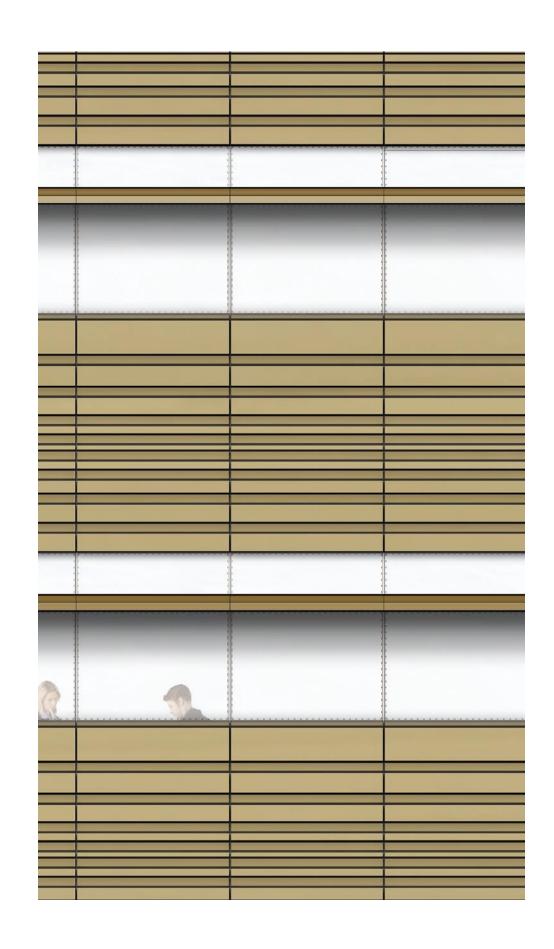
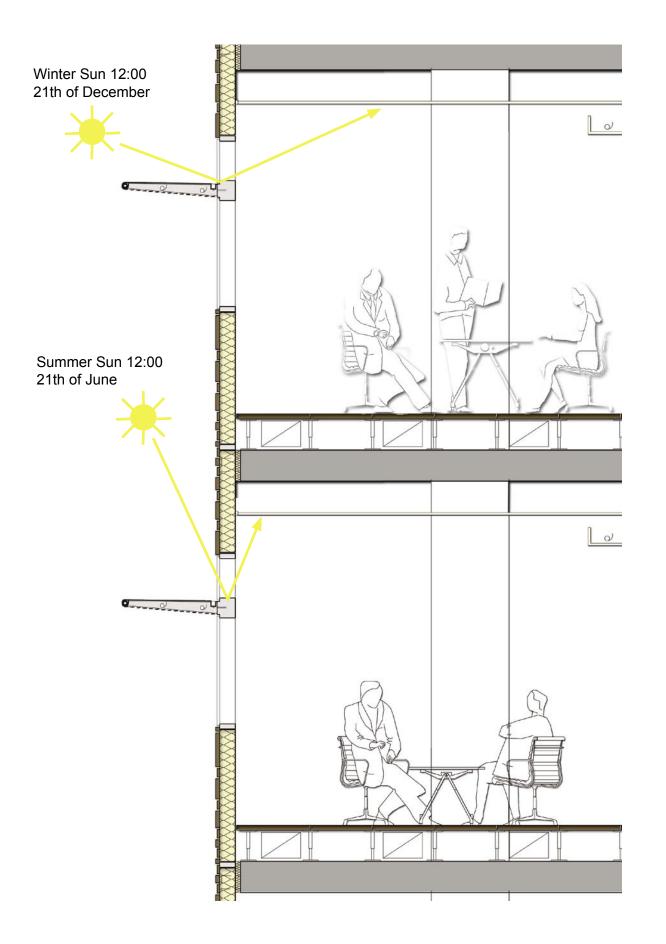
Facade Details

