

Tall Tales: Green Buildings at Ft. Lewis

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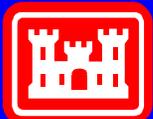
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Federal Environmental Symposium - West

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Big Sky, Montana



Ft. Lewis Sustainability Goals

Air Quality:

1. Reduce installation stationary source and non-tactical motor vehicle air emissions 85% by 2025

Energy

2. Reduce total energy consumption by 30% by 2015
3. Sustain all activities on post using renewable energy sources and generate all electricity on post by 2025

Sustainable Community

4. Create sustainable neighborhoods for a livable Fort Lewis community that enhances the Puget Sound Region



Products and Materials

5. Cycle all material use to achieve zero net waste by 2025

Sustainable Training Lands

6. Maintain the ability of Fort Lewis to meet its current and future military missions without compromising the integrity of natural and cultural resources, both on the installation and regionally
7. Recover all listed and candidate federal species in the South Puget Sound Region

Water Resources

8. Treat all wastewaters to Class A reclaim standards by 2025 to conserve water resources and improve Puget Sound water quality

Comparison Projects



FY04 Barracks



FY06 Barracks

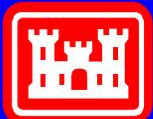


FY05 Company Building



Comparison Projects

| | | |
|--------------------------------------|-----------------------------|--------------------------|
| FY04 WHOLE BARRACKS RENEWAL | FY05 WHOLE BARRACKS RENEWAL | FY06 JACKSON AVE PROJECT |
| DESIGN-BUILD | DESIGN-BID-BUILD | DESIGN-BID-BUILD |
| 200 PERSON BARRACKS | COMPANY OPERATIONS FACILITY | 300 PERSON BARRACKS |
| LEED CERTIFIED/SILVER (30/37 POINTS) | LEED SILVER (35 POINTS) | LEED GOLD (39 POINTS) |
| \$184/sq. ft. | \$221/sq. ft. | \$235/sq. ft. |

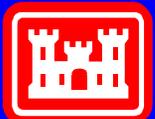


LEED Project Timeline

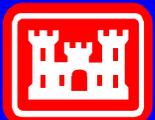
- FY04 Barracks
 - RFP required proposals to achieve LEED Silver
 - Specifications
 - Materials
 - Documentation
 - Project is currently being reviewed by USGBC, borderline Certified/Silver
- FY05 Company Buildings
 - Designed to LEED Gold (42)
 - Specifications
 - Materials
 - Documentation
 - Construction completion is at Silver (35)
- FY06 Jackson Ave Barracks
 - Designed to LEED Gold (43)
 - Design/Specifications
 - Materials
 - Construction completion is at Gold (39)



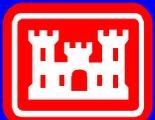
FY04 Barracks



FY05 Company Buildings

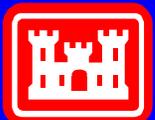


Sustainable Sites

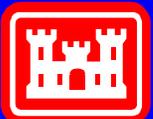


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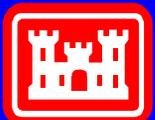
Water Efficiency



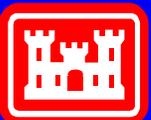
Recycled Content



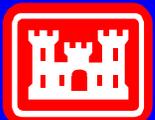
Local/Regional Materials



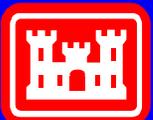
Low Emitting Materials



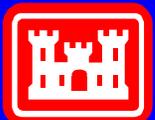
Controllability of Systems



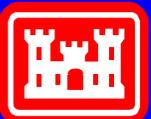
Daylight and Views



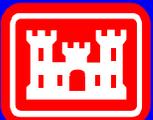
Daylight and Views



FY06 Jackson Avenue Barracks



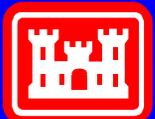
FY06 Jackson Avenue Barracks

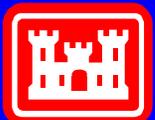


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Lessons Learned

- Strong contract language
- Education
 - Contractor
 - Government
 - User
- Committed team
- Documentation





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Thank you!