Item No. 6a-1-Supp
Date of Meeting: August 4, 2009

Seattle-Tacoma International Airport

A VISION FOR 2014 AND BEYOND

Environmental Strategy Plan 2009





Outline of Presentation

- Development of the Plan
- Organization of the Plan
- Next Steps





Development of the Plan

Broad cross section of staff developed goals and objectives

Considerations:

- Executive direction
- Century Agenda
- Environmental benefit
- Cost benefit analysis





Development of the Plan

Plan is organized into three themes identifying:

- Key environmental indicators
- Goals
- Objectives
- Performance metrics
- Actions and strategies



Moving People and Goods Efficiently



Air Quality and Climate Change Energy Use and Conservation Buildings and Infrastructure



Managing Natural Resources Wisely



Materials Use and Recycling Water Resources and Wildlife



Promoting Sustainable Communities



Noise Education and Integration



Goals

Objectives

Metrics

Structure of Plan

Goal: Electricity Use

Sea-Tac will meet all future load growth through conservation measures and renewable energy.

Goal: Natural Gas Use

Sea-Tac will continue to reduce natural gas consumption per square foot of terminal space through cost-effective conservation and efficiency measures.

Goal: Technology Deployment

Sea-Tac will serve as a leader in identifying and implementing leading-edge technologies and process improvements that reduce energy demand and improve efficiency.





Goals

Objectives

Metrics

Structure of Plan

Goal: Natural Gas Use

Sea-Tac will continue to reduce natural gas consumption per square foot of terminal space through cost-effective conservation and efficiency measures.

Objectives:

- Identify conservation projects through a comprehensive resource efficiency study
- Identify heat recovery opportunities
- Identify internal and external opportunities to fund conservation efforts
- Seek opportunities to displace natural gas use with other more environmentally friendly fuels or technologies
- Maximize boiler efficiency through preventative maintenance



Goals

Objectives

Metrics

Electricity Use (kWh)	2000	2005	2008
Total kWh of electricity used	133,508,734	145 87 3	148,715,000
kWh per passenger	4.70	4.95	4.62

Conservation

Total kWh/yr. of energy saved			46,282,904
-------------------------------	--	--	------------

Renewable Energy

"Green Power" (purchased/				
used as a % of total energy (se)	0%	0%	25%	

Natural Gas Use (Therms)

Total therms used	2,375,219	2,476,400	2,813,851
Therms per passenger	0.083	0.085	0.087
Therms per sq. ft. of terminal	1.03	0.81	0.92





Goals

Objectives

Metrics

Goal 1a: Air Quality

Sea-Tac will improve the overall efficiency of its vehicle fleet 30 percent above 2006 levels by 2015.

Goal 1b: Air Quality

Sea-Tac will continue to work with its business partners to consolidate trips, reduce vehicle miles travelled, and promote clean vehicles from taxis, shuttles, buses, construction vehicles, service equipment, and ground support equipment.

Goal 2: Greenhouse Gas Emissions

Sea-Tac will reduce airport owned and controlled greenhouse gas emissions by 15% below 2005 levels by 2020.

Goal 3: Transportation

Sea-Tac will increase the average occupancy of passenger vehicles accessing the airport from 2.6 in 2009 to 3.6 in 2015.

Goal 4: Adaptation Planning

Sea-Tac will complete a risk analysis of potential climate change impacts and implications for the airport, and develop a strategy plan for avoiding/mitigating risks.



Goals

Objectives

Metrics

Goal 5: Electricity Use

Sea-Tac will meet all future load growth through conservation measures and renewable energy.

Goal 6: Natural Gas Use

Sea-Tac will continue to reduce natural gas consumption per square foot of terminal space through cost-effective conservation and efficiency measures.

Goal 7: Technology Deployment

Sea-Tac will serve as a leader in identifying and implementing leading-edge technologies and process improvements that reduce energy demand and improve efficiency.





Building and Infrastructure

Goals

Objectives

Metrics

Goal 8: Sustainable Buildings

Sea-Tac will integrate LEED™ or other "green" building performance measures into all projects.

Goal 9: Asset Management

Sea-Tac will continue to improve its asset management practices in a manner that minimizes the total cost of owning and operating facilities and maximizes environmentally-sustainable development.



Materials Use and Recycling

Goals

Objectives

Metrics

Goal 10: Recycling

Sea-Tac will increase the solid waste recycling rate from the current 21% in 2008 to 50% by 2014.

Goal 11: Construction Debris

Sea-Tac will implement best management practices that reduce construction, demolition and land clearing debris generated by the airport and its contractors.

Goal 12: Hazardous Materials and Waste

Sea-Tac will continue to reduce its use of hazardous materials and the generation of hazardous wastes.

Goal 13: Environmentally Preferable Products

Sea-Tac will increase the use of green products throughout the organization by implementing a robust environmental purchasing program.



Water Resources and Wildlife

Goals

Objectives

Metrics

Goal 14: Water Quality

Sea-Tac will achieve and maintain Best Management Practices for water quality treatment and flow control over 100% of airport industrial areas.

Goal 15: Wildlife Habitat

Sea-Tac will identify and implement actions to: (a) improve wildlife habitat and protections for native species not in conflict with aviation safety, and (b) develop biologically sound approaches for managing hazardous wildlife in the context of reducing the need for direct control actions such as scare devices (e.g., pyrotechnics).

Goal 16: Water Conservation

Sea-Tac will reduce the potable water consumption rate 5% below 2008 levels by 2015.



Goals

Objectives

Metrics

Goal 17: Noise Mitigation

Sea-Tac will complete Part 150 update including FAA review and approval by the end of 2011.



Education and Integration

Goals

Objectives

Metrics

Goal 18: Education and Community Outreach

Sea-Tac will institute an environmental education campaign to promote environmental stewardship and raise awareness of airport environmental and sustainability initiatives

Goal 19: Integration

Sea-Tac will integrate environmental and sustainability considerations into core business operations

Goal 20: Working with Business Partners

Sea-Tac will work with its business partners to extend environmental and sustainability initiatives beyond its own operations.





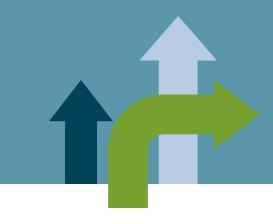






- Communicate the vision and goals
- Set priorities and allocate planning resources
 - No costs associated with plan at this time
 - Each project/strategy must undergo individual cost benefit and obtain necessary Port Commission approvals
- Create accountability structures
- Annual reporting





Acknowledgements

The authors would like to thank the following people for their assistance with the development of this plan.

Tony Baca

Harold Brende

Eric Drenckpohl

Bob Duffner

Trevor Emtman

Michael Feldman

Frank Gonzalez

Paul Grace

Frank Irlanda

Elizabeth Leavitt

Michael Lufkin

Stuart Mathews

Steve Osmek

Bob Riley

Steve Rybolt

Dave Tomber

Russ Simonson

Marlys St. Laurent

Mary Todd

Bob York

Deanna Zachrisson





Questions

Elizabeth Leavitt

Director, Aviation Planning and Environmental Leavitt.E@portseattle.org (206) 787-7203

Mike Lufkin

Senior Environmental Strategy Manager, Aviation Lufkin.M@portseattle.org (206) 787-5605