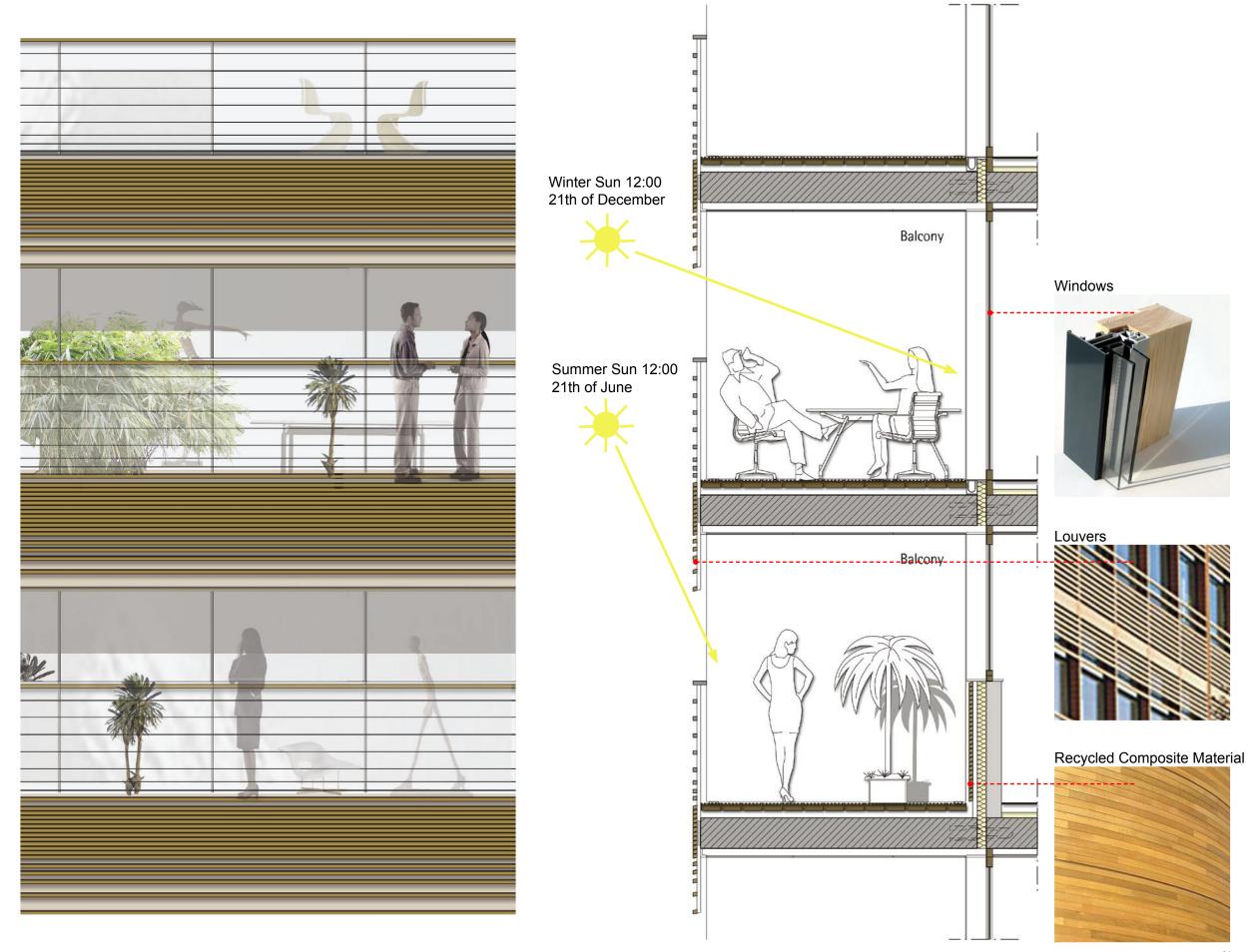
Office





Facade Details

Residential



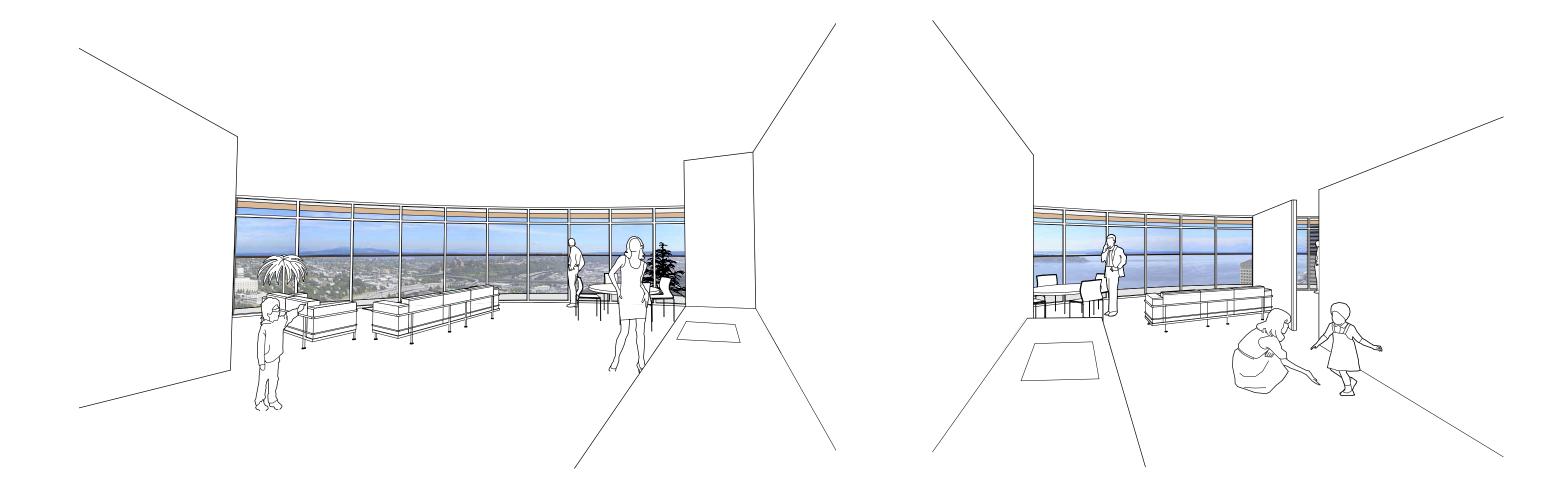
Office Tower

View from Typical Office Floor



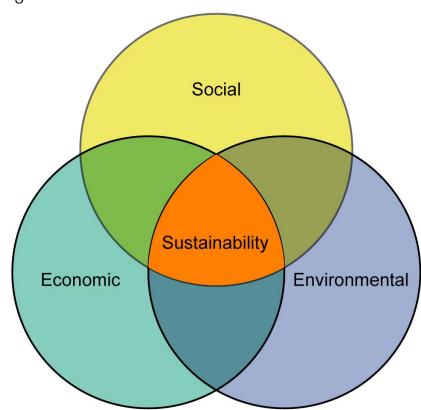
Residential Tower

Views from Typical Residential Units



Sustainability

Design Focus Areas and Process



The Triple Bottom Line



Energy Strategy



Water Conservation and Recycling



Indoor Environment



Site and Microclimate



Waste Reduction



Landscape and Habitat



Urban Activation



