

EA PREREQ -1

Fundamental Commissioning of the Building Energy Systems

What is the intent of EA Prerequisite - 1?

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ENERGY & ATMOSPHERE 002 - FRONT

EA PREREQ -1

Fundamental Commissioning of the Building Energy Systems

What are the requirements of EA Prerequisite - 1?

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EA PREREQ -1

Fundamental Commissioning of the Building Energy Systems

What are potential technologies & strategies of EA Prerequisite - 1?

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EA PREREQ -1

Fundamental Commissioning of the Building Energy Systems

What standards are referenced in EA Prerequisite - 1?

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EA PREREQ -2

Minimal Energy Performance

What is the intent of EA Prerequisite - 2?

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EA PREREQ -2

Minimal Energy Performance

What are the requirements of EA Prerequisite - 2?

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EA PREREQ -2

Minimal Energy Performance

What are potential technologies & strategies of EA Prerequisite - 2?

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EA PREREQ -2

Minimal Energy Performance

What standards are referenced in EA Prerequisite - 2?

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Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 002 - REAR

Verify that the building's energy related systems are installed, calibrated and perform according to the owner's project requirements, basis of design, and construction documents.

ENERGY & ATMOSPHERE 001 - REAR

There is no standard referenced for this credit

ENERGY & ATMOSPHERE 004 - REAR

Design the building envelope and building systems to maximise energy performance. Use a computer simulation model to assess the energy performance and identify the most cost-effective energy efficiency measures. Quantify energy performance as compared to a base line building.

ENERGY & ATMOSPHERE 003 - REAR

Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 006 - REAR

Establish the minimum level of energy efficiency for the base building and systems.

ENERGY & ATMOSPHERE 005 - REAR

- **ASHRAE/IESNA 90.1-2004: Energy Standard for Buildings Except Low- Rise Residential**

ENERGY & ATMOSPHERE 008 - REAR

Design the building envelope , HVAC, and other systems to maximize energy performance.

ENERGY & ATMOSPHERE 007 - REAR

EA PREREQ - 3
Fundamental Refrigerant Management

What is the intent of EA Prerequisite - 3?

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EA PREREQ - 3
Fundamental Refrigerant Management

What are the requirements of EA Prerequisite - 3?

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EA PREREQ - 3
Fundamental Refrigerant Management

What are potential technologies & strategies of EA Prerequisite - 3?

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EA PREREQ - 3
Fundamental Refrigerant Management

What standards are referenced in EA Prerequisite - 3?

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EA CREDIT - 1
Optimize Energy Performance

What is the intent of EA Credit - 1?

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EA CREDIT - 1
Optimize Energy Performance

What are the requirements of EA Credit - 1?

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ENERGY & ATMOSPHERE 014 - FRONT

EA CREDIT - 1
Optimize Energy Performance

What are potential technologies & strategies of EA Credit - 1?

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EA CREDIT - 1
Optimize Energy Performance

What standards are referenced in EA Credit - 1?

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ENERGY & ATMOSPHERE 016 - FRONT

Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 010 - REAR

Reduce ozone pollution.

ENERGY & ATMOSPHERE 009 - REAR

- **EPA Clean Air Act, Title VI, Rule 608 Procedure Governing Refrigerant Management and Reporting**
- **EPA list of Substitutes for Ozone-Depleting Substances**

ENERGY & ATMOSPHERE 012 - REAR

When reusing existing HVAC systems, conduct an inventory to identify equipment that uses CFC refrigerants and adopt a replacement schedule for those refrigerants. For new buildings, specify new HVAC equipment that uses no CFC refrigerants.

ENERGY & ATMOSPHERE 011 - REAR

Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 014 - REAR

Achieve increasing levels of energy performance above the baseline in the prerequisite standard to reduce the environmental and economic impacts associated with excessive energy use.

ENERGY & ATMOSPHERE 013 - REAR

- **ASHRAE/IESNA 90.1-2004: Energy Standard for Buildings Except Low-Rise Residential, and Informative Appendix G - Performance Rating Method**

ENERGY & ATMOSPHERE 016 - REAR

Design the building envelope and building systems to maximize energy performance. Use a computer simulation model to assess the energy performance and identify the most cost-effective energy efficiency measures. Quantify energy performance as compared to a baseline building.

ENERGY & ATMOSPHERE 015 - REAR

EA CREDIT - 2.1 to 2.3
On-Site Renewable Energy

What is the intent of EA Credit - 2?

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EA CREDIT - 2.1 to 2.3
On-Site Renewable Energy

What are the requirements of
EA Credit - 2?

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EA CREDIT - 2.1 to 2.3
On-Site Renewable Energy

What are potential technologies & strategies of
EA Credit - 2?

