More information can be found in the associated text

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AHERA Target: n/a S.2.1.A Design to avoid bird collisions by using fritted glass, an auto shutoff of night time lighting, or by avoiding highly reflective glass A. Also consider temporary measures, such as netting, bird decals and streamers, in problem areas during migration season. Baseline: n/a Target: √ S.2.1.B Select light colored or open grid paving for pedestrian hardscape B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape		EPA Asbestos Overview	Baseline:	Per NESHAP (National Emission Standard for
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S.2.1.A Design to avoid bird collisions by using fritted glass, an auto shutoff of night time lighting, of by avoiding highly reflective glass A. Also consider temporary measures, such as netting, bird decals and streamers, in problem areas during migration season. Baseline: n/a Target: √ S.2.1.B Select light colored or open grid paving for pedestrian hardscape B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape				
by avoiding highly reflective glass A. Also consider temporary measures, such as netting, bird decals and streamers, in problem areas during migration season. Baseline: n/a Target: √ S.2.1.B Select light colored or open grid paving for pedestrian hardscape B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape		AHERA	Target:	n/a
during migration season. Baseline: n/a Target: √ S.2.1.B Select light colored or open grid paving for pedestrian hardscape B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape	S.2.1.A		-	
Target: √ S.2.1.B Select light colored or open grid paving for pedestrian hardscape B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape				
S.2.1.B Select light colored or open grid paving for pedestrian hardscape B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape				
B. Select paving with an SRI of 29 or higher to reduce heat island effect. Baseline: 30% of hardscape	S.2.1.B			
Baseline: 30% of hardscape				
Target: 50% of hardscape				30% of hardscape
			Target:	50% of hardscape

	IT TOOIKIL Strategies	-	10/1500 5/17
Number	Links	Descrip	tion
S.2.1.C			ade for parking areas using trees, canopies, solar panels, vegetated roof areas or I parking underground
		with an SRI parking area	hrough the use of tree canopies that are established within 5 years, light colored canopies of 29 or higher, structures covered by solar panels, vegetated roof areas, or by locating as underground. The effective shade coverage on the parking area shall be the arithmetic e shade coverage calculated at 10am, noon, and 3pm on the summer solstice.
	Seattle Master Tree List	Baseline:	50% of total parking area
		Target:	80% of total parking area
S.2.2.A		Limit tresp shielded fix	ass of exterior lighting over site boundary and upward into night sky by using xtures
		A. Only light	t areas as required for safety and comfort, suitable for that lighting zone (LZ)
	Dark Sky Friendly Lighting Directory	Baseline:	 Sites in residential areas (LZ1): Design exterior lighting to produce a maximum initial illuminance value no greater than 0.10 horizontal and vertical foot-candles at the site boundary and no greater than 0.01 horizontal foot-candles 10 feet beyond the site boundary. No more than 2% of total initial designed fixture lumens are emitted at an angle of 90 degrees or higher from nadir (straight down). Sites in neighborhood and commercial areas (LZ2) Design exterior lighting to produce a maximum initial illuminance value no greater than 0.20 horizontal and vertical foot-candles at the site boundary and no greater than 0.01 horizontal foot-candles at the site boundary and no greater than 0.01 horizontal foot-candles 15 feet beyond the site boundary. No more than 5% of total initial designed fixture lumens are emitted at an angle of 90 degrees or higher from nadir (straight down). Site in downtown areas (LZ3):Design exterior lighting to produce a maximum initial illuminance value no greater than 0.01 horizontal foot-candles 15 feet beyond the site boundary. No more than 5% of total initial designed fixture lumens are emitted at an angle of 90 degrees or higher from nadir (straight down). Site in downtown areas (LZ3):Design exterior lighting to produce a maximum initial illuminance value no greater than 0.60 horizontal and vertical foot-candles at the site boundary and no greater than 0.01 horizontal foot-candles 15 feet beyond the site boundary. Alternately - source fixtures with the appropriate BUG (Backlight Uplight Glare) rating for the project Light Zone and placement
		Target:	n/a
S.2.3.A		Align build	ings so that major elevations face north and south
		A. Limit eas	st and west exposures.
		Baseline:	North and south facing glazing is at least 50% greater than east and west facing glazing
		Target:	East-west axis of building is within 15 degrees of due east-west
S.2.4.A		Avoid cons	struction within environmentally critical areas
		A. Develop	on appropriate sites.
		Baseline:	Develop on a greenfield site, parkland or agricultural land ONLY when the building's purpose is related to the use of the land. Examples - park shelter on parkland, or agricultural building on
		Target:	Develop only 1) in an existing building envelope 2) on a greyfield or 3) on a brownfield.

