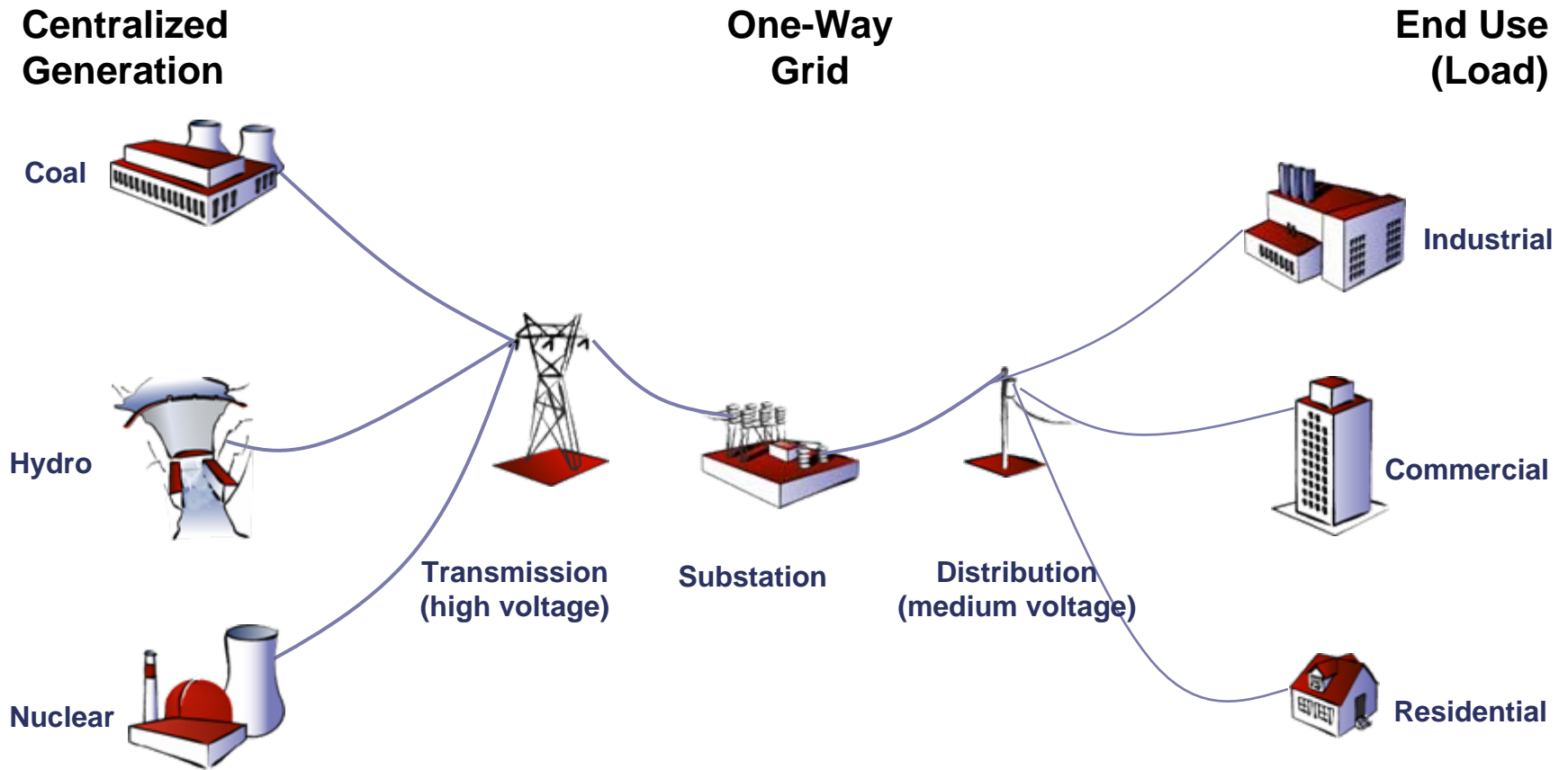




The Old Model



Courtesy of Jesse Berst, Global SmartEnergy.