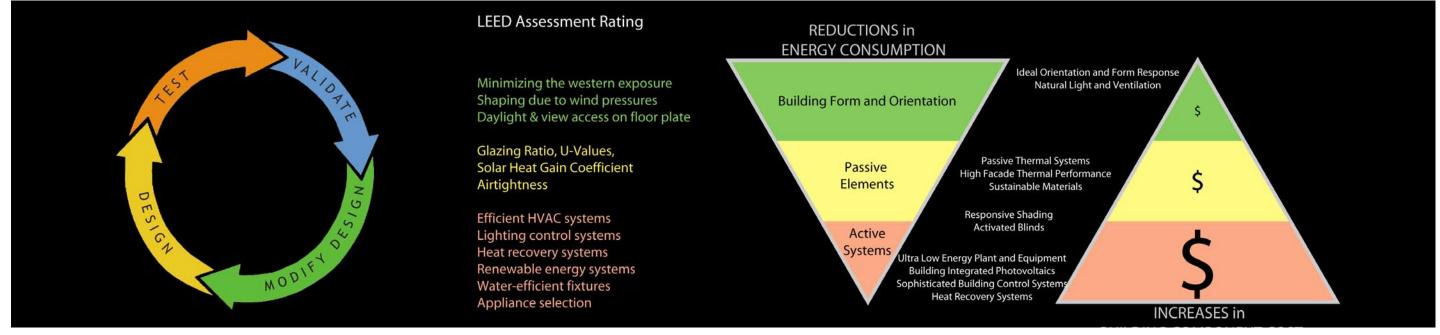
Transportation Alternatives



Sustainability Education and Public Art

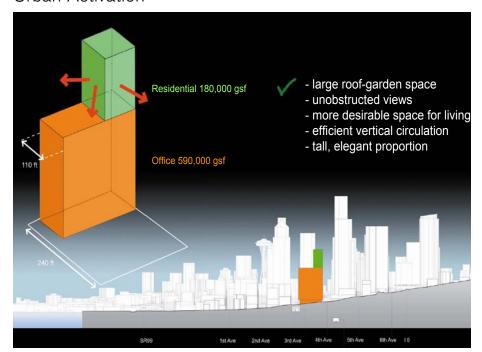


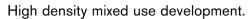
Sustainability Achievements



Targets and the Design Process

Urban Activation





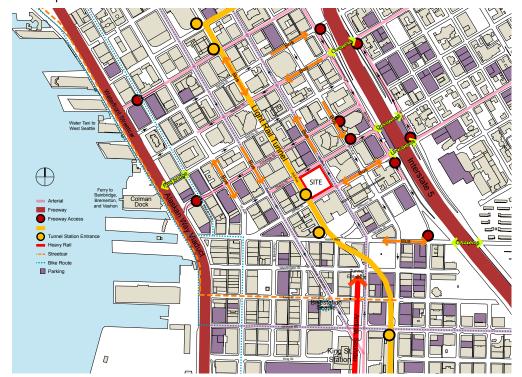




Living, working and recreation in one development. Civic gathering space at the heart of the city.

Sustainability Concepts

Transportation Alternatives



Location well connected to public transport.