Links	Descrip Avoid con	otion struction within 100 ft of a lake, river, stream or wetland buffers
Municipal Code 25.06 Floodplain Development	water ways while the S	attle Municipal Code (SMC) for specific buffer requirements which vary for wetlands and b. The Land use code may require more than 100 foot buffer in some cases. However MC allows averaging of the buffer, this strategy requires no development within 100 feet, ot allow averaging of the buffer.
Municipal Code 25.09 Environmentally Critical	Baseline:	Regardless of code exemption
·	Target:	Do not disturb
	Protect ex	isting trees intended to remain by providing temporary fence
		temporary fence around drip line prior to start of construction.
	Baseline:	
	Target:	n/a
	Select nat	ive or adapted vegetation for landscape
		to S.1.1.F. which is focused on site restoration of existing vegetation and W.4.1.C. which irrigation water reduction.
	Baseline:	50% of landscape area
	Target:	100% of landscape area
	Provide a	green roof.
	A. Provide	a vegetated roof.
	Baseline:	50% of roof area
	Target:	75% of roof area
	Maintain n	o net increase, or decrease quantity of stormwater discharge leaving the site
Stormwater Code	percentile r	no net increase of quantity of storm water discharge leaving the site. Use an 90th ain event as basis for analysis and design. Use rain infiltration features, capture and reus for site conditions and use.
<u>Green Stormwater</u> Infrastructure (SPU)	Baseline:	No increase in storm water.
	Target:	Reduce quantity of storm water leaving the site by 25%.
	Reduce po	otable water use for cooling tower make-up water.
Dept of Energy Cooling Tower BMPs	manageme	potable water use for cooling tower make-up water through improved chemical int and use of nonpotable water (e.g. air handler condensate, single pass cooling system ierly treated greywater or rainwater).
	Baseline:	Install conductivity meter to monitor and manage chemical concentrations to reduce losses due to blowdown/makeup water.
	Target:	More than 25% of make-up water from nonpotable sources
	Install lov	v flow plumbing fixtures
	A. Install lo	w flow plumbing fixtures including lavatory faucets, showerheads and kitchen sink faucet
	Baseline:	Exceed Seattle Plumbing Code with 2.0 gpm kitchen sink and showerhead
	Target:	Exceed Seattle Plumbing Code with 1.75 gpm
	Floodplain Development Municipal Code 25.09 Environmentally Critical	Floodplain Development water ways while the S and does no Municipal Code 25.09 Environmentally Critical Baseline: Target: Protect ex A. Provide Baseline: Target: Select nation B. Similar focuses on Baseline: Target: Select nation B. Similar focuses on Baseline: Target: Select nation B. Similar focuses on Baseline: Target: Stormwater Code B. Achieve percentile r as suitable Green Stormwater Tower BMPs Baseline: Target: Dept of Energy Cooling Tower BMPs A. Reduce por water, prop Baseline: Target: Install low Baseline: Target: A. Install low Baseline:

Capital Green Toolkit: Strategies	
Number Links	Description
W.2.2.B	Install low volume flush fixtures
	B. Install low volume flush fixtures for water closets and urinals.
	Baseline: Exceed Seattle Plumbing Code with dual flush or low flush WC: 1.28 gpf and urinal: 0.5 gpf.
	Target:Exceed Seattle Plumbing Code with dual flush or low flush WC: 1.28/ and urinal: 0.125 gpf
V.2.2.C	Install water efficient commercial food service equipment.
	C. Specify water efficient commercial food service equipment including low flow pre-rinse spray valves and Energy Star rated equipment.
	Baseline: Use pre-rinse spray valves which operate at 1.3 gpm or less; Provide hands free controls for all faucets in the food prep area (including hand wash sinks, pot fillers and washing sinks); Provide Energy Star Rated Commercial Dishwashers and Steam Cookers as required by SEC.
	Target:In addition to baseline if in scope of work: 100% of eligible water using commercial equipment shall be Energy Star Rated (includes Combination Ovens, Ice Machines, and commercial clothes washers).
V.2.3.A	Submeter high water use operations like irrigation or domestic hot water
	A. Provide submeters for high water use operations per code regardless of project size.
	Baseline: Irrigation
	Target:Wet cooling towers, commercial kitchens, laundries, Domestic Hot Water (DHW) boilers
V.3.1.A	Direct stormwater to pervious areas to remove 80% of total suspended solids
	A. Capture and treat stormwater run-off with biofiltration swales, rain gardens or a water quality vaul
	Baseline: $$
	Target: n/a
V.3.2.A	Implement erosion control measures prior to land disturbance
	A. Implement measures per code regardless of project size, including temporary seeding, mulching, earth dike, silt fence, sediment trap or sediment basin . Similar to W.3.2.B. which focuses on maintenance rather than implementation.
	Baseline: $$
	Target: n/a
V.3.2.B	Enforce temporary erosion control measures for duration of construction.
	B. Enforce temporary erosion control measures for duration of construction. Similar to W.3.2.A. whic focuses on implementation rather than maintenance.
	Baseline: $$
	Target:

