BUILDING INTEGRATED PHOTOVOLTAICS
Atlantis Energy Systems (AES) became a part of the design & engineering team as an integrator, working with the local curtain-wall fabricator, Rock Valley Glass and GC, Sjostrom and Sons to make a design statement of Power, Mathematics, Sustainability, Science and Social Responsibility.

AES is the only Full Integrator in the US that can provide Turn-key service from solar analysis to fabrication. The New York based manufacturer’s philosophy is to be the leader in engineering and architectural design solutions for building integration, by combining both daylight harvesting and renewable power generation.

In addition to the integrated PV glazing at Rock Valley College, AES Building Integrated Photovoltaics (or BIPV) solutions can turn a roof, skylights or the curtain-wall of a building into a complete, multifunctional, high-performing, solar-energy power plant. AES provides the most extensive & innovative approach to design and implementation of BIPV.
Non-IG Modules: 2'-7.5"x4'-3"

Encapsulation: EVA (TYP)
- Q Cell
  6"x6" Multicrystalline

TE Connectivity
- Straddle Edge JBox
  0.39" profile

Frameless

IG Units/Modules:
- 5'-2.5"x6'-1.5"
- Argon Filled

1/4" Low Iron Solar Glass
1/4" Clear Edged Glass

0.018" Ethylene Vinyl Acetate (EVA)
Specialized Technology Resources
Photocap FC295P/UF

Warranty:
- 20 year power output to within 80%
- 25 year curtain wall

Ppeak Watts (dc): 39
Vmax system (dc): 600

Ppeak Watts (dc): 98
ENERGY SAVING TECHNOLOGIES

GEOTHERMAL FIELD
WATER COOLED HEAT PUMPS
CHILLED BEAM COOLING
VAV AIR HANDLING UNITS
ENERGY RECOVERY ON AIR HANDLING UNITS
THERMALLY EFFICIENT GLAZING
WHITE MEMBRANE ROOF W/R-27 INSULATION
GEOTHERMAL DOMESTIC WATER HEATING
VARIABLE FREQUENCY DRIVES
HIGH EFFICIENCY LIGHTING FIXTURES
DAYLIGHTING / OCCUPANCY SENSORS
MULTIPLE SWITCHING ZONES
BUILDING INTEGRATED PHOTOVOLTAIC SYSTEM

Our Thanks to the In-Kind Support of:

About A Design Consulting
A Design Consulting is a full-service architectural consulting firm committed to providing the building community with sustainably driven solar power engineering and development, education, research, and technical analysis, LEED® documentation.
Over 20 years of technically driven architectural design experience including solar and renewable energy system design and engineering with Architects licensed in Florida, Illinois & California and Electrical, Mechanical and Structural Engineers including licensed professionals.

About Atlantis Energy Systems, Inc.
Atlantis Energy Systems, Inc. manufactures and supplies building integrated photovoltaic (BIPV) products for residential and high-end homeowners, commercial real estate developers, governments, and institutions in the United States. The company offers BIPV slate roofing tiles called SUNSLATES and custom architectural PV glazing systems. It also provides other BIPV roofing slates, BIPV glass laminates, and custom BIPV solutions, as well as a selection of custom made panels ready for integration into a specific system such as curtain walls, skylights, roofs or public art work. In addition, the company offers system design, project coordination, turn-key system integration, and training services. It serves architects, developers, homeowners, and community representatives.

The company offers its products through dealers in San Francisco, CA; Fort Lauderdale, FL; Chicago, IL; New York, NY; and Dublin, Ireland, as well as in Canada. Atlantis Energy Systems, Inc. was founded in 2002 with manufacturing in Poughkeepsie, NY and is based in Sacramento, CA with sales offices in Orange County, as well as in the Midwest and the East Coast.

Chilled Beams are used in 60% of the conditioned spaces
Saved over 45% of airflow using chilled beams and a Dedicated Outdoor Air System