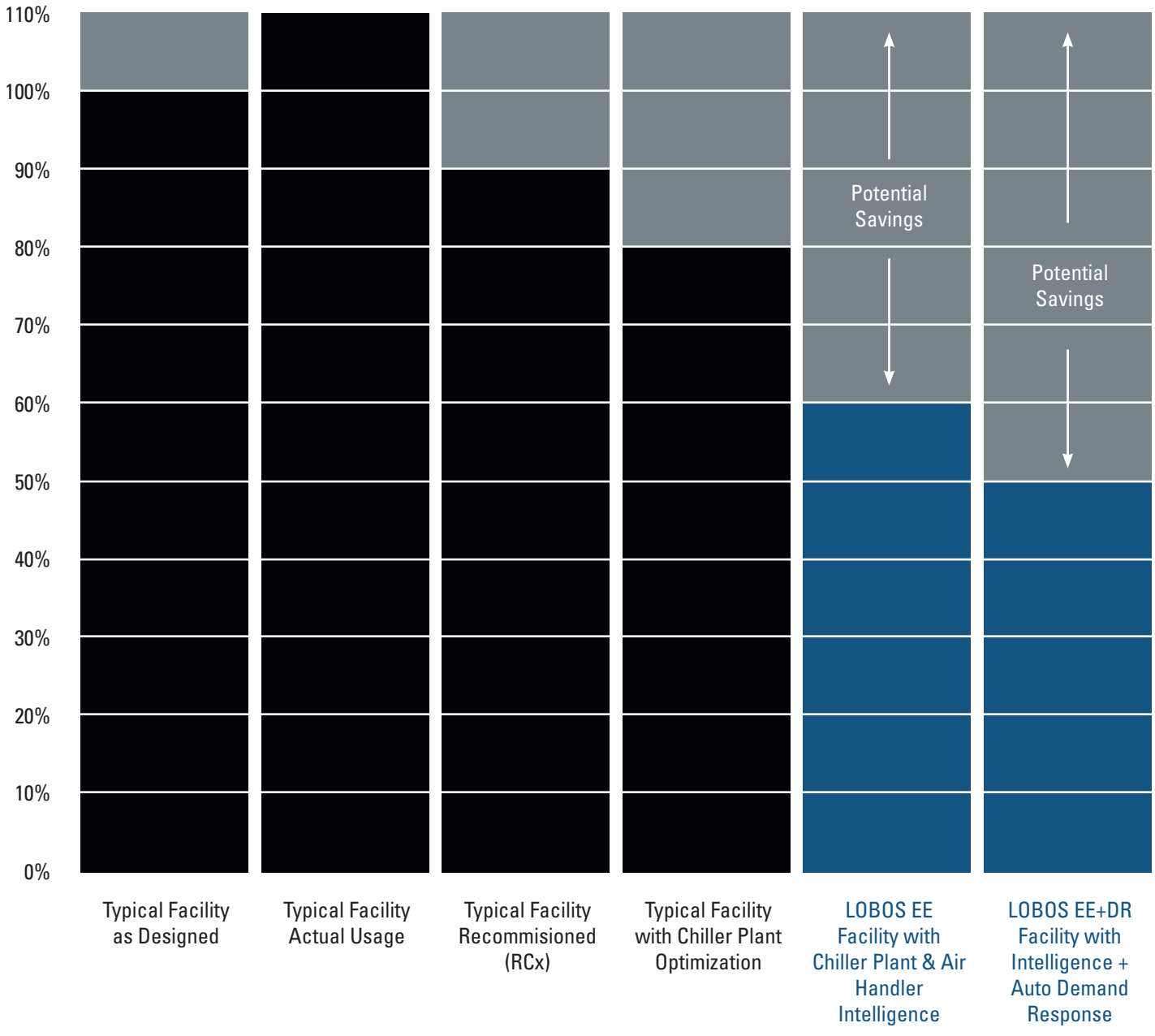
LOBOS BEYOND OPTIMIZATION

LARGE COMMERCIAL BUILDING HVAC ENERGY COSTS



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LOBOS™

By Enerliance

LOBOS
BEYOND OPTIMIZATION

A Brief Q&A for the Energy Efficiency Professional

QUESTION:

How is LOBOS different than Retro-Commissioning (RCx) and Chiller Plant Optimization?

ANSWER:

Think of everything you know about RCx and Chiller Plant Optimization, the operating savings that they can produce, and then think of LOBOS as technology that picks up where those things leave off.

LOBOS Client

ANSWER:

Basically, LOBOS is a software platform that provides intelligent HVAC control, and the name is an acronym for Load Based Optimization System. What it does is make building occupants more comfortable while converting the waste inherent in large scale HVAC systems into energy savings and automated demand response capacity.

You hear a lot of talk in the market about Retro-Commissioning, RCx, MBCx and chiller plant optimization, so when we talk about LOBOS, industry people often say "…oh, you're doing optimization" or "…you're doing RCx", but this is only superficially accurate. Most chiller plant optimization techniques have relatively static logic that is hard coded into the existing BAS, or a black box solution that addresses only the chiller plant side of the equation. Something unique about LOBOS is that it addresses both the chiller plant and the air handling side, creating energy savings and DR capacity by maintaining a dynamic, sophisticated balance between system resources and occupant loads.

The typical definition of RCx includes "…low or no cost measures that re-establish the original design performance of the system," and LOBOS is anything but that. A LOBOS project requires capital for the software, hardware, commissioning, and system prerequisites like VSD's and instrumentation. LOBOS will also create system efficiency and performance far beyond the original system design, so the RCx label doesn't fit. I prefer to think of a LOBOS deployment as DCx (Dynamic retro-Commissioning) to make the distinction.

Scot Duncan P.E., Enerliance Founder

New Levels of HVAC Intelligence

LOBOS brings never before seen levels of intelligent, efficient operation to commercial comfort systems. Before LOBOS, the basic operation of large-scale commercial HVAC systems hadn't changed in decades. Even with more efficient motors, pumps & drives and the addition of digital controls, HVAC systems being installed in 2012 operate pretty much the same way they did in 1972.

LOBOS changes that.

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