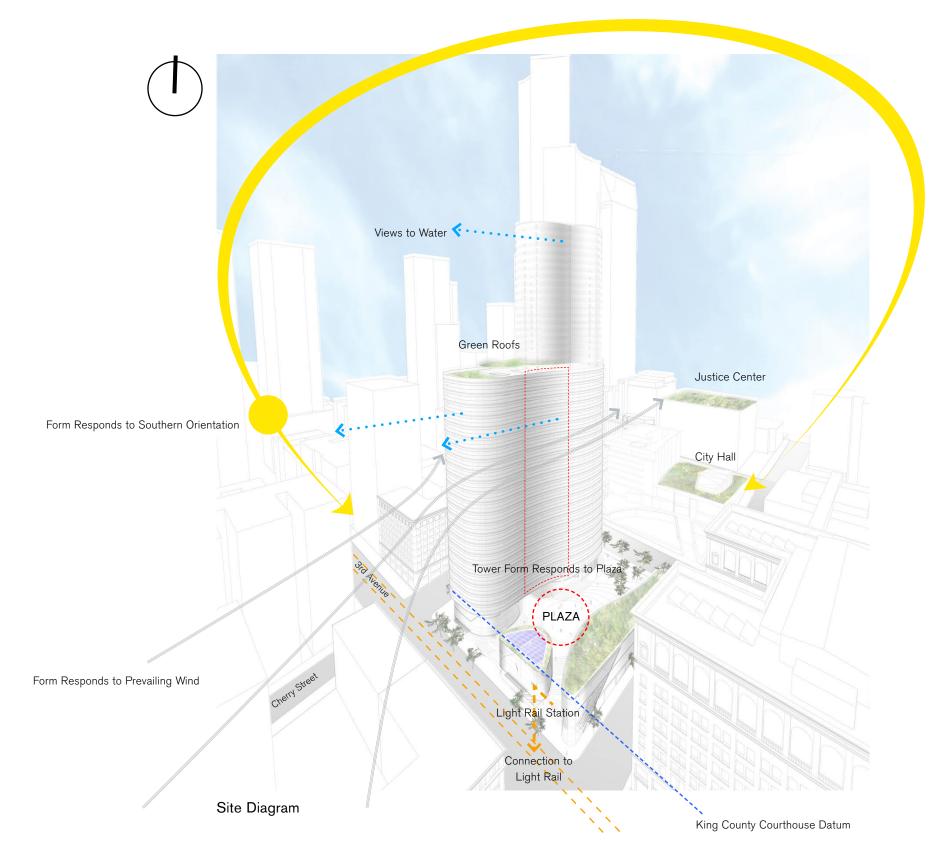
Metro connection to site.

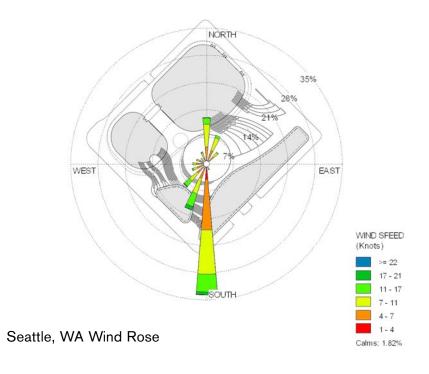


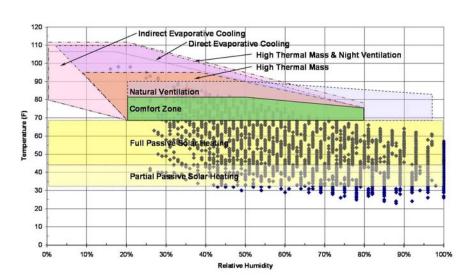
Bicycle and pedestrian friendly.

