

Integrating Sustainability into Major Capital Projects

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Solutions that move you



NORTH
87

Santa Clara St San Carlos St
Julian St Auzerals Ave

Overview of VTA

- VTA manages \$1.2 billion capital program
- VTA delivers bus, rail, facility, highway, and other multimodal transportation projects
- VTA is completing the \$2.3 billion BART Silicon Valley Berryessa Extension Project
- Sustainability is one of VTA's core values

Opportunities & Challenges

Opportunities

- Community expects projects to be as sustainable as possible
- Sustainability reduces operating and maintenance costs

Challenges

- Budget and schedule can dictate strict adherence to business as usual and legal requirements
- Organizational silos can create communication & coordination barriers
- Contractors can make it difficult to implement sustainable construction practices

Eastridge Transit Center Improvement Project



- Originally built in 1986
- Second busiest transit center
- Desperately in need of improvement

Eastridge Transit Center Improvement Project



- Project Manager involved Sustainability Program from the beginning
- Project Manager initiated a Sustainable Opportunities Study
- Design and specifications included sustainability wherever reasonable and feasible

BART Silicon Valley Berryessa Extension Project



- Extends BART System 10 miles to Santa Clara County
- Two Stations:
 - Milpitas
 - Berryessa (east San Jose)
- Design Build and Design, Bid Build Delivery Contract
- Construction: 2012-2015
- Passenger Service: 2017

BART Silicon Valley Berryessa Extension Project



- Design/Builder required to:
 - Prepare a sustainability plan
 - Hire a sustainability coordinator
 - Submit quarterly reports
- Met requirements but not enough financial incentives to exceed requirements
- Different design and construction model and team made communication and coordination difficult

Eastridge Paratransit Administrative Offices



- Previously an automotive repair facility and dialysis center
- Remodeling building as an office for VTA paratransit program
- Extremely tight schedule and limited budget
- Not subject to city building code or inspections

Eastridge Paratransit Administration Offices



- Sustainability Program provided project team with a list of green building measures
- Budget and schedule made incorporating measures very difficult
- Good relationships with project management provided some opportunities for sustainability

Lessons Learned

- Green Building Policy is fundamental to incorporating sustainability in major capital projects
- Sustainability needs to be a core value of the organizational culture
- Financial incentives may be needed to ensure implementation of sustainability by third parties
- Sustainability needs a constant champion