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Number Links	Description
W.3.2.C	Install permanent vegetation or cover site areas prior to removal of temporary erosion contro measures
	C. Prior to removal of temporary erosion control measures, install permanent vegetation or cover site areas per code regardless of project size.
	Baseline: $$
	Target: n/a
W.3.2.D	Do not use construction materials in roofing or site areas that contribute to waterway contamination via stormwater runoff
	D. Avoid using construction materials such as copper and zinc roof appurtenances, galvanized materials, treated lumber, parking lot coal tar, and pesticides.
	Baseline: $$
	Target: n/a
W.3.3.A	Provide above ground fuel tanks with secondary containment.
	A. Provide above ground tanks with secondary containment.
	Baseline: $$
	Target: n/a
W.3.3.B	Provide leak detection system for tanks and piping
	B. Provide leak detection system with monitors and alarms for tanks and piping (includes fuel tanks)
	Baseline: $$
	Target: n/a
W.3.3.C	Place parking under structure
	C. Place parking under structure with oil/grease separator.
	Baseline: 50% of parking
	Target: 100% of parking
N.4.1.A	Provide high efficiency irrigation
	A. Provide high efficiency irrigation systems such as high efficiency head or drip irrigation to limit water evaporation.
	Baseline: $$
W.4.1.B	Target: n/a Collect rainwater or graywater for irrigation.
	B. Use nonpotable water for irrigation, including onsite rainwater or graywater or municipally supplie
	nonpotable water.
	Baseline:50% of irrigation waterTarget:100% of irrigation water
W.4.1.C	Select plants that are native or adapted to minimize irrigation requirements
	C. Similar to S.1.1.F. which is focused on site restoration of existing vegetation and S.3.1.B. which is intended to promote natural habitat.
	Baseline: 50% of landscape area Target: 100% of landscape area
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Capital Gree

Number W.5.1.A

E.1.1.A

E.1.2.A

E.1.2.B

E.1.3.A

een Toolkit: Strategies		revised 5/7/
r Links	Descrip	otion
	Provide o	n-site wastewater treatment infrastructure
		on-site wastewater treatment infrastructure such as a living machine for wastewater or graywater system for wastewater reuse.
	Baseline:	Below grade piping for graywater
	Target:	Living machine
	Commiss	ion building energy systems.
Seattle Energy Code		Energy Code requires all mechanical work and lighting controls be commissioned. This spands the requirement to include electrical systems.
	Baseline:	Commission all mechanical and electrical work, regardless of project size, to meet the Seattle Energy Code.
	Target:	Increase Cx scope to include peer review of design
		and construction documents, specifications and
		submittals. Cx to participate in operator training and provide post occupancy review between 6-18
		months after occupancy.
	Provide d	emand control ventilation (DCV) to respond to variable occupancy loads.
	A. Provide	demand control ventilation (DCV) to respond to varying occupancy loads.
	Baseline:	Ventilation controls respond to occupancy levels in
		densely occupied spaces (25 people/1000 SF - i.e.
		conference rooms, training rooms, break rooms).
	Target:	Ventilation controls respond to occupancy in any
	0	space with varying occupancy (i.e. open and
		private offices).
	Provide b	uilding automation system
Seattle Energy Code	with a cool capable of	Energy Codes requires a 7-day programmable thermostat as a minimum. For buildings ing load over 65 tons more complex control systems are required. The system must be trending and demand response setpoint adjustment. This strategy requires a building a system regardless of system complexity. Controls can be expanded to include lighting ater.
	Baseline:	Direct Digital Controls (DDC) for building HVAC.
	Target:	Expand DDC system to control lighting, and domestic hot water.
	Submeter	admestic not water.
Seattle Energy Code	are specia	quires all buildings over 20,000 SF to have energy metering for all major end uses. There I provisions for existing buildings (see Sect. C506). This strategy encourages existing buygrade and for buildings below the 20,000 SF threshold to meet the requirements of the
	Baseline:	Install measurement devices with remote communication capability for each energy source
		regardless of project size.

regardless of project size. Target: Install measurement devices with remote communication capability for each energy source AND end use regardless of project size. See SEC Sect. C409.3.1-6 for end use definitions.

