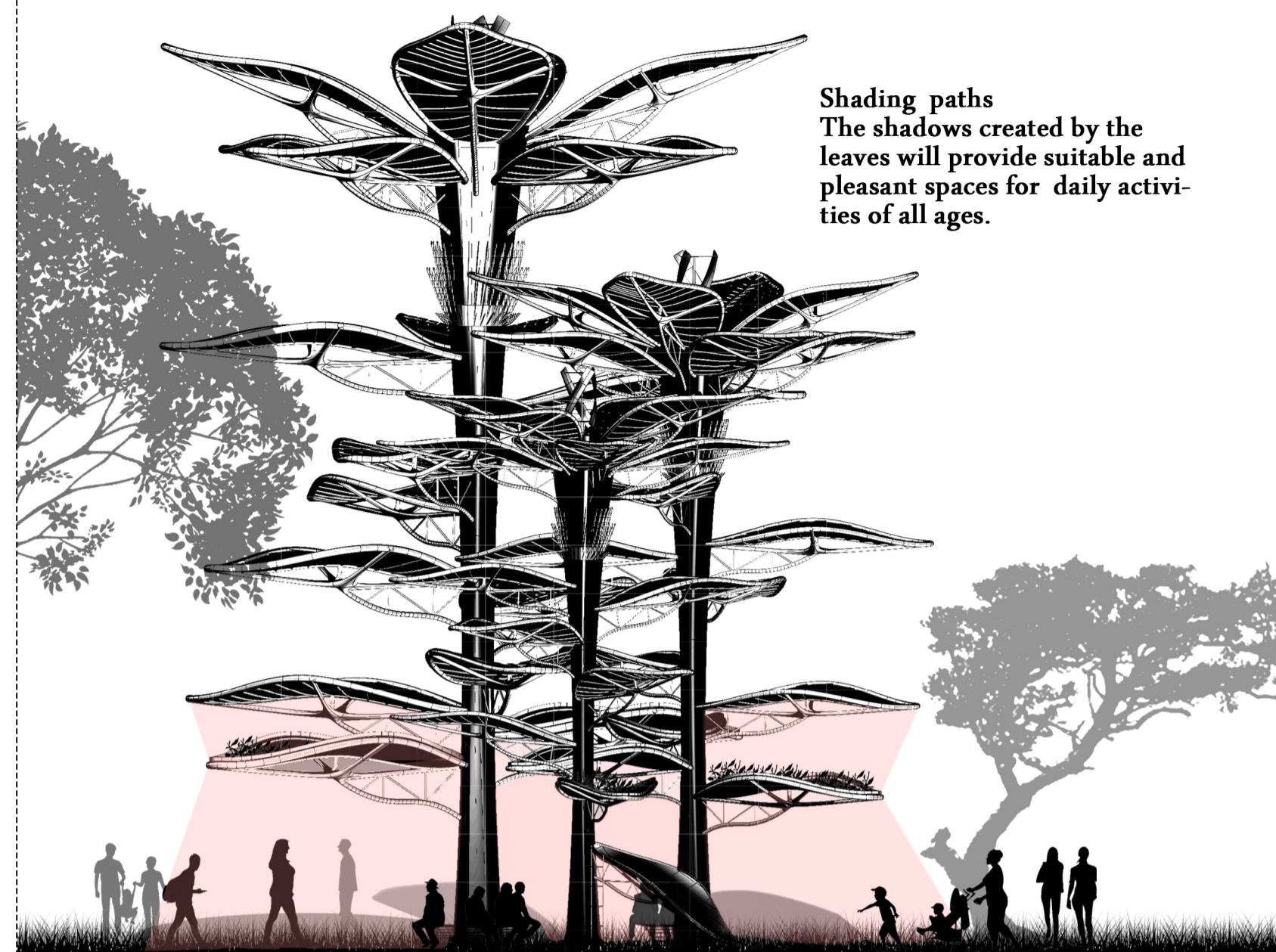
