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## Electrical, power in industrial facilities

The Consulting-Specifying Engineer 2016 Electrical and Power Study indicated that 56% of engineers specify, design, or make product selections for industrial/manufacturing facilities/warehouses.

Consulting-Specifying Engineer  
10/14/2016



The [Consulting-Specifying Engineer 2016 Electrical and Power Study](#) indicated that 56% of engineers specify, design, or make product selections for industrial/manufacturing facilities/warehouses—and seven in 10 of these engineers are responsible for determining requirements/writing specifications and/or supervising or consulting for these projects. Below are five electrical and power findings as they relate to industrial facility projects:

**1. Annual specified products value:** The average engineering firm specifies \$3,137,000 in total electrical or power systems for new and existing industrial facilities annually, with 39% specifying more than \$5 million.

**2. Issues affecting future designs:** The most critical issues affecting the future of electrical or power systems in industrial facilities are the lack of a skilled workforce (22%) and budget/costs (22%).

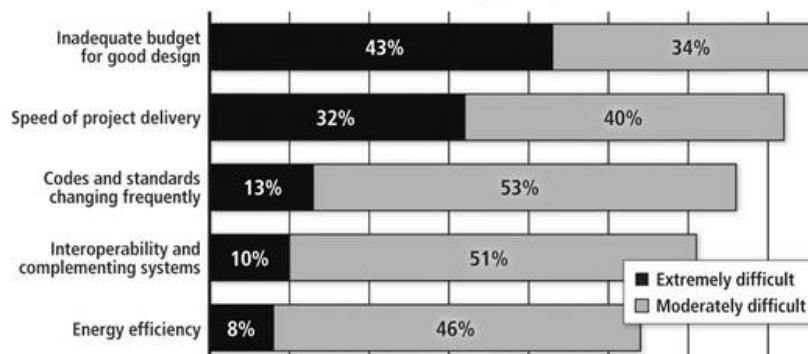
**3. Products specified:** Circuit breakers, fuses, etc. (81%); transformers (79%); electrical distribution (74%); and power and standby power systems or equipment (73%) are most commonly specified for industrial facility projects.

**4. Selection factors:** When comparing electrical or power systems for industrial facility projects, engineers are most interested in product quality (81%), service support availability (57%), a manufacturer's reputation (50%), previous experience with a manufacturer (44%), and the product's technical advantage (42%).

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### Electrical, power design challenges for industrial facility projects



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**5. Specifications:** For industrial facilities, engineers most often write performance (79%), prescriptive (72%), or open (alternate or substitute, 59%) specifications.

**77%** of mechanical engineers regularly specify air-balancing, test-and-balance, or environmental-balancing building systems. Source: *Consulting-Specifying Engineer* 2015 HVAC and Building Automation Systems Study

**2/3** of fire protection design engineers are challenged with inadequate budgets for proper fire and life safety system design. Source: *Consulting-Specifying Engineer* 2016 Fire and Life Safety Study

**\$7.6 million:** Average annual mechanical, electrical, plumbing/fire protection (MEP/FP) design revenue earned by firms specifying electrical or power systems in 2015. Source: *Consulting-Specifying Engineer* 2016 Electrical and Power Study

View more information at [www.csemag.com/2016ElectricalPower](http://www.csemag.com/2016ElectricalPower). Amanda Pelliccione is the research director at CFE Media. *Consulting-Specifying Engineer* covers several research topics each year. All reports are available at: [www.csemag.com/research](http://www.csemag.com/research).

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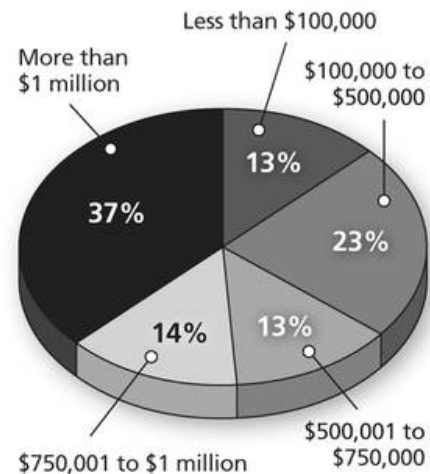
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