Capital Gre	en Toolkit: Strategies		revised 5/7/2			
Numbe	r Links	Descrip	otion			
E.1.4.A		Reduce ca	arbon emissions from heating equipment.			
	Seattle Energy Code	condition units availa				
		Baseline:	 Opt. 1 - Capacities less than 225,000 btu/h: Install natural gas fired heating equipment with an AFUE of 98% and/or oil fired heating equipment with and AFUE of 87% . Opt. 2 - Capacities of 225,000 btu/h or greater: Provide heating equipment with a minimum thermal efficiency of 82%. Note: New rating criteria is being developed for larger gas unitary equipment. Consult Energy Star and AHRI for most efficient units available. 			
		Target:	Use electric heat pump equipment, no gas.			
E.1.4.B		Increase n	notor efficiency for fans and pumps			
	Seattle Energy Code	B. Increase	B. Increase motor efficiency using variable speed drives and equipment choices.			
		Baseline:	Choose appropriate size and use variable speed drives for fans and pumps with a motor horsepower of 5 hp or larger. Use electronically commutated motor on motors under 1 hp. Baseline is to comply with latest code even where exempt.			
		Target:	n/a			
E.1.4.C		Use Energ	y Star equipment & appliances			
		C. Use Ene eligible equ	ergy Star equipment & appliances (includes commercial food service equipment) for ipment.			
		Baseline:	100% of Eligible Appliances; 50% of Eligible Equipment.			
		Target:	100% Eligible Appliances; 75% Eligible Equipment.			
.1.4.D		Use efficie	ent cooling equipment			
	CEE	D. Use effic	cient cooling equipment per the most recent CEE specifications.			
	<u>CEE Appendix A</u>	Baseline:	Unitary Equipment: Meet lowest Tier (1 or 2) of CEE Specification for Unitary AC; Heat Pumps: meet Tier 1 of CEE Specification; Variable Refrigerant Flow systems: Meet Tier 1 of CEE Specification for VRF Multi-split AC or Heat Pump. For any equipment not listed in CEE specifications, use efficiency requirements of SEC.			
		Target:	All equipment : Meet highest applicable Tier of CEE Specification.			

Number	r Links	Descrip	otion
E.1.4.E		Use efficie	ent domestic water heating equipment
	Seattle Energy Code		ategy only applies to units that provide hot potable water. Units which also provide space ategorized as boilers.
	Energy Star Commercial WH	Baseline:	Install Energy Star rated equipment for water
	<u>Criteria</u>		heaters which are Energy Star eligible. All others
			meet most restrictive requirements either ASHRAE
			90.1-2010 or latest SEC.
	Energy Star Residential WH	Target:	Use Heat Pump water heater with $EF \ge 2.0$
	Criteria	0	
5.1.4.F		Liso officia	ent boiler equipment
<u>1.4.</u>		USE EIIICIE	
	Seattle Energy Code	F. A boiler water.	supplies hot water for space heating or a combination of space heating and domestic hot
		Baseline:	Opt. 1 - Capacities less than 300,000 Btu/h: Gas fired
		2000	boilers to have a min. efficiency of 89% AFUE; oil fired
			boilers to have a minimum efficiency of 87% AFUE
			Opt. 2 - Capacities of 300,000 Btu/h or higher: Gas fired
			boilers to have a minimum thermal efficiency (TE or Et) of 89%; oil fired boilers to have a thermal efficiency of
			85%
		Target:	Opt. 1 - Capacities less than 300,000 Btu/h: Gas and oil
			fired boilers to have a min. efficiency of 90% AFUE Opt. 2 - Capacities of 300,000 Btu/h or higher: Gas and
			oil fired boilers to have a minimum thermal efficiency (TE
			or E_t) of 94% and a turndown ratio ≥ 5.1
E.2.1.A		Upgrade e	nvelope elements as work allows (windows, insulation, wall cavities)
	Seattle Energy Code	A. Upgrade	e windows, insulation and wall cavities per Seattle Energy Code as work allows.
		Baseline:	For additions and alterations comply with Chapter 5
			of latest SEC as applicable.
			For new buildings comply with latest SEC envelope
			requirements.
		Target:	For new buildings, improve envelope components
			UA by 10% over new code.
E2.1.B		Provide ho	prizontal exterior shading devices for south windows.
		B. Provide	horizontal exterior shading devices for south windows.
		Baseline:	30% of windows shaded
		Target:	60% of windows shaded
E2.1.C		Select ligh	nt-colored roofing materials
		C. Select li	ght-colored roofing materials: For low slope roofs provide Solar Reflectance Index (SRI)
			r. For slopes greater than 2:12, select roofing materials with SRI of 29 or higher.
		Baseline:	75% of roof area (excluding equipment area).
		Target:	100% of roof area (excluding equipment area).
E.2.2.A		Size lighti	ng control zones as small as feasible.
		A. Size ligh	ting control zones as small as feasible.
		Baseline:	Regardless of project size or scope
		Target:	n/a
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Number	Links	Descrip	tion
E.2.2.B		Reduce lig	hting energy use through use of automatic lighting controls
	Seattle Energy Code	B. Reduce intermittent	lighting energy use via daylight controls and occupancy sensors in spaces with use.
		Baseline:	Provide occupancy and daylight controls according to latest Energy Code.
		Target:	n/a
E.2.2.C		Reduce lig	hting power density
	Seattle Energy Code	C. Reduce	lighting power density and supplement w/task lighting or daylighting.
		Baseline:	Reduce lighting power density by 5%
		Target:	Comply with Jan 2018 standards listed in SEC
E.2.2.D		Use efficie	nt lighting fixtures
		D. Use effic	sient electric lighting.
		Baseline:	Use lamps with high efficacy (Lumen/Watt) such as T8 or T5, or LED. Use Energy Star CFL's and
		Target:	LEDs n/a
C.1.1.A		Use low er	nission boilers and furnaces
	<u>SCAQMD - 1146</u>		nitrogen oxides boilers and low carbon monoxide furnaces. Comply with current standard past Air Quality Management District Rule 1146
		Baseline:	All capacities gaseous fuels: Emissions of K _{nox} do not exceed 30 ppm All capacities, non-gaseous fuels: Emissions of K _{nox} do not exceed 40 ppm
		Target:	\leq 2 million Btu/h: NO _x limit - 20 ppm > 2 million Btu/h: NO _x limit - 9 ppm
C.1.2.A		Phase out	CFCs in existing buildings and replace with new equipment or refrigerants
		A. Replace requiremen	CFCs in existing equipment with new refrigerants regardless of code or scope of work t.
		Baseline:	Ozone Depletion Potential (ODP) ≤ 0.02 and Global Warming Potential (GWP) ≤ 1900 (R-407C, R-410A, R134A)
		Target:	Ozone Depletion Potential (ODP) = 0.02 and Global Warming Potential (GWP) < 150 (R-123, CO ₂ , NH ₃ , Propane)
C.1.2.B		Provide lea	ak detection and remote alarm where refrigerants are used
	Seattle Mechanical Code	amount of r	s appliances with less than 0.5 pounds of refrigerant. Seattle Mechanical Codes limits the efrigerant equipment can contain without being located either outside or in an enclosed om. Machinery rooms are required to have refrigerant leak detection and alarms. The
			ent of the code is to protect occupants from refrigerant leaks.