Site and Microclimate

City Comment A-1







Seattle, WA Bioclimatic Chart

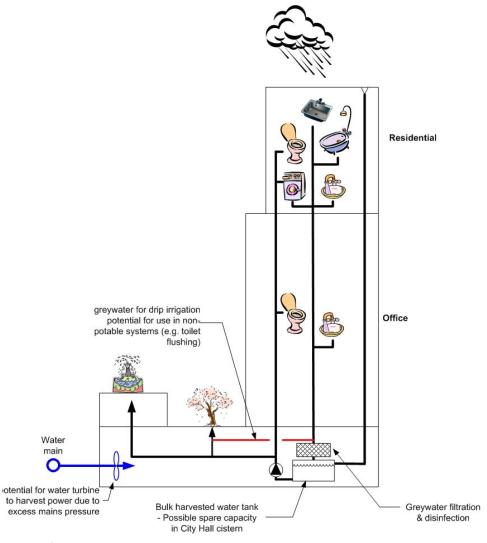
Landscape and Habitat





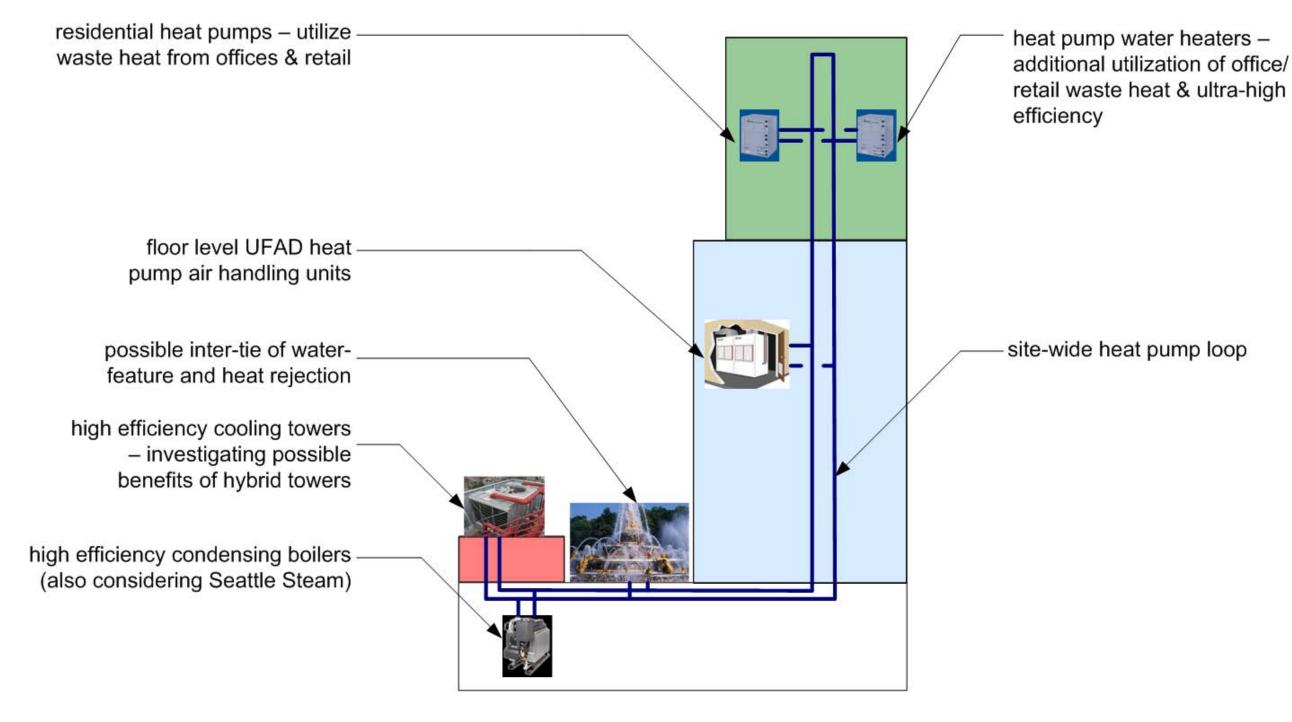
Green Roof References

WATER INFLOW Sustainability Concepts Water Conservation Strategy COLLECTION **STORMWATER BY GREEN ROOFS** 70% INTENSIVE GREEN ROOF **SUPPLY TO BUILDINGS FOR TOILET FLUSHING AND** IRRIGATION CLEANSING BIOTOPE INTENSIVE GREEN ROOF EXTENSIVE GREEN ROOF WITH PV FARM **CISTERN DETENTION** STORMWATER 2 **REUSE FOR TOILET FLUSH,** IRRIGATION, **WATER FOR ENVIRONMENT** Conceptual Sketch



Water Collection and Distribution Diagram

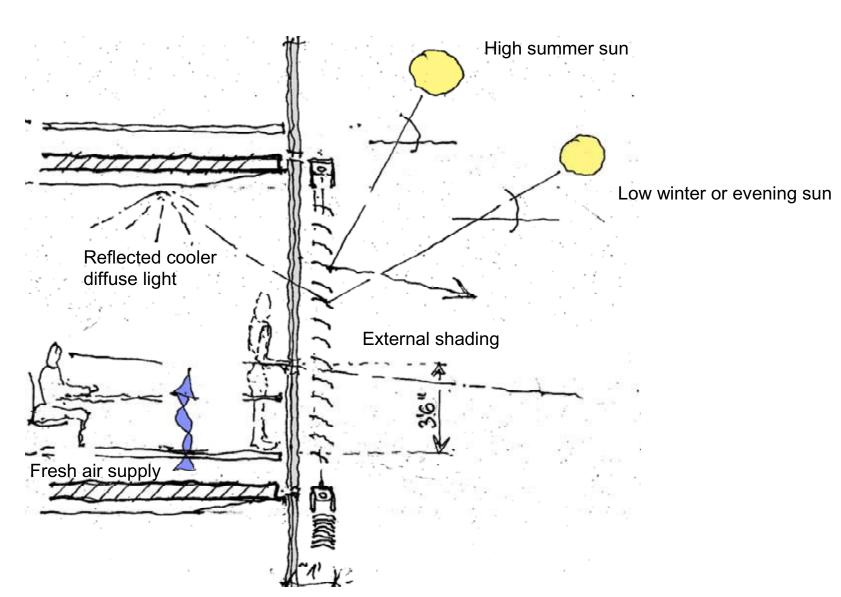
Low Flow Fixt	ures		
Toilets	Low volume gravity tank toilets Low volume pressurized toilets Dual flush toilets Waterless toilets	Offers significant water savings over traditional fixtures Waterless toilets offer almost 100% savings	Aligns with City incentives.
Urinals	Low volume urinals	Offers significant water savings over traditional fixtures Waterless urinals offer almost 100% savings	
Showerheads	Low volume showerheads	Offers significant water savings over traditional fixtures Energy savings can be realized by reduced hot water usage	
Faucets	Low volume kitchen and lavatory faucets, using aeration, flow control or devices Sensor activated faucets Automatic shut-off faucets	Offers significant water savings over traditional fixtures Energy savings can be realized by reduced hot water usage	
Clothes Washers	High efficiency, front loading washers	Offers significant water savings Energy savings can be realized by reduced operational costs and hot water usage	
Dishwashers	Water efficient dishwashers	Offers significant water savings over traditional fixtures Energy savings can be realized by reduced operational costs and hot water usage	

