Open. Together.
ISO Containers Are NOT a Good Data Center Solution

Rob Coyle, Director of Sales, PCX Corporation
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
- Savings *on the enclosure only
Ready?
Ready?
International Energy Conservation Code (IECC)

ASHRAE 90.1
*conditioned space requires compliance
Equipment

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

Now it's ready, but how much will you save?
Shipping Cost Comparison

DATA CENTER

FACILITIES

vs.

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Transportation

- Built to be moved, not used.

- Mobility is not worth the compromise in most applications.
Savings
Recycling
How Much Are The Walls?

- IT Equipment: 56%
- House Equipment: 22%
- Integration: 14%
- Walls: 8%
## Cost Comparison

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<tr>
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<th>ISO Container</th>
<th>Custom Enclosure</th>
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<tbody>
<tr>
<td>Material Cost</td>
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<td>Labor</td>
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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

DATA CENTER
FACILITIES
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
Join Us!

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

Contact me to get involved
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