Number	Links	Descrip	tion
C.1.2.C			ipment with refrigerants that have low ozone depleting potential & low global
		warming p	otential
			ew HVAC and refrigeration and fire suppression equipment with refrigerants that have low eting potential (ODP) & low global warming potential (GWP).
		Baseline:	Ozone Depletion Potential (ODP) = 0.02 and
			Global Warming Potential (GWP) < 150 (R-123, CO ₂ , NH ₃ , Propane)
			OO_2 , NO_3 , $POPADE)$
		Target:	No refrigerants
		-	-
C.2.1.A		Provide on	-site renewable energy
	Seattle Energy Code	A. Use on-s	ite renewable energy, including photovoltaics, solar thermal, and wind.
		Baseline:	Provide minimum watts per s.f. of conditioned
		Territ	space as indicated in code
		Target:	25% capacity increase over code requirement
C.3.1.A		Limit parki	ing capacity to code minimum
			king capacity to code. Where there is a minimum and maximum requirement, provide no he minimum.
		Baseline:	\checkmark
		Target:	n/a
0.045			
C.3.1.B		Provide se	cure bike parking and shower/changing rooms
			secure bike parking for peak occupancy (FTEs + maximum visitors) and shower/changing
		rooms for F	
		Baseline:	Bike parking for 5% of peak and showers for 0.5% of FTEs
		Target:	Bike parking for 10% of peak and showers for 1% of FTEs
C.3.1.C		Provide pr	eferred carpool/vanpool parking
		C. Provide	preferred carpool/vanpool parking spaces based on total parking spaces.
		Baseline:	5% of total parking spaces
		Target:	10% of total parking spaces
		raigot	
C.3.2.A		Provide pr	eferred parking for low emitting/fuel efficient vehicles
	ACEEE	A. Locate p	referred parking for low emitting/fuel efficient vehicles closest to the entrance exclusive of
			le vehicles are classified as Zero Emission Vehicles by the California Air Resources
			we achieved a minimum score of 45 on the American Council for an Energy Efficient ACEEE) annual vehicle rating guide.
		Baseline:	5% of total parking spaces
		Target:	10% of total parking spaces