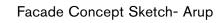


Potential scheme: site-wide heat pump loop

Conceptual Diagram of General Heating and Cooling System

Solar Strategy: Shading















Solar Strategy: Photovoltaics

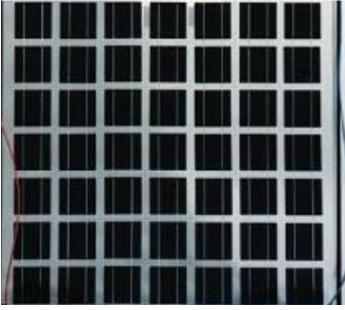






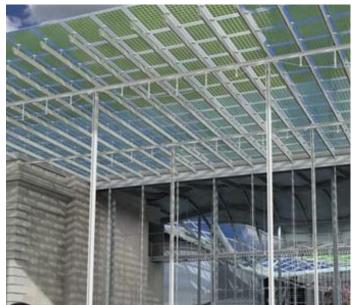












Waste Reduction











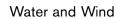
Sustainability Concepts

Sustainability Education and Public Art



Public Education and Art







Sustainability Achievements

Advantages of proposed sustainable development over conventional building

reduced global warming impact and ozone depletion impact

energy savings - 15% or more beyond minimum requirements

water savings - 20-30% or more greater than minimum requirements

reduced urban heat island effect - green roofs and site plantings

dense multi-use development with civic component

alternative commuter options and incentives

better air quality & ventilation

a healthier home environment

daylight & views

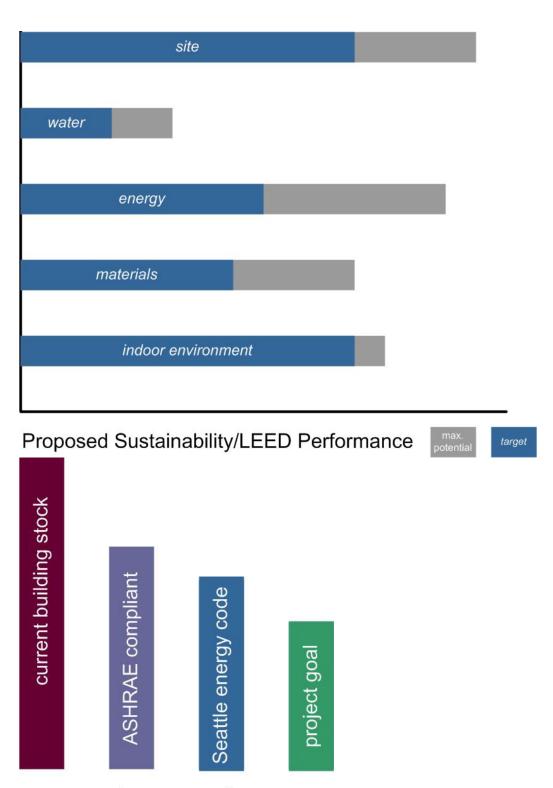
a more productive work environment

healthier & sustainably produced materials

site recycling programs

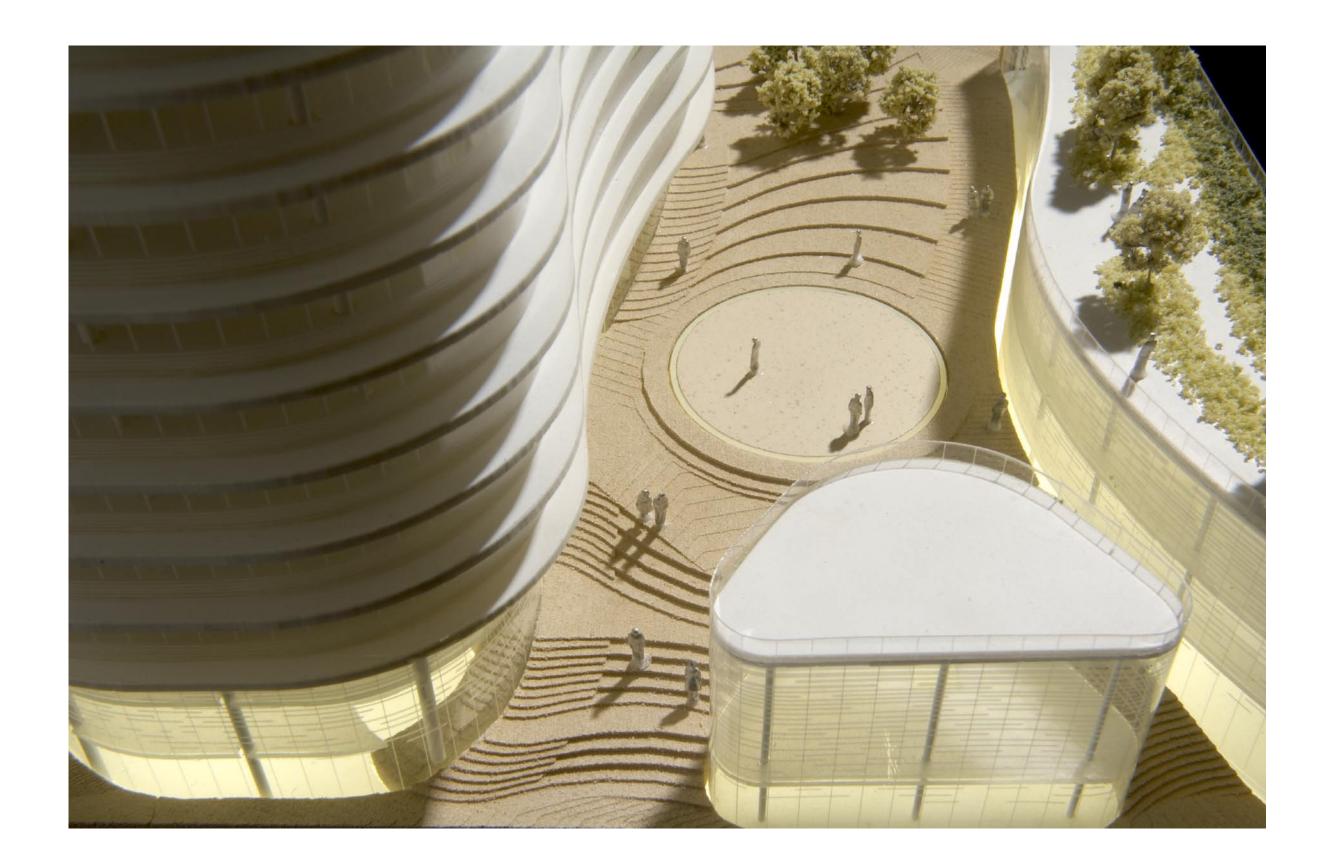
decreased churn costs and material impacts (reduced long term waste)

