CLAIMS

~~WHAT IS CLAIMED IS:~~

1. A data center, comprising:

a plurality of resource zones;

computing resources located within each of the resource zones;

a plurality of uninterruptable power supplies, wherein each uninterruptable power supply is associated with an individual one of the resource zones, and wherein each uninterruptable power supply provides operating power to the computing resources located within the associated resource zone;

one or more power storage elements that provide temporary power, wherein the one or more power storage elements comprise:

a plurality of power storage elements associated respectively with individual uninterruptable power supplies, wherein each power storage element provides temporary power to the associated uninterruptable power supply;

a supplemental power storage element that provides supplemental power; and

a power bus that extends to each of the resource zones to share the temporary power provided by the one or more power storage elements among the uninterruptable power supplies, wherein the power bus connects the supplemental power storage element to the power storage elements to supplement the temporary power of the power storage elements.

2. The data center of claim 1, further comprising control logic that selectively directs the temporary power among the uninterruptible power supplies in response to power depletion of the one or more power storage elements.

3. The data center of any preceding claim, wherein:

the one or more power storage elements comprise a plurality of power storage elements that are commonly located; and

the power bus extends from the plurality of uninterruptable power supplies to each of the resource zones.

4. The data center of any preceding claim, wherein:

a particular one of the uninterruptable power supplies is associated with a first of the one or more power storage elements; and

further comprising control logic that selectively directs the temporary power provided by a second of the one or more power storage elements to said particular one of the uninterruptable power supplies in response to power depletion of said first of the one or more power storage elements.

5. The data center of any of claims 1-3, wherein:

a first of the uninterruptable power supplies is associated with a first of the one or more power storage elements;

a second of the uninterruptable power supplies is associated with a second of the one or more power storage elements; and

further comprising control logic that selectively directs the temporary power provided by the second of the one or more power storage elements to the first of the uninterruptable power supplies in response to power depletion of said first of the one or more power storage elements.

6. The data center of any preceding claim, wherein:

each uninterruptable power supply is located at its associated resource zone;

each power storage element is located at a corresponding one of the resource zones; and

the power storage element located at a particular resource zone provides temporary power to the uninterruptable power supply located at said particular resource zone.

7. The data center of any preceding claim, further comprising a plurality of backup generators, wherein the one or more power storage elements are configured to provide the temporary power during startup of the backup generators.

~~8. The data center of any preceding claim, wherein the one or more power storage elements comprise:~~

~~a plurality of dedicated power storage elements associated respectively with individual uninterruptable power supplies, wherein each dedicated power storage element provides temporary power to the associated uninterruptable power supply;~~

~~a supplemental power storage element that provides supplemental power; and~~

~~wherein the power bus connects the supplemental power storage element to the dedicated power storage elements to supplement the temporary power of the dedicated power storage elements.~~

98. The data center of claim 81, further comprising control logic that selectively directs the temporary power provided by the supplemental power storage element to the uninterruptable power supply associated with one of the ~~dedicated~~ power storage elements in response to power depletion of said one of the ~~dedicated~~ power storage elements.

109. The data center of any preceding claim, wherein the one or more power storage elements comprise:

a plurality of ~~dedicated~~ battery sets associated respectively with individual uninterruptable power supplies, wherein each ~~dedicated~~ battery set provides temporary power to the associated uninterruptable power supply;

a supplemental battery set that provides supplemental power; and

wherein the power bus connects the supplemental battery set to the ~~dedicated~~ battery sets to supplement the temporary power of the ~~dedicated~~ battery sets.

~~11~~10. The data center of any preceding claim, wherein the one or more power storage elements comprise:

a plurality of kinetic energy storage devices associated respectively with individual uninterruptable power supplies, wherein each kinetic energy storage device provides temporary power to the associated uninterruptable power supply;

one or more batteries that provide supplemental power; and

wherein the power bus connects the one or more batteries to the uninterruptible power supplies associated with the kinetic energy storage devices to supplement the temporary power of the one or more kinetic energy storage devices.

~~12~~11. A method, comprising:

operating computing resources within resource zones of a data center;

supplying operating power to the computing resources from uninterruptable power supplies associated respectively with the resource zones;

providing temporary power to the uninterruptable power supplies from one or more power storage elements, wherein the one or more power storage elements comprise:

a plurality of power storage elements associated respectively with individual uninterruptable power supplies, wherein each power storage element provides temporary power to the associated uninterruptable power supply;

a supplemental power storage element that provides supplemental power; ~~and~~

sharing the temporary power from the one or more power storage elements among the uninterruptable power supplies associated with the resource zones; and

supplementing the temporary power of the power storage elements with the supplemental power from the supplemental power storage element.

~~13~~12. The method of claim ~~12~~11, wherein the one or more power storage elements include at least one power storage element that is located at a corresponding one of the resource zones, or wherein the one or more power storage elements include at least one

power storage element located at each of the resource zones, or wherein the one or more power storage elements include at least one kinetic energy storage device that is associated with each of the resource zones and at least one chemical power storage device that is associated with a plurality of the resource zones.

~~14~~13. The method of claim ~~12~~11 or ~~13~~12, wherein:

a particular one of the uninterruptable power supplies is associated with a first of the one or more power storage elements; and

sharing the temporary power comprises selectively directing the temporary power provided by a second of the one or more power storage elements to said particular one of the uninterruptable power supplies in response to power depletion of said first of the one or more power storage elements.

~~15~~14. The method of any of claims ~~12~~11-~~14~~13, wherein:

a first of the uninterruptable power supplies is associated with a first of the one or more power storage elements;

a second of the uninterruptable power supplies is associated with a second of the one or more power storage elements; and

sharing the temporary power comprises selectively directing the temporary power provided by the second of the one or more power storage elements to the first of the uninterruptable power supplies in response to power depletion of said first of the one or more power storage elements.