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Number	Links	Descrip	tion	
C.3.2.B		Provide Le	vel 2 electric vehicle charging stations (240v).	
		B. Provide I	_evel 2 electric vehicle charging stations (240v).	
		Baseline:	1 per 100 spaces	
		Target:	2 per 100 spaces	
M.1.1.A		Use materi	als manufactured within 500 miles of site.	
		A. Source n	naterials manufactured within 500 miles of the project site.	
		Baseline:	20% cost of materials	
		Target:	40% cost of materials	
<i>I</i> .1.1.B		Use materi	als harvested or extracted within 500 miles of site.	
		B. Source n	naterials harvested or extracted within 500 miles of the project site.	
		Baseline:	5% cost of materials	
		Target:	10% cost of materials	
M.1.2.A		Use wood f	from Forest Stewardship Council (FSC) sources	
	FSC_	A. Use woo	od from Forestry Stewardship Council (FSC) sources	
		Baseline:	20% cost of wood products	
		Target:	50% cost of wood products	
<i>I</i> .1.2.В		Use bio-ba	sed products that meet the Sustainable Agriculture Network standard.	
	Sustainable Agriculture Network	B. Materials	include cork, linoleum, wheatgrass, bamboo, cellulose insulation, etc.	
		Baseline:	1% cost of materials	
		Target:	2.5% cost of materials	
Л.2.1.A		Implement landfill	a construction waste management plan as to divert recyclable waste fro	om the
	Waste Diversion Plan and Assessment permit form	A. Implement requirement	nt Construction Waste Management Plan. See SPU page regarding mandator ts. The SDCI Permit Form directory has a form for the required Plan. Material Seattle certified facility. (List on SPU page).	
	SPU C&D Waste	Baseline:	75% waste diverted	
	King County C&D Recycling	Target:	85% waste diverted	
M.2.2.A		Provide co	nvenient and appropriately sized recycling and composting collection a	nd storage
			conveniently located and appropriately sized recycle collection & storage for paper plastic and glass, and compost.	aper, metal,
		Baseline:		
		Target:	Add collection for batteries, fluorescent lamps and e-waste.	

Number Links M.3.1.A	A. Retain n	on-structural interior elements of existing building on-structural interior elements of existing building . Including finished flooring, finished Is, casework and doors.	
И.З.1.А	A. Retain n ceiling, wal	on-structural interior elements of existing building . Including finished flooring, finished	
	ceiling, wal		
	Baseline:		
		40% of surface area	
	Target:	60% of surface area	
1.3.1.B	Retain stru	uctural components of existing building	
	B. Retain s windows.	tructural components of existing building, including roof, wall and floors but excluding	
	Baseline:	50% of existing walls, floors and roof by surface area	
	Target:	75% of existing walls, floors and roof by surface area	
1.3.2.A	Use demo	untable floor-to-ceiling partitions and non-demising walls	
		nountable floor-to-ceiling partitions for interior non structural and non-demising walls in lieu I wall construction (GWB).	
	Baseline:	30% of interior non-structural walls	
	Target:	60% of interior non-structural walls	
1.3.2.B	Select building assemblies based on life-cycle cost analysis		
LCCA Technical Resource at King County Green To		uilding assemblies based on life-cycle cost analysis and 15 year payback periods.	
	Baseline:	Use life cycle cost analysis to select major building components	
	Target:	Use life cycle cost analysis to select foundation & floor, structural systems & walls, roof, envelope	
1.3.2.C	Select bui	Iding assemblies based on life-cycle assessment	
ASMI-Impact Estimator	Solidworks National In	ware to perform life cycle assessment. Athena Sustainable Materials Institute (ASMI) and CAD Sustainability Xpress add-on can help analyze buildings and assemblies. US stitute for Standards and Technology (NIST) Building for Environmental and Economic ity (BEEs) offers analysis at the product level.	
BEES	Baseline:	Use life cycle assessment software to select major building components	
	Target:	Use life cycle assessment software to select foundation and floor, structural systems and walls, roof, envelope	
1.3.2.D	Use buildi	ng materials that contain recycled content.	
	consumer o cost. Pre-co	ion is based on total cost of building materials only, excluding labor and MEP. Post content, already used by consumers and discarded, to be valued at 100% of proportionate onsumer content, waste from manufacturing reintroduced into the process, to be valued at portionate cost.	
	Baseline:	5% total cost of bldg materials	
	Target:	20% total cost of bldg materials	

