =1.07 \sim 1 \mathrm{~m}^{2}\end{array}$


Arteliar Roads (fis m)

(2) istributor Road (27 min
 setback from the main roads and access should be given through streets at the backside of the built form

Last Mile Connectivity and Infrastructure Development


Road Sections With Integrated Greens


Feeder Bus Stop Rickshaw Stand Cycle Rental and
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Open Spaces, Urban Agriculture and Ecology

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Sizes and Hierarchy of open spaces
The basic approximate areas of open space according to their hierarchy are: Housing A
$5000 \mathrm{~m}^{2}$

| Neighbourhood Park |  |
| :---: | :---: | $10000 \mathrm{~m}^{2}$

50000 m

- Any building line to be atleast
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