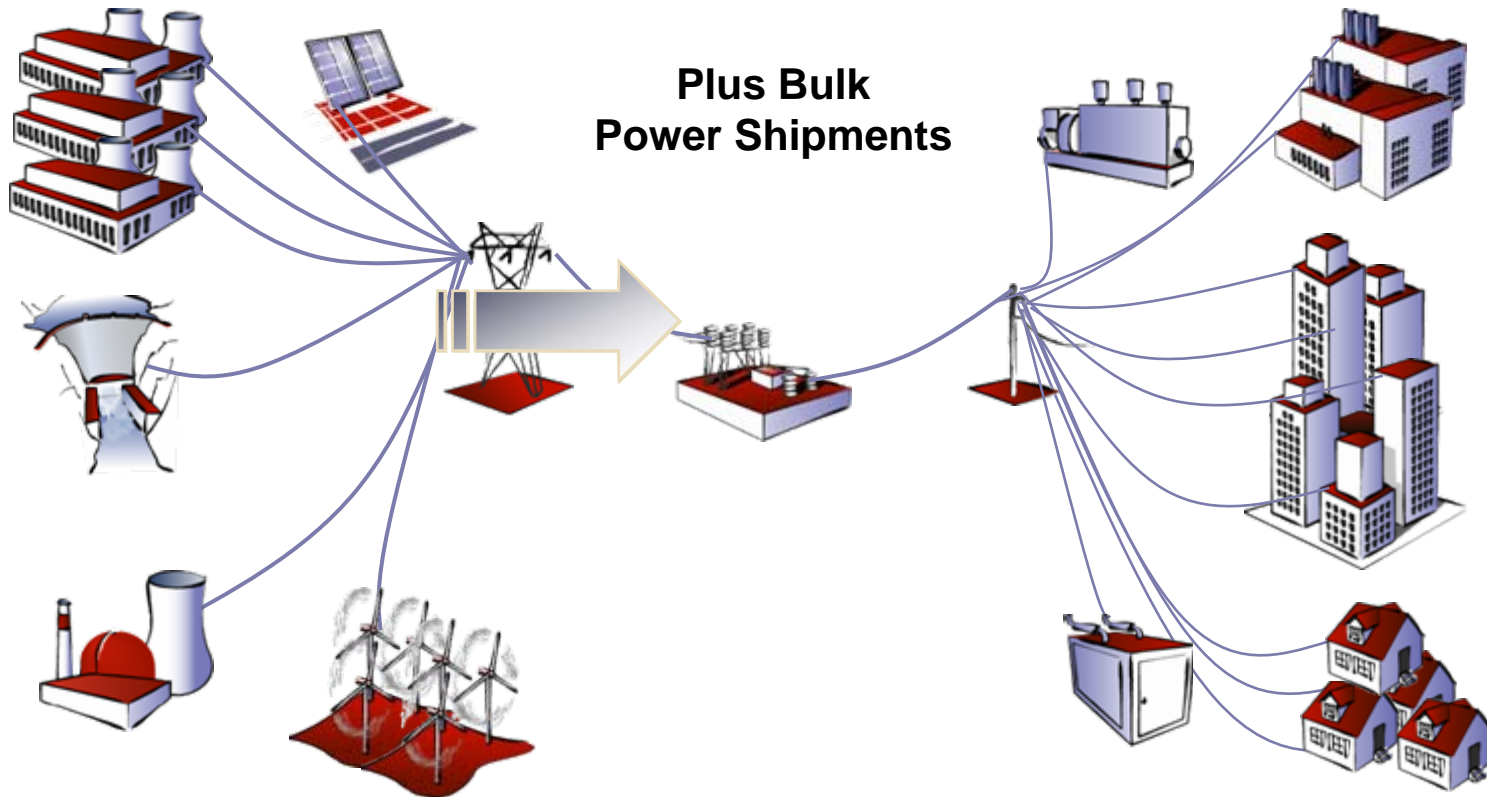
The New Realities

**Additional
Centralized**

Plus Renewables

**Plus Dist.
Generation**