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Number	Links	Descrip		
M.3.2.E		Re-use fur	niture and furnishings	
		E. Use curre	ent replacement value to establish cost of re-used items.	
		Baseline:	30% of furniture and furnishings budget	
		Target:	60% of furniture and furnishings budget	
M.3.2.F		Select well	built furnishings for durability.	
		F. Select we	ell built furnishings for durability.	
		Baseline:	10 years	
		Target:	20 years	
IE.1.1.A		Use low-en	nitting interior adhesives and sealants	
	<u>SCAQMD - 1168</u>	A. Use low-	emitting interior adhesives & sealants, i.e., inside the weather barrier.	
		Baseline:	Meet South Coast Air Quality Management District Rule #1168, dated 1/7/2005	
		Target:	na	
IE.1.1.B		Use low-emitting interior paints and coatings		
	<u>SCAQMD - 1113</u>	B. Use low-	emitting interior paints & coatings, i.e., inside the weather barrier.	
	Green Seal 11	Baseline:	Meet 2010 Green Seal GS-11 Third Edition or South Coast Air Quality Management District Rule 1113, dated 2/5/16	
	<u>UL GreenGuard Gold</u>	Target:	Use products that are emissions tested and compliant with the California Department of Public Health (CDPH) Standard Method V1.1-2010. Examples of testing certifications that are compliant include: UL Greenguard Gold; SCS Indoor Advantage Gold; ClearChem Declared (Berkeley Analytical); Intertek ETL Environmental VOC+; Materials Analytical Services (MAS) Certified Green	
IE.1.1.C		Use low-emitting systems furniture and seating		
	Healthier Products & Building Materials	C. Use low-emitting systems furniture & seating certified by large chamber emissions protocols for new purchases.		
	Scientific Certification Systems Indoor Advantage	Baseline:	Green Guard or Indoor Advantage Gold Certified	
	C · ·	Target:	n/a	
IE.1.1.D		Use wood and agrifiber products that contain no added urea formaldehyde		
		D. Use wood and agrifiber products that contain no added urea formaldehyde such as plywood, MDF OSB.		
	CARB Composite Wood	Baseline:	CARB compliant for Ultra Low Emitting Formaldehyde	
		Target:	Labeled as containing No Added Urea Formaldehyde.	
			r offiaidenyde.	

	r Links	Descrip	
E.1.1.E		Use low-er	nitting flooring systems
	CRI		emitting carpet, cushion and hard surface flooring. Flooring adhesives to meet low hesives requirements.
	NSF/ANSI 140	Baseline:	Carpet, Pad and Adhesive: Carpet and Rug Institute's (CRI) Green Label Plus; Hard surface Flooring: Floorscore Certified (except for solid wood and mineral based flooring)
		Target:	Carpet: NSF/ANSI 140 Gold
.1.1.F		Locate out	door air intakes away from outdoor pollution sources
Seattle Mechanical Code		F. Seattle Mechanical Codes requires a minimum of 10 ft. horizontal separation between air intakes and any hazardous or noxious contaminant source. Contaminant sources are considered to be vents, streets, alleys, parking areas, and loading docks. (Exhaust from residential bathroom, kitchen and laundries are not considered hazardous and therefore smaller separations are required). This strategy increases the separation distance.	
		Baseline:	10' from plumbing vents; 40' from parking areas and loading docks; no smoking within 25' of openings
		Target:	Increase distance to 60' from parking areas and loading docks. Do not allow smoking anywhere on the site.
E.1.1.G		Use envelo	ope consultant to incorporate design measures to minimize water intrusion.
		G. Use env	elope consultant to incorporate design measures to minimize water intrusion.
		Baseline:	Member of design team
		Baseline: Target:	Member of design team 3rd party consultant
E.1.2.A		Target:	
E.1.2.A		Target: Provide the	3rd party consultant
E.1.2.A		Target: Provide the	3rd party consultant ermal comfort controls to occupants
E.1.2.A		Target: Provide th A. Provide	3rd party consultant ermal comfort controls to occupants thermal comfort controls to occupants. 1 control zone per orientation and for each multi- occupant space, and
		Target: Provide th A. Provide Baseline: Target:	3rd party consultant ermal comfort controls to occupants thermal comfort controls to occupants. 1 control zone per orientation and for each multi- occupant space, and Adjustable window coverings
		Target: Provide the A. Provide Baseline: Target: Implement B. If project	3rd party consultant ermal comfort controls to occupants thermal comfort controls to occupants. 1 control zone per orientation and for each multi- occupant space, and Adjustable window coverings In addition, provide operable windows thermal comfort survey includes HVAC modifications, conduct thermal comfort survey. Survey to be based on rmat of agree strongly, agree, agree somewhat, neutral, disagree somewhat, disagree,
E.1.2.A E.1.2.B		Target: Provide the A. Provide Baseline: Target: Implement B. If project 7pt scale for	3rd party consultant ermal comfort controls to occupants thermal comfort controls to occupants. 1 control zone per orientation and for each multi- occupant space, and Adjustable window coverings In addition, provide operable windows thermal comfort survey includes HVAC modifications, conduct thermal comfort survey. Survey to be based on rmat of agree strongly, agree, agree somewhat, neutral, disagree somewhat, disagree,
		Target: Provide the A. Provide Baseline: Target: Implement B. If project 7pt scale for disagree sta	3rd party consultant ermal comfort controls to occupants thermal comfort controls to occupants. 1 control zone per orientation and for each multi- occupant space, and Adjustable window coverings In addition, provide operable windows thermal comfort survey includes HVAC modifications, conduct thermal comfort survey. Survey to be based on mat of agree strongly, agree, agree somewhat, neutral, disagree somewhat, disagree, rongly. Conduct survey. Implement corrective action plan if more than 20% of respondents provide negative

