WHAT IS CLAIMED IS:

1. A concentrator apparatus, comprising:

a light receiver;

a light concentrator, the light concentrator including a first concentrating lens with a first focal point on the light receiver;

wherein a first side of the first concentrating lens is closer to the first focal point than a second side of the first concentrating lens.

2. The concentrator apparatus of claim 1, further including a partial vacuum space between the light concentrator and the light receiver.

3. The concentrator apparatus of claim 1, wherein the light receiver includes an insulating section that is configured to retain heat within the light receiver.

4. The concentrator apparatus of claim 1, wherein the light receiver comprises a pipe.

5. The concentrator apparatus of claim 4, wherein the pipe is configured to carry a fluid.

6. The concentrator apparatus of claim 5, wherein the pipe comprises a vacuum section.

7. The concentrator apparatus of claim 4, wherein the pipe comprises an insulation layer configured to retain heat within the pipe.

8. The concentrator apparatus of claim 7, further comprising a heat exchanger incorporated into the insulation layer.

9. The concentrator apparatus of claim 1, further comprising a heat spreader incorporated into the light receiver.

10. The concentrator apparatus of claim 1, further comprising:

a second concentrating lens adjacent to the first concentrating lens;

wherein the first concentrating lens is offset from the second concentrating lens; and

wherein the second concentrating lens has a second focal point on the light receiver.

11. The concentrator apparatus of claim 10, wherein the first focal point and the second focal point are at a same location on the light receiver.

12. A concentrating lens, comprising:

a transparent material, the transparent material including:

a light receiving surface;

a light exiting surface opposite the light receiving surface;

an area between the light receiving surface and the light exiting surface defining at least one concentrating plane, the at least one concentrating plane including a midpoint;

a plurality of refractive surfaces incorporated into at least one of the light receiving surface and the light exiting surface;

wherein the plurality of refractive surfaces directs light passing through the transparent material to a collective focal point; and

wherein a focal axis from the collective focal point to the midpoint forms a non-right angle with the at least one concentrating plane.

13. The concentrating lens of claim 12, wherein the non-right angle is between 60 degrees and 89 degrees.

14. A concentrator apparatus, comprising:

a light receiver;

a light concentrator, the light concentrator including;

a first transparent material;

a first concentrating lens with a first focal point on the light receiver;

a second transparent material between the first transparent material and the

first concentrating lens;

wherein the first concentrating lens is configured to direct light to the first focal point and is asymmetrically positioned over the first focal point.

15. The concentrator apparatus of claim 14, wherein the second transparent material comprises a fluid.

16. The concentrator apparatus of claim 14, further comprising a pathway defined in the light receiver configured to accommodate a flow of fluid.

17. The concentrator apparatus of claim 16, wherein the pathway further comprises:

a first portion defined in the light receiver; and

a second portion defined in part by the first transparent material and the first concentrating lens.

18. The concentrator apparatus of claim 17, wherein the second transparent material is configured to flow through the pathway.

19. The concentrator apparatus of claim 18, wherein said concentrator is configured to transfer solar heat to the second transparent material when the second transparent material is located in the first portion of the pathway; and

transfer solar heat to the second transparent material when the second transparent material is located in the second portion of the pathway;

wherein the first solar heat transfer exhibits a greater temperature increase than the second solar heat transfer.

20. The concentrating lens of claim 12, wherein the plurality of refractive surfaces each comprise a meta-optic array.