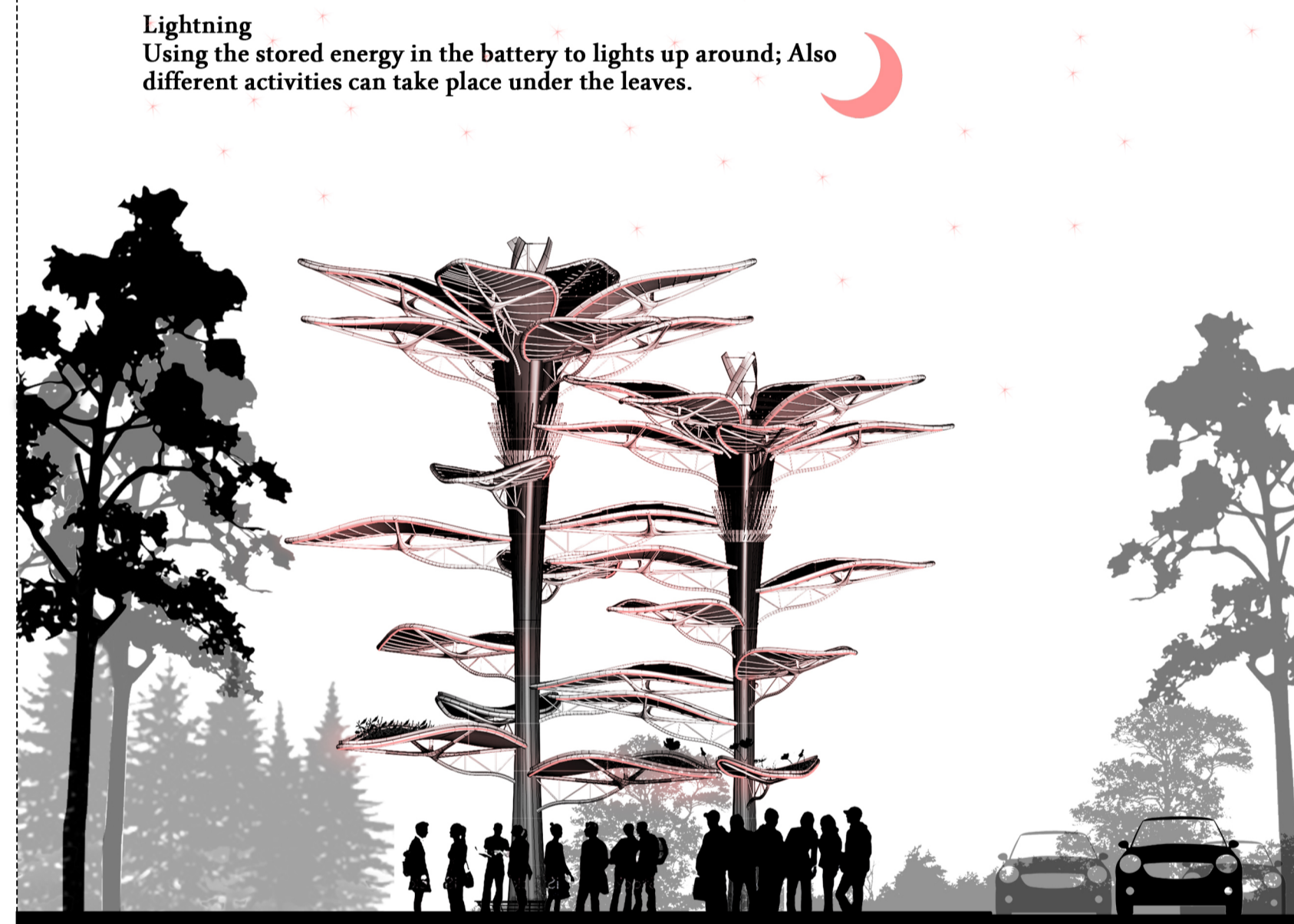


