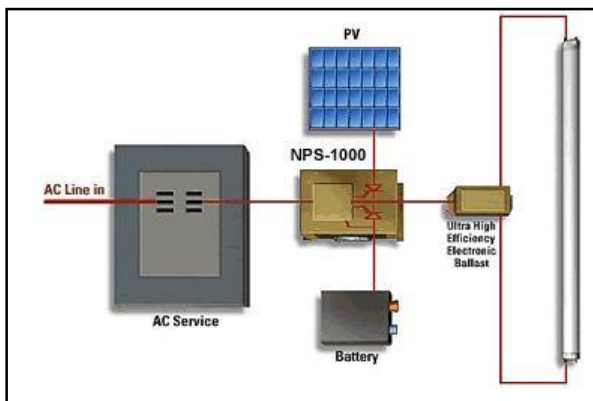
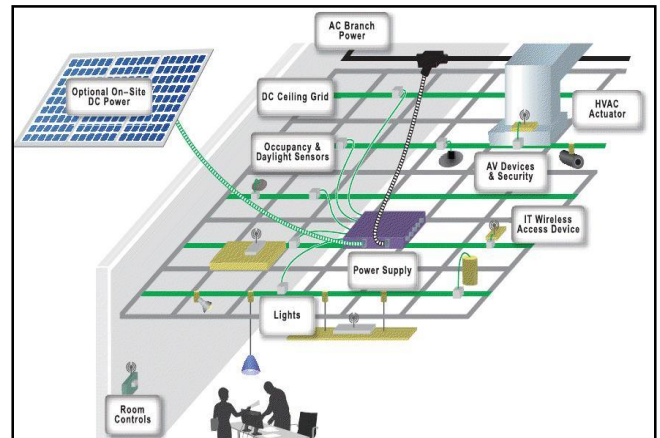


RER Energy Group assisted with the integration of solar for the Pennsylvania State University Emerge Alliance 24 VDC Micro-Grid Project. This project adopted the standards set by the Emerge Alliance to utilize the energy savings and flexibility advantages of DC direct power systems. These systems avoid the inefficient and expensive conversion of energy from DC to AC when DC power supply sources are available and DC power is utilized by the end electrical devices, while at the same time integrating battery backup, AC grid or other sources for uninterrupted power supply when needed.

Industry Collaborators

- RER Energy Group
- Penn State University
- Emerge Alliance
- Armstrong World Industries
- Nextek Power Systems
- TE Connectivity
- East Penn Manufacturing
- Canadian Solar
- Cooper Lighting Systems



DC Micro-Grid Benefits

- Clean, Efficient and Less Expensive Power
- Highly efficient peak load management
- Easy conversion of AC grid power into DC power
- Easy conversion of AC lighting to DC-powered
- Highly efficient peak load management
- Complete continuity of supply through the seamless integration of rechargeable batteries
- Complete continuity of alternative energy sources such as PV, micro turbines and fuel cells
- Independence from Utility grid failure

DC Micro-Grid Cost Savings & Applications

- Up to 30% more efficient than most AC systems
- 20% more efficient than best AC systems for data centers
- Interior & Exterior Lighting
- Signage & HVAC
- Electric Vehicle Charging Stations