improved construction practices



53

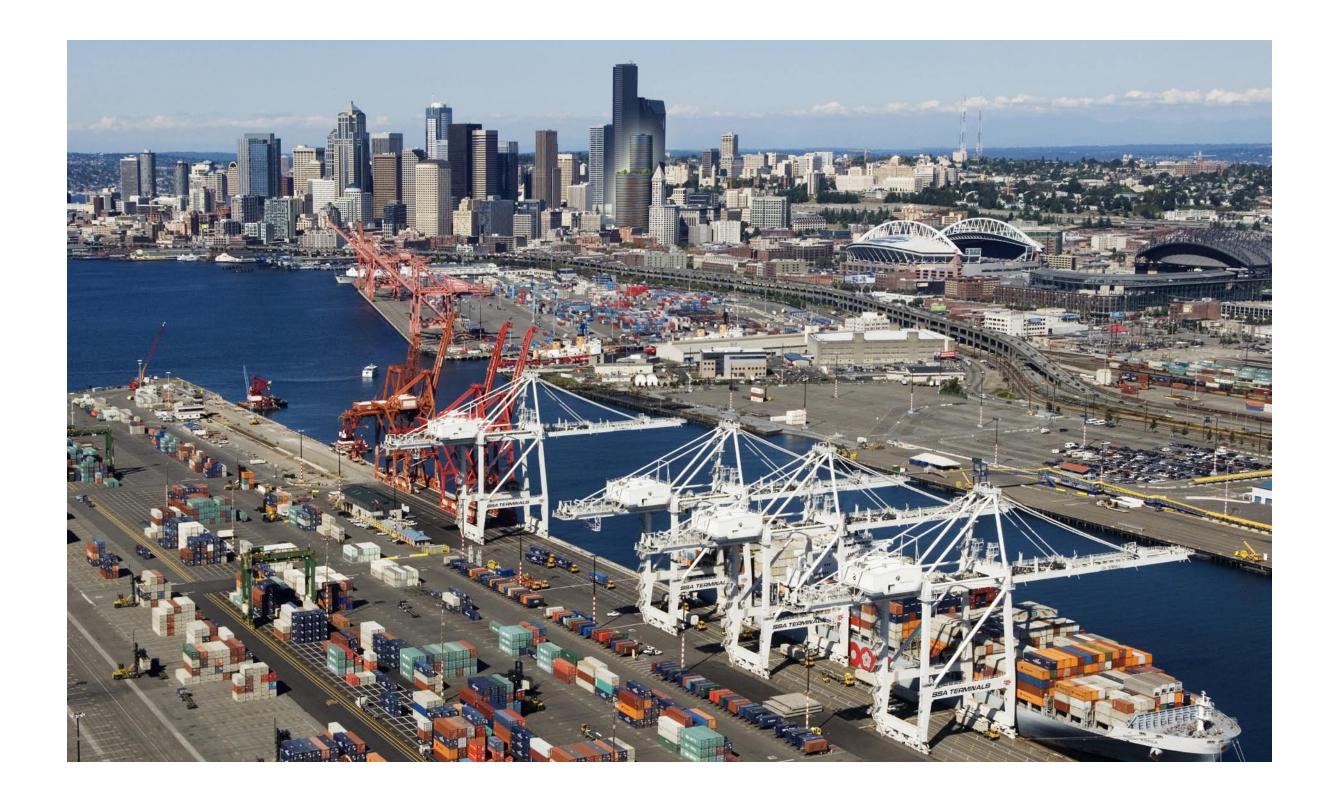
proposed energy performance





Visualisation

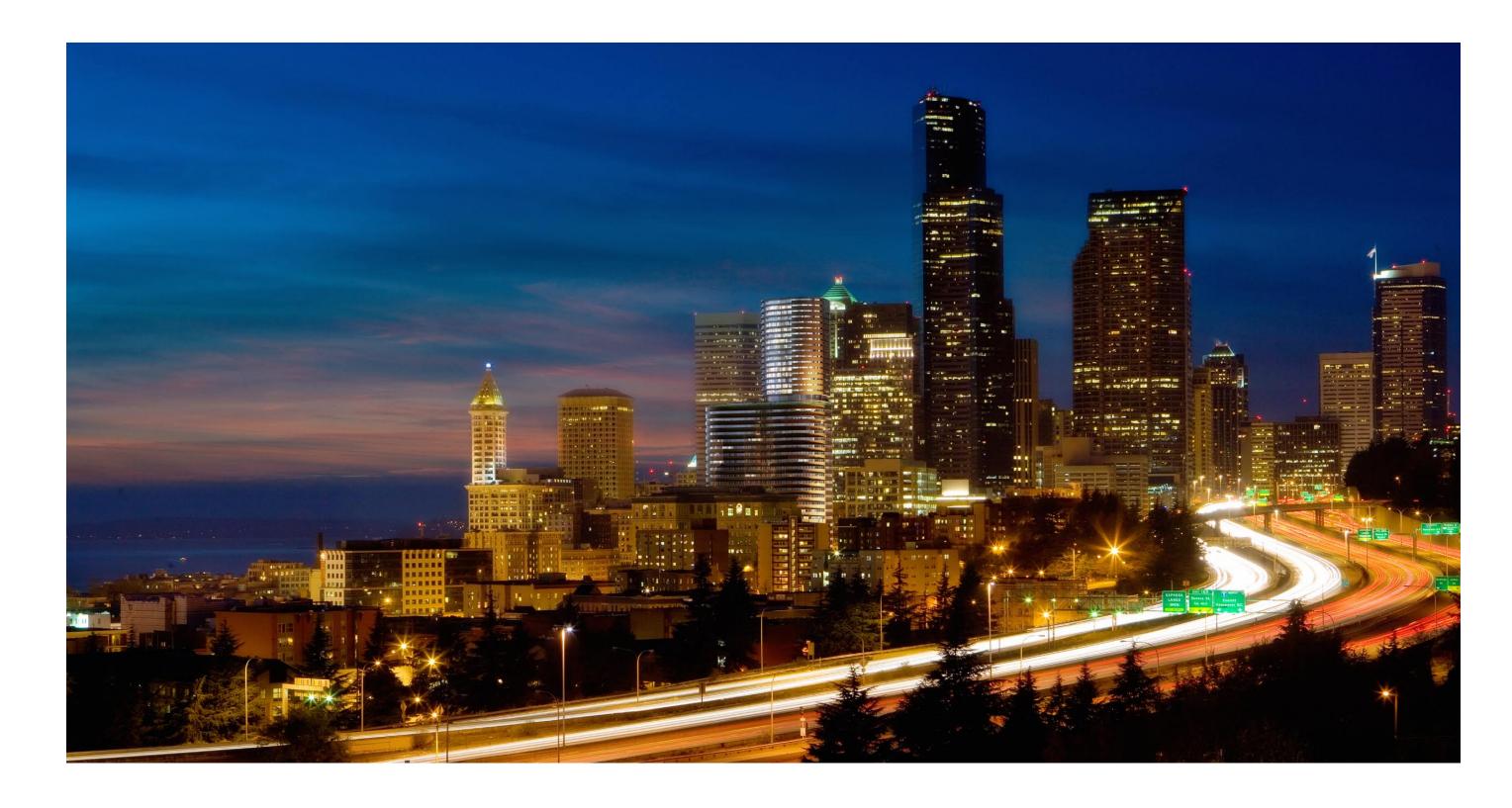
View from Terminal 18



Visualisation

Seattle Skyline at Night

City Comment A2



Visualisation

Seattle Skyline

City Comment A2