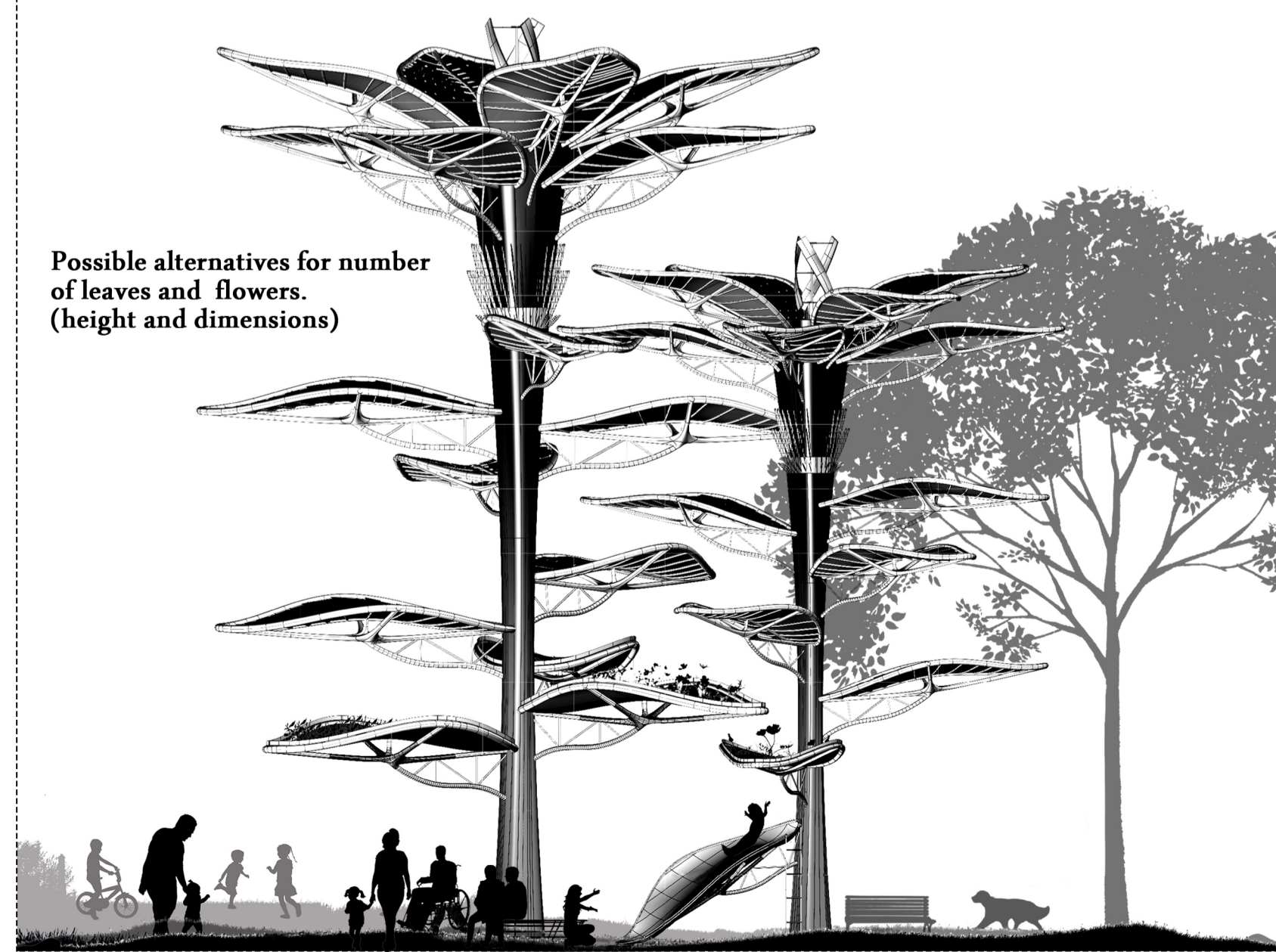
## URBAN SCALE ALTERNATIVES



**Shading paths**  
The shadows created by the leaves will provide suitable and pleasant spaces for daily activities of all ages.