Number	r Links	Descrip	otion		
IE.1.3.A		Provide appropriate daylight levels.			
	Seattle Energy Code	A. Provide appropriate daylight levels.			
		Baseline:	Baseline: For all interior opaque surfaces in the daylight zones provide a visible light reflectance value (LRV) of 80% for ceilings, 65% for walls over 56" in height. (LRV is readily available information from paint and ceiling tile manufacturers)		
		Target:	Target: In addition to baseline requirements, meet an Effective Aperature criteria of at least 0.15 (Effective Aperature is the window to wall ratio multiplied by visible light transmittance)		
E.1.3.B		Install auto	omatic daylight controls		
	Seattle Energy Code		to E2.2.B- Install automatic daylight controls within 15' of all perimeter glazing, regardless npliance threshold.		
		Baseline:	Multi-Step Dimming		
		Target:	Continuous Dimming		
E.1.3.C		Maximize	Maximize occupied floor area w/ access to daylight.		
			C. Build full height walls at interior of floor and not at the perimeter so as to not obscure line of sign to windows. Minimum of 10 footcandles and maximum of 500 footcandles.		
		Baseline:	50% of regularly occupied spaces are located within daylight zones and <=30% full height walls at perimeter		
		Target:	75% or more of regularly occupied spaces are located within daylight zones and 0 full height walls at perimeter		
IE.1.3.D		Provide efficient task lighting at individual workstations in open office areas with limited lighting controls			
			efficient LED task lighting fixtures. Permanently mounted occupant sensing fixtures out not required.		
		Baseline:	75% of workstations		
		Target:	90% of work stations		
E.1.4.A		Meet the r	everberation time requirements for the room type(s)		
		A. Offices, conference rooms, teleconference rooms <0.6; open plan office without sound maskin <0.8; open plan office with sound masking 0.8; courtroom unamplified <0.7; amplified <1; library < (Requirements are in T60 (sec) at 500Hz, 1000Hz and 2000 Hz)			
		Baseline:	Meet recommended requirements.		
		Target:	Implement recommendations of acoustical engineer for specific space configurations and needs		

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IE.1.4.B	Provide sp	Provide speech privacy between enclosed spaces.			
	B. Floor /ceiling assemblies shall meet the Barrier STC rating for the application -STC 45 between standard offices; STC 50 between executive offices, offices and conference rooms; STC 60 between mechanical equipment rooms and other occupied spaces.				
	Baseline:	Design interior floor and ceiling assemblies to meet the above criteria when Seattle Building Code does not have a requirement for STC between spaces.			
	Target:	Conduct acoustic comfort survey after completion. Take corrective action if significant speech privacy issues exist.			
IE.1.4.C	Mitigate no	oise from HVAC equipment & plumbing			
	Application	und noise levels (from equipment) should not exceed guidelines in ASHRAE 2011 HVAC s Chapter 48, Table 1 for applicable space types, See guide book for additional details. r measure sound levels.			
	Baseline:	\checkmark			
	Target:	n/a			
IE.1.5.A	Implement	t job-site indoor air quality plan during construction			
	A. Impleme	ent job-site indoor air quality (IAQ) plan during construction, regardless of code threshold.			
	Baseline:	\checkmark			
	Target:	n/a			
IE.1.5.B	Perform b	uilding flush out prior to occupancy.			
	B. Flush out building with outside air prior to occupancy.				
	Baseline:	3500 CFM/SF at 60 degrees F and 60% humidity			
	Target:	14000 CFM/SF at 60 degrees F and 60% humidity			
IE.1.6.A	Design du	ct work and electric/cable runs for accessibility and flexibility			
		rstitial floors, raised floors or careful dropped ceiling or exposed ceiling design to allow for room configurations			
	Baseline:	Carefully planned drop or exposed ceilings			
	Target:	Raised floor or interstitial floor system			

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IE.1.6.B	Provide sufficient volume of outside air		
Seattle Mechanical C	de B. Provide sufficient volume of outside air in accordance with current Seattle Mechanical Coor ASHRAE 62.1-2007	de and	
	Baseline: For new buildings, use ASHRAE 62.1-2007 VRP calculation or Seattle Mechanical Code to determine minimum outside air to each occupied space.		
	Target:Provide permanently mounted outdoor air flow measurement device. OR for Constant Volume air supply systems; provide a damper position feedback system. See guidebook for details.		
