

Advisory Group Efforts

Accomplishments

- Reviewed international green roof incentive and credit policies
- Established an Austin green roof database
- Documented existing City of Austin policies and incentives which encourage green roofs
- Analyzed potential policies that could be developed to encourage green roofs

Accomplishments

- Advocated for green roofs as a Public Benefit Option on the Downtown Density Bonus Plan
- Supported the inclusion of green roof policy and benefit education on a City of Austin website
- Developed a proposal for green roof monitoring research
- Advocated for an increase in Austin Energy green roof rebates
- Developed Five-Year Policy Implementation Plan

Advisory Group Efforts

Environmental Board

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Advisory Group Efforts

Accomplishments

- Initiated a framework for green roof design considerations
- Organized a public seminar on green roof water retention modeling
- Provided an outreach seminar to solicit public feedback
- Integrated principles from Water Conservation 2020: Strategic Recommendations
- Developed the reports to present to selected Boards and Commissions and the City Council

Green Roof Policy Development

Phase 1: Introduction and Awareness

Phase 2: Community Engagement

Phase 3: Action Plan Development and Implementation

Phase 4: Technical Research

Phase 5: Program and Policy Development

Phase 6: Continuous Improvement

y Findings Conclusion

Source - Green Roofs: A Resource Manual for Municipal Policy Makers

Key Findings and Conclusion

Incentives and Credits

- Zoning
- Energy Conservation, Air Quality, and Climate Protection
- Watershed Protection
- Financial Incentives

Zoning - Existing

- Green roofs for Planned Unit Developments (PUDs)
- Green roofs for PUD Green Building
- Green roofs for creative/innovative environmental PUDs
- Green roofs as open space for multifamily and commercial projects
- Green roofs over subsurface parking garages
- Green roof parks

Incentives and Credits

Zoning - Potential Options

- Downtown Density Bonus
- Other density bonus options (e.g., North Burnet-Gateway)
- · Increased building cover credit
- Green roofs on all new Central Business District buildings

Energy Conservation, Air Quality, & Climate Protection

- Urban Heat Island & Air Quality mitigation
- Energy rebates
- · Green roofs equivalent to cool roofs

Incentives and Credits

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Watershed Protection

- Green roofs for flood control
- Water quality control research needed
- Existing green roof options for water quality
- Not ready to count green roofs as "pervious" cover
- Less runoff allowing smaller water quality controls
- Drainage fee reduction

Financial Incentives

Portland

• 100% discount of site fee or 35% of total stormwater discharge fee

Chicago

 Up to \$5000 to residential and small commercial projects

Toronto

 Incentive of \$50 per square meter, up to a maximum of \$100,000

Incentives and Credits

Research and Monitoring







Key Findings and Conclusions

Design and Performance Considerations

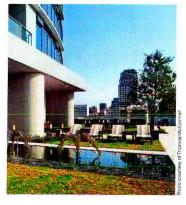
- Size
- Soil Depth and Mulch
- Plant Cover and Variety
- Water Use
- Drainage
- Integrated Pest Management (IPM)
- Visibility and Access
- Maintenance Requirements

Key Findings and Conclusions

Water Conservation and Green Roofs



Dell Children's Medical Center Reclaimed Water for Irrigation



HVAC Condensation for Irrigation

The Austonian

Key Findings and Conclusions

Green Roof Density Bonus



Shoal Creek Walk - At least 20,000 sq. ft. of green roof shall be provided

Key Findings and Conclusions

Environmental Board

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Green Roofs on City Buildings



Key Findings and Conclusions

Outreach and Education

- City of Austin Urban Heat Island Mitigation Program will create a green roof educational campaign, including:
 - Website
 - Brochure
 - Presentations



Key Findings and Conclusions

Next Steps

Five-Year Policy Implementation Plan

Short Term

- Multi-departmental issue
- Downtown density bonus
- Performance standards development
- Raise importance of green roof for PUDs
- Initiate building cover ordinance
- Support GR incorporation to City building projects
- Support of GR education/web work

Five-Year Policy Implementation Plan

Mid to Long Term

- Density bonuses for targeted areas
 - North Burnet/Gateway, Airport Blvd, East Riverside, TODs
- Continue financial support of watershed studies
- Explore financial incentives

Next Steps