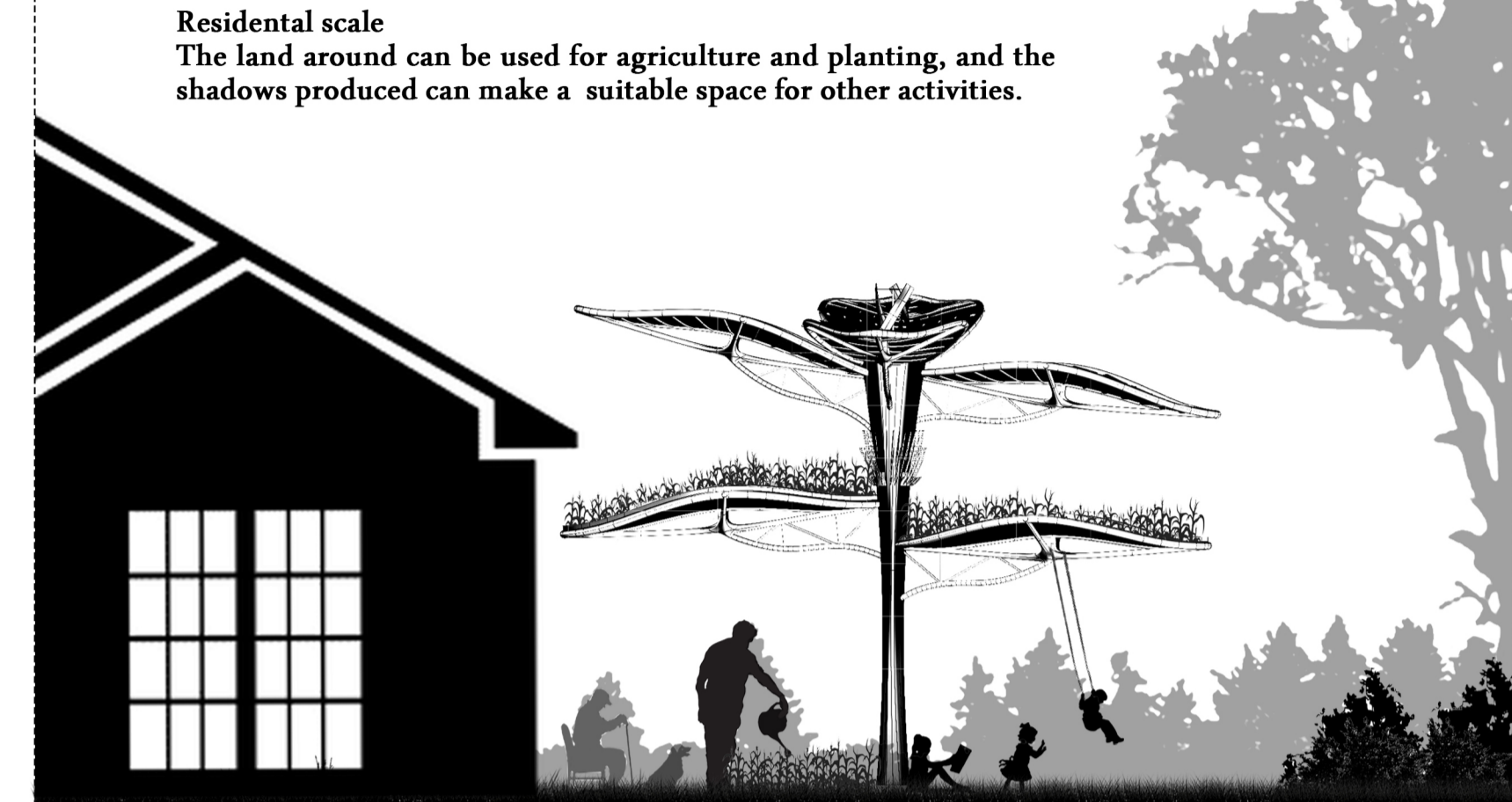


**Lighting**  
Using the stored energy in the battery to lights up around; Also different activities can take place under the leaves.

