

## Optimize energy performance

Possible 18 points

### Intent

To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.

### Requirements

#### Whole-Building Energy Simulation

Analyze efficiency measures focused on IT load reduction and HVAC-related strategies (air-side economizers, hot aisle-cold aisle, etc.). Project the potential energy savings and cost implications for all affected systems.

Follow the criteria in EA Prerequisite Minimum Energy Performance to demonstrate a percentage improvement in the proposed performance rating compared with the baseline.

Use energy cost savings from both the building and IT to determine the total percentage reduction.

**Table 1. Points for percentage improvement in energy performance**

New Construction	Major Renovation	Core and Shell	Points (except Schools, Healthcare)	Points Healthcare	Points Schools
6%	4%	3%	1	3	1
8%	6%	5%	2	4	2
10%	8%	7%	3	5	3
12%	10%	9%	4	6	4
14%	12%	11%	5	7	5
16%	14%	13%	6	8	6
18%	16%	15%	7	9	7
20%	18%	17%	8	10	8
22%	20%	19%	9	11	9
24%	22%	21%	10	12	10
26%	24%	23%	11	13	11
29%	27%	26%	12	14	12
32%	30%	29%	13	15	13
35%	33%	32%	14	16	14
38%	36%	35%	15	17	15
42%	40%	39%	16	18	16
46%	44%	43%	17	19	-
50%	48%	47%	18	20	-

#### Pilot ACPs Available

The following pilot alternative compliance path is available for this credit. See the [pilot credit library](#) for more information.

[EApc95: Alternative Energy Performance Metric ACP](#)  
[EApc107 - Energy performance metering path](#)  
[EApc111: Alternative Performance Rating Method](#)  
[EApc120: District Energy](#)