State Data Center Infrastructure Upgrades

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State Data Center Background

The State Data Center has provided Information Technology infrastructure to state agencies and local government since January 2007. In order to limit the initial capital outlay, the design of the SDC facility was such that the core mechanical infrastructure (generators, electrical switchgear, cooling infrastructure) of the building was deployed at ***50% of its' total capability****, with the intent to double that capacity to accommodate increasing demand.*

The original 11 Computing and Network Infrastructure Consolidation (CNIC) agencies' workload, quickly utilized available capacity and the customer demand to date for data center service has only been met by aggressive consolidation, virtualization and modernization of the computing environment within the SDC. The infrastructure of the state data center has reached the ***limits of its initial capacity.***

State Data Center Infrastructure Upgrades Project Update

State Data Center Infrastructure Upgrades

The one-time capital costs of $17,782,000 will upgrade major electrical and mechanical components making possible the thorough utilization of the existing Data Center.

- Hot/cold aisle containment will significantly reduce energy footprint
- Data Center capabilities will be increased to enable colocation
- Consolidate widely distributed and inefficient server rooms

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Achieving the proposed schedule below is conditional upon the approval of requested funding:

• **E-board approval of an additional $6.8M**	**12/14/2018**
• Execute EWA (Long Lead Elect./Mech. Equipment)	12/15/2018
• Elect./Mech. Equipment Begins to Arrive at Jobsite	02/20/2019
• Contractor Mobilization and Construction Start	03/01/2019
• Infrastructure Installation Complete	11/30/2019
• Infrastructure Commissioning Complete	12/30/2019
• Project Substantial Completion	12/30/2019
• Project Final Completion	02/13/2020

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Description	Required Funding
CM/GC's Pre-Construction Fee	$49,644
CM/GC's Estimated Cost of Work	$12,248,700
Alternate - 3rd Chiller	$400,000
Power Monitoring Front End	$150,000
General Conditions	$546,254
All Risk Insurance	$76,108
Contractor Bond/Sub Bond Program	$349,934
Design Contingency	$639,748
Contruction Contingency	$403,041
CM/GC's Sub-Total	$14,863,429
3.95% Fee	$585,145
CM/GC's GMP	$15,448,574
State's Contingency (~5%)	$772,234
Plan Check/Permits	$150,000
Architect/Engineer	$990,900
Commission/Test	$56,000
EAM/PCM Fee	$330,000
DOJ	$19,292
SEED	$15,000
Total	$17,782,000
Approved Funding	$11,000,000
Requested Additional Funding	$6,782,000

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State Data Center Infrastructure Upgrades
Why Colocation?

Non-SDC “Datacenters”

IT infrastructure management

Colocation Services

Utilization of a State asset and the only purpose built data center in State Government

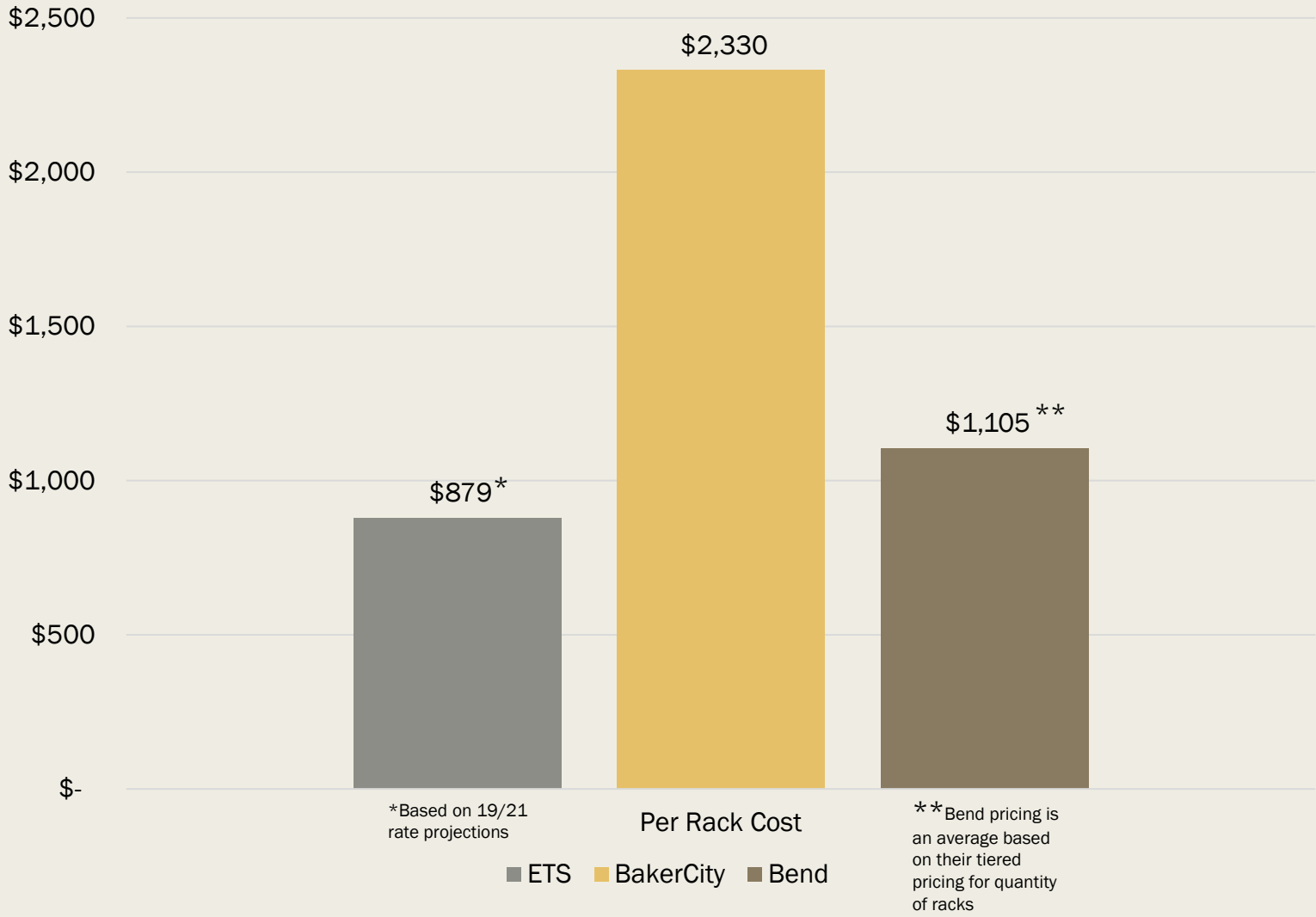
- **Space**
- **Power**
- **Cooling**
- **Fire Protection**
- **Networking**
- **Physical Security**

Why Colocation Services?

- **Existing Agency Data Center has become outdated – cost avoidance of replacement infrastructure**
- **Unanticipated loss of data center space**
- **Realize advantages in utilizing purpose built Data Center**
- **Ability to reclaim agency data center space for other agency needs**

Rate Comparison of Colocation

Cost per rack/per month



Questions?

Thank you!