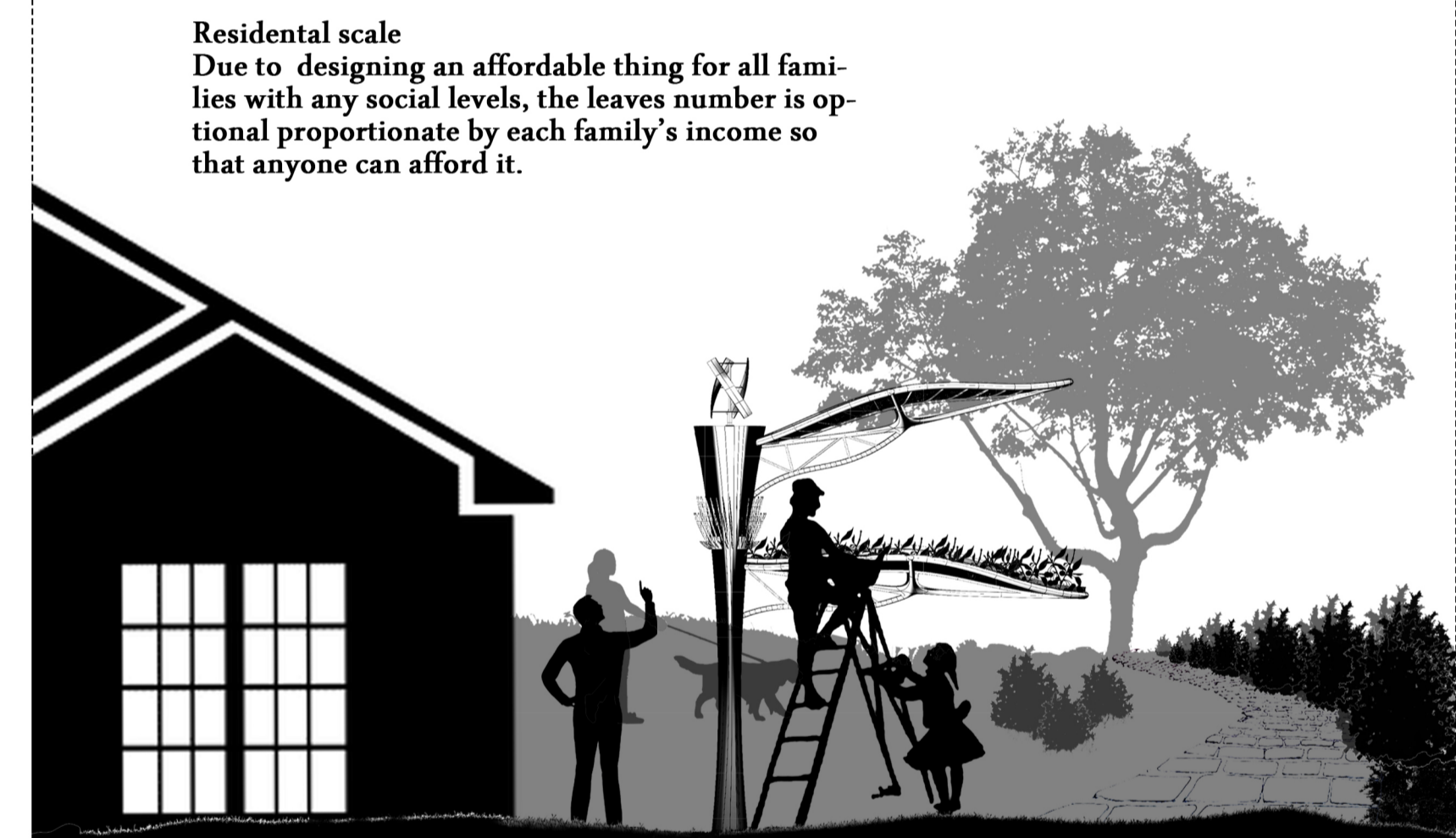


**Possible alternatives for number of leaves and flowers.**  
(height and dimensions)

## RESIDENTIAL SCALE ALTERNATIVES



**Residential scale**  
The land around can be used for agriculture and planting, and the shadows produced can make a suitable space for other activities.



**Residential scale**  
Due to designing an affordable thing for all families with any social levels, the leaves number is optional proportionate by each family's income so that anyone can afford it.

