

ISO Containers Are NOT a **Good Data Center Solution**

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Data Center Facility













The Foundation of my Passion









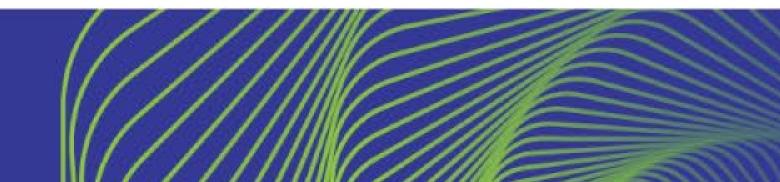




Our Experience With ISO Containers











Our Experience With ISO Containers











The Modular Data Center Goals











Improved Deployment Speed



Higher Quality

More Flexible



ISO Container Expectations





Ready







Transportation

Savings



ISO Container Expectations



Ready

*after significant modification Transportation *compromises included









DATA CENTER FACILITIES

Savings

*on the enclosure only















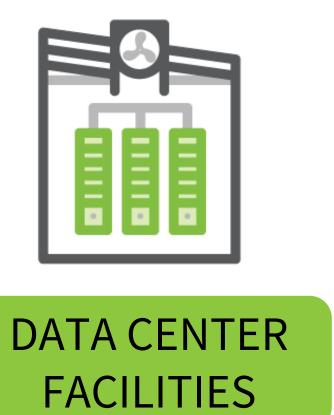
















International Energy Conservation Code (IECC)

ASHRAE 90.1 *conditioned space requires compliance











Equipment

- Physical Limitations
- NEC
- NFPA
- Cabling Restrictions
- Raised Floor











Transportation











Transportation

Now its ready, but how much will you save?













Shipping Cost Comparison

















VS.













Transportation

- Built to be moved, not used.
- Mobility is not worth the compromise in **most** applications.

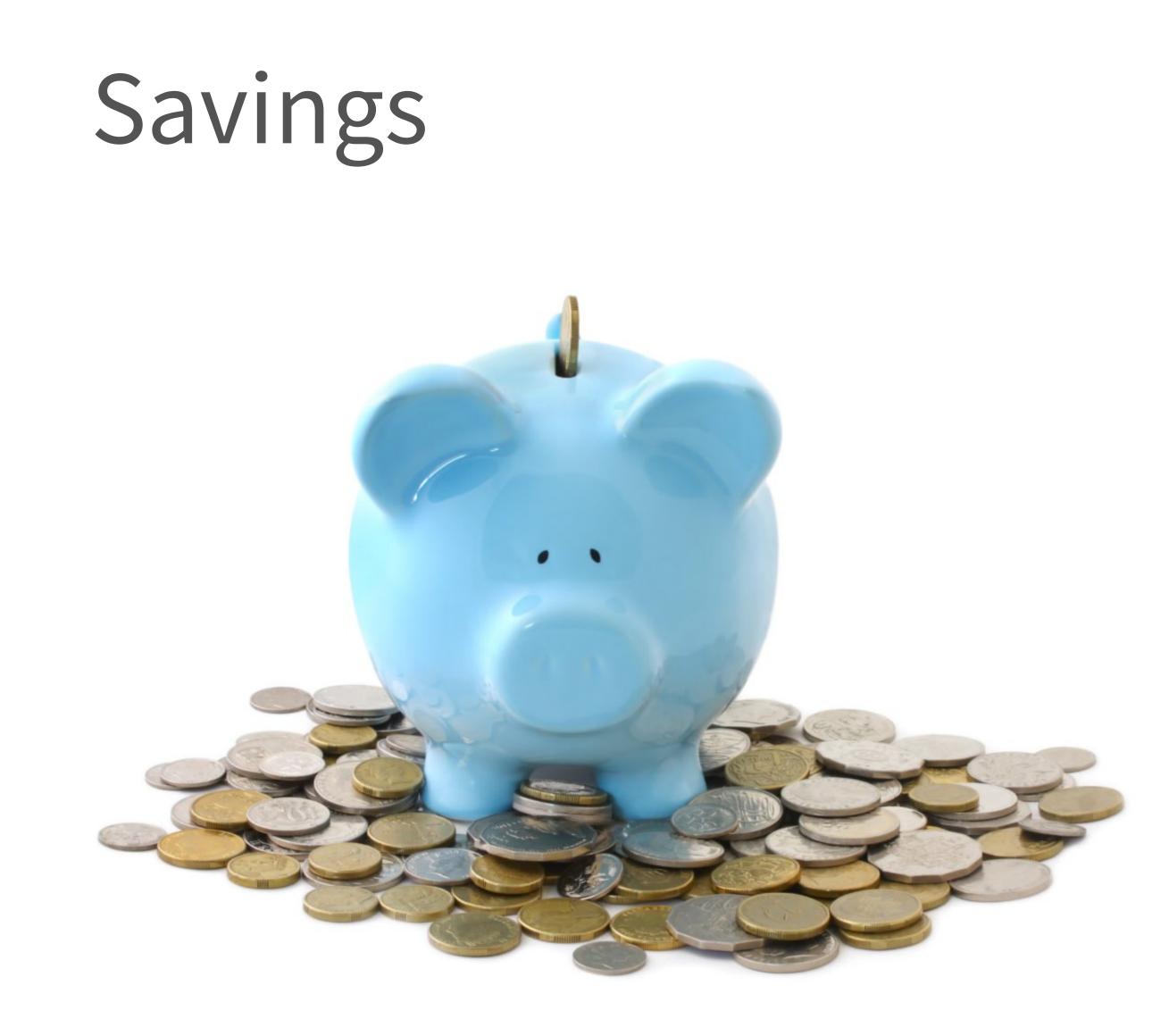




















DATA CENTER FACILITIES





Recycling













How Much Are The Walls?