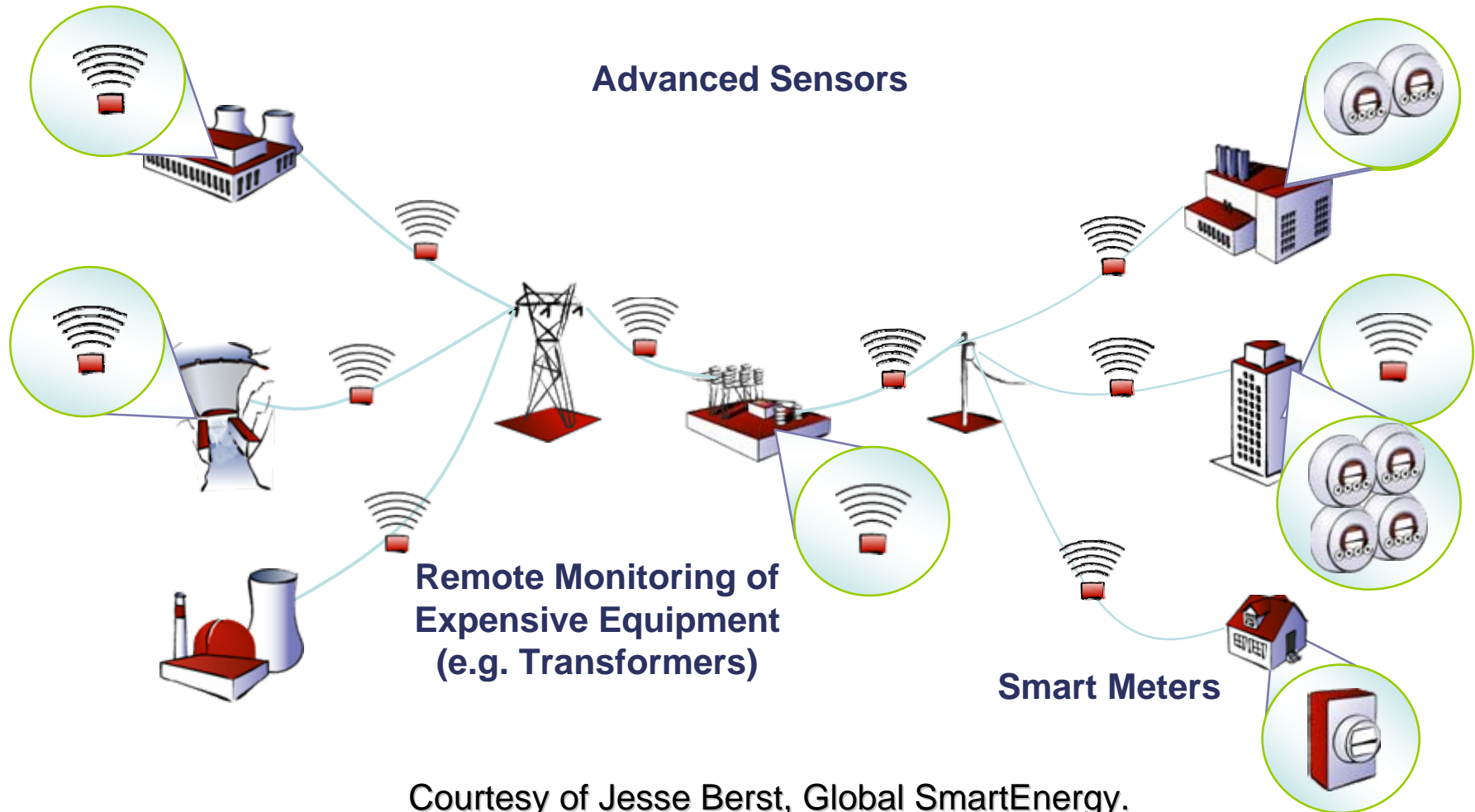
**Additional
Load**



Courtesy of Jesse Berst, Global SmartEnergy.