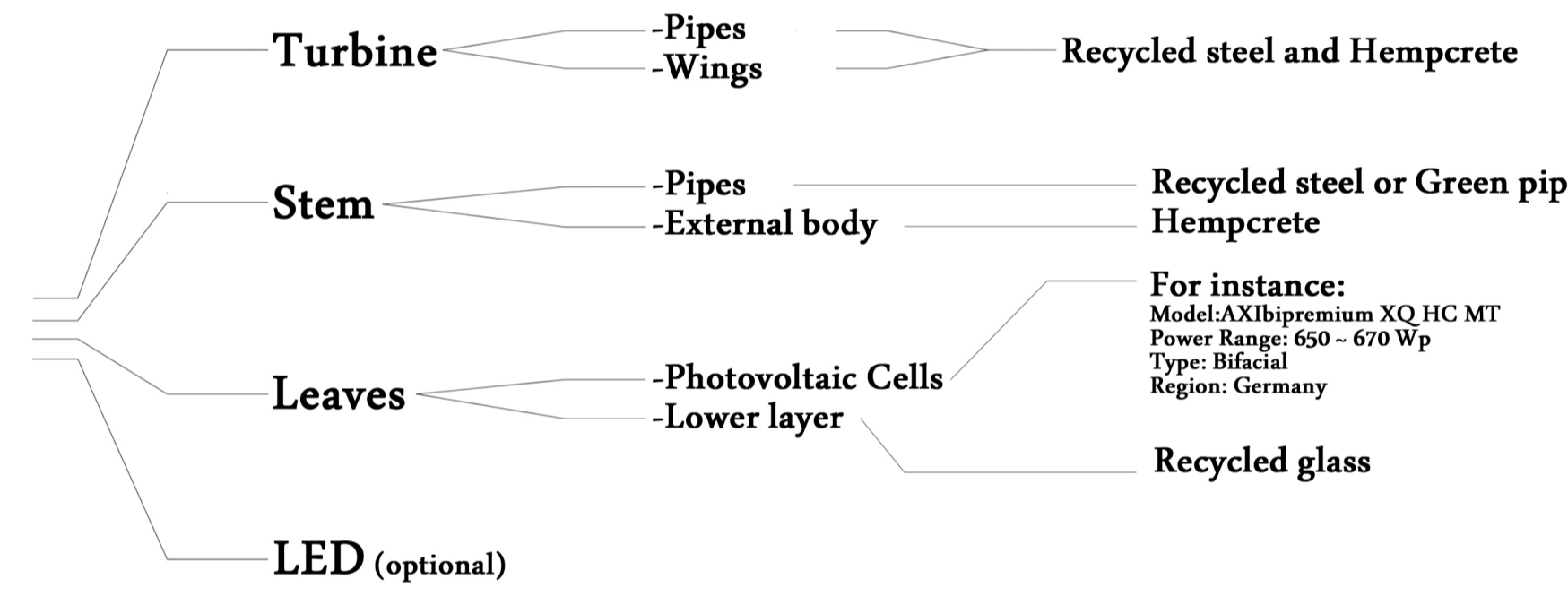


**Residential scale**  
Make people interested in agriculture along with energy saving while increasing the amount of food production to reduce the level of world poverty.



**Scalability (urban and residential):** Due to the changeability of the number, size, and height of leaves and stems, this design can be resized in different urban dimensions from 8 to 16 meters high and in residential dimensions from 3 to 8 meters high; Also, the number and scale of the leaves can be changed according to the needs of the users.

### Material of each part



EFFICIENCY		
<p><b>Wind Energy</b></p> <p>Residential scale <b>88</b> MW.h</p> <p>Urban scale <b>131.49</b> MW.h</p>	<p><b>Solar Energy</b></p> <p>Per leaf: <b>144.5</b> MW.h</p> <p>Urban scale <b>294.9</b> MW.h</p> <p><small>For instance a 16-meter flower with 10 leaves can produce up to 2900 MW.h</small></p>	<p><b>Agriculture product</b></p> <p>Per leaf: Residential scale For each agricultural leaf, 7 m<sup>2</sup> of cultivated land is created, for growing different crops (for example: average yield of mint harvested from it, will be 2Kg).</p> <p>Urban scale Each agricultural leaf gives us around 12 m<sup>2</sup> extra space for planting in addition to the ground space.</p>