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EA CREDIT - 2.1 to 2.3
On-Site Renewable Energy

What standards are referenced in
EA Credit - 2?

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EA CREDIT - 3
Enhanced Commissioning

What is the intent of EA Credit - 3?

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EA CREDIT - 3
Enhanced Commissioning

What are the requirements of
EA Credit - 3?

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EA CREDIT - 3
Enhanced Commissioning

What are potential technologies & strategies of
EA Credit - 3?

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EA CREDIT - 3
Enhanced Commissioning

What standards are referenced in
EA Credit - 3?

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Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 018 - REAR

Encourage and recognize increasing levels of on-site renewable energy self-supply in order to reduce environmental and economic impacts associated with fossil fuel energy use.

ENERGY & ATMOSPHERE 017 - REAR

- **ASHRAE/IESNA 90.1-2004: Energy Standard for Buildings Except Low- Rise Residential**
- **DOE Commercial Building Energy Consumption Survey (CBECS)**

ENERGY & ATMOSPHERE 020 - REAR

Assess the project for non-polluting and renewable energy potential solar, wind, geothermal, low-impact hydro, biomass and bio-gas strategies. When applying these strategies, take advantage of net metering with the local utility.

ENERGY & ATMOSPHERE 019 - REAR

Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 022 - REAR

Begin the commissioning process early during the design process and execute additional activities after systems performance verification is completed.

ENERGY & ATMOSPHERE 021 - REAR

There is no standard referenced for this credit

ENERGY & ATMOSPHERE 024 - REAR

Although it is preferable that the CxA be contracted by the Owner, for this credit, the CxA may also be contracted through the design construction management firms not holding construction contracts.

Detailed guidance can be found in the LEED-NC 2.2 Reference Guide.

ENERGY & ATMOSPHERE 023 - REAR

EA CREDIT - 4
Enhanced Refrigerant Management

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EA CREDIT - 4
Enhanced Refrigerant Management

What are the requirements of EA Credit - 4?

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EA CREDIT - 4
Enhanced Refrigerant Management

What are potential technologies & strategies of EA Credit - 4?

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EA CREDIT - 4
Enhanced Refrigerant Management

What standards are referenced in EA Credit - 4?

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EA CREDIT - 5
Measurement & Verification

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EA CREDIT - 5
Measurement & Verification

What are the requirements of EA Credit - 5?

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EA CREDIT - 5
Measurement & Verification

What are potential technologies & strategies of EA Credit - 5?

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EA CREDIT - 5
Measurement & Verification

What standards are referenced in EA Credit - 5?

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Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 026 - REAR

Reduce ozone depletion and support early compliance with the Montreal Protocol while minimizing direct contributions to global warming.

ENERGY & ATMOSPHERE 025 - REAR

There is no standard referenced for this credit

ENERGY & ATMOSPHERE 026 - REAR

Design and operate the facility without mechanical cooling and refrigeration equipment. Where mechanical cooling is used, utilize base building HVAC and refrigeration systems for the refrigeration cycle that minimize direct impact on ozone depletion and global warming. Select HVAC&R equipment with reduced refrigerant charge and increased equipment life. Maintain equipment to prevent leakage of the refrigerant to the atmosphere. Utilize fire suppression systems that do not contain HCFCs or Halons.

ENERGY & ATMOSPHERE 027 - REAR

Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 030 - REAR

Provide for ongoing accountability and optimization of building energy consumption over time.

ENERGY & ATMOSPHERE 029 - REAR

• International Performance Measurements and Verification Protocol (IPMVP) Volume III

ENERGY & ATMOSPHERE 032 - REAR

Technologies & Strategies:
Coming soon!!

ENERGY & ATMOSPHERE 031 - REAR

EA CREDIT - 6
Green Power

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EA CREDIT - 6
Green Power

What are the requirements of
EA Credit - 6?

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EA CREDIT - 6
Green Power

What are potential technologies & strategies
of EA Credit - 6?

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EA CREDIT - 6
Green Power

What standards are referenced in
EA Credit - 6?

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Requirements:
Coming soon!!

ENERGY & ATMOSPHERE 034 - REAR

Encourage the development and use of grid-source, renewable energy technologies on a net zero pollution basis.

ENERGY & ATMOSPHERE 033 - REAR

- **Center for Resources (CRS) Green-e Products Certification Requirements**
- **DOE Commercial Building Energy Consumption Survey (CBECS)**

ENERGY & ATMOSPHERE 036 - REAR

Determine the energy needs of the building and investigate opportunities to engage in a green power contract. Green power is derived from solar, wind, geothermal, biomass or low-impact hydro sources. Renewable energy certificates (RECs), tradeable renewable certificates (TRCs), green tags and other forms of green power that comply with technical requirements can be used to document compliance with this credit.

ENERGY & ATMOSPHERE 035 - REAR