Walls 8%

Integration 14%

House Equipment 22%



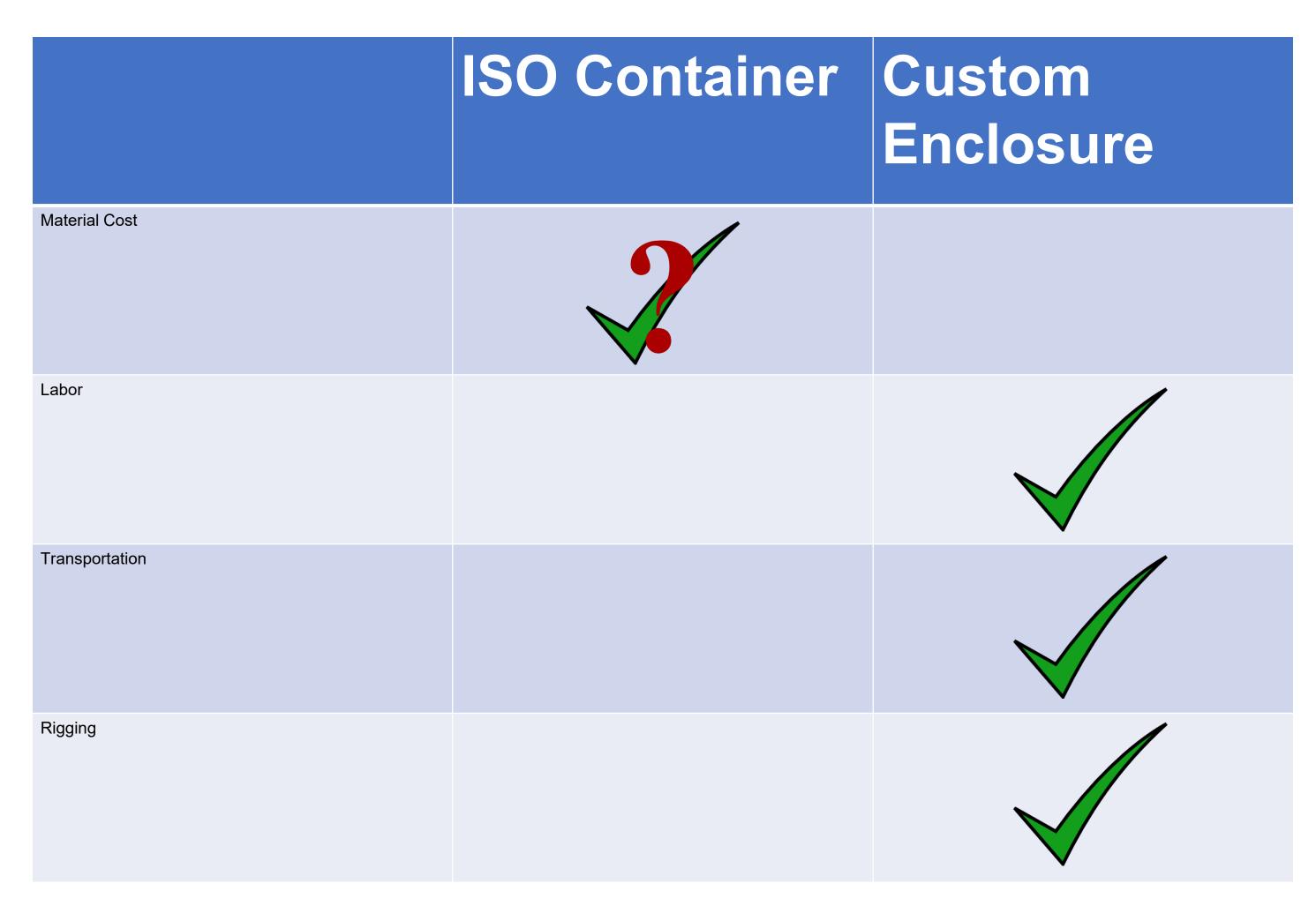




IT Equipment 56%



Cost Comparison











ISO Container Expectations





Ready Just not for a data center environment

Transportation Efficiencies not yet found







Savings Upfront wall savings do not offset the solution



Custom MDC

INTENT INFORMS DESIGN









Custom MDC

- Manufacturing process is optimized for the contents
- End user savings
- Can evolve for OCP components









Custom MDC

Next steps:

- 1.) Specification Approved (90kw and 300kw)
- 2.) Product
- 3.) Evaluation and Improvement













https://www.opencompute.org/wiki/Data_Center_Facility/MDC

Mailing List https://ocp-all.groups.io/g/OCP-MDC

This project meets on the 1st, 2nd, and 4th Wednesday of every month.

https://www.opencompute.org/projects/data-center-facility

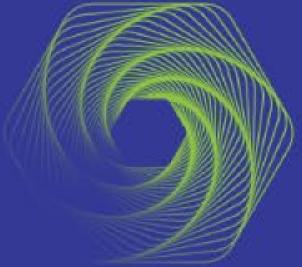
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Join Us!



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