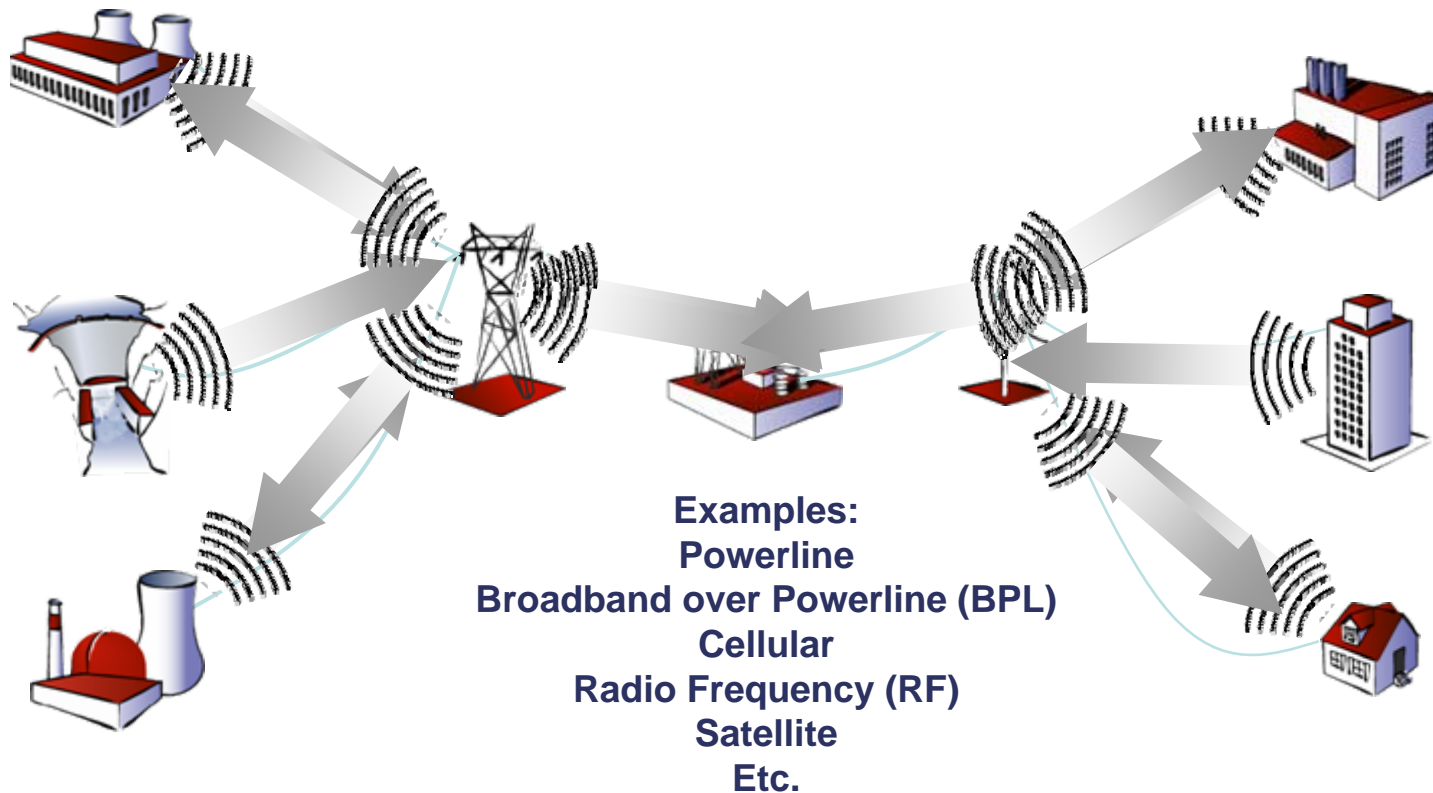


Sensing and Measurement



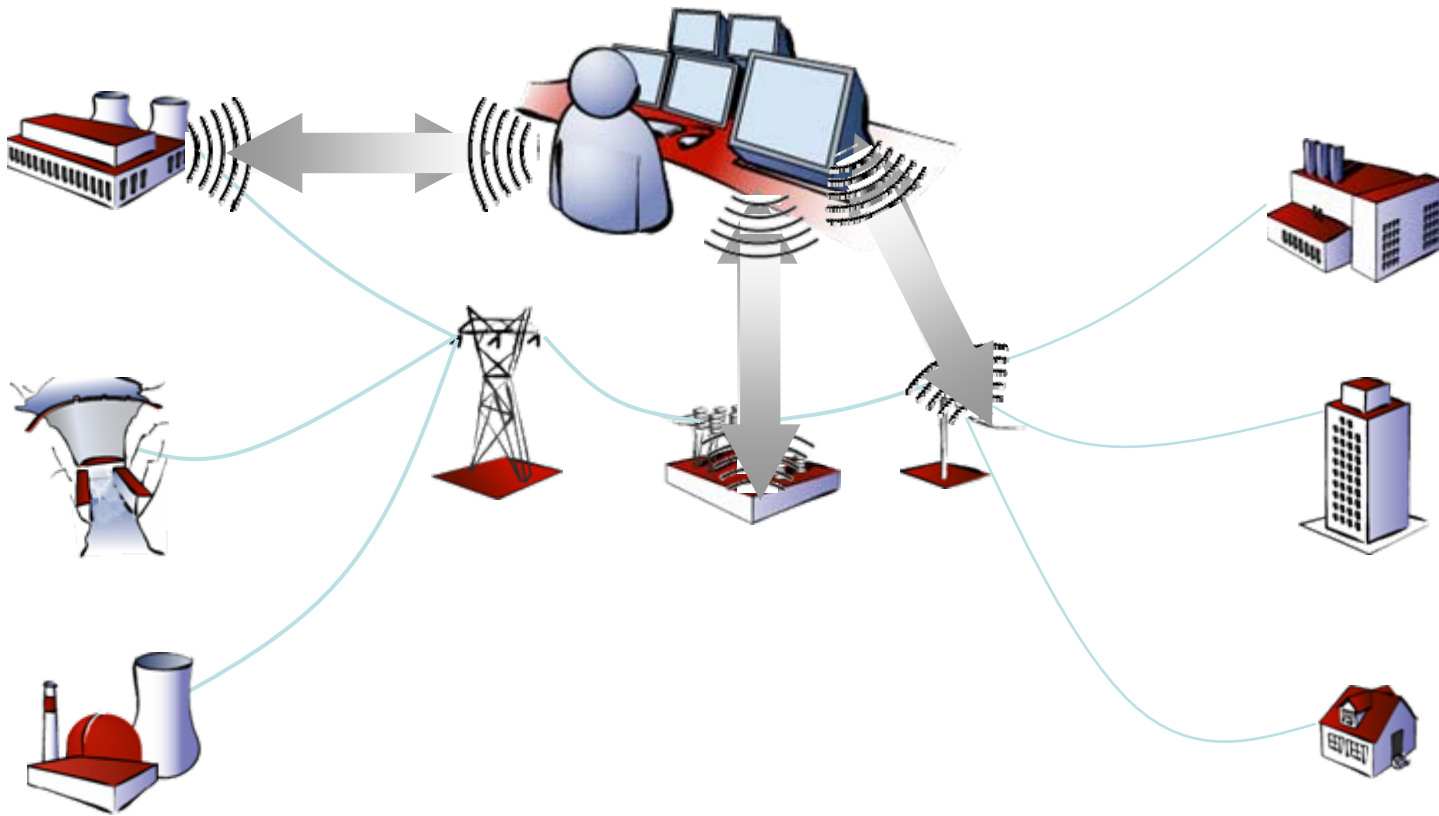
Courtesy of Jesse Berst, Global SmartEnergy.

Two-Way Communications



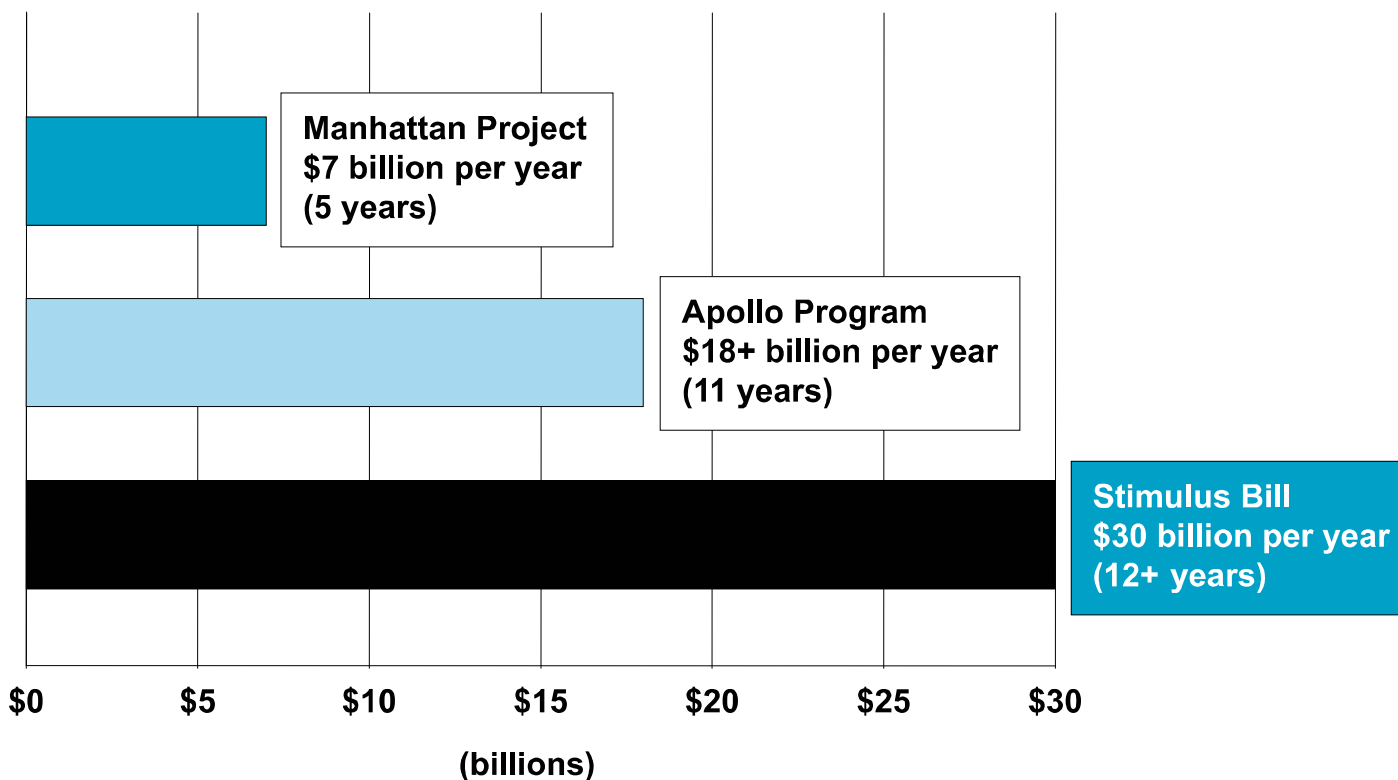
Courtesy of Jesse Berst, Global SmartEnergy.

Advanced Control



Courtesy of Jesse Berst, Global SmartEnergy.

Comparison of Programs (2009 Dollars)*



*Source: *NewScientist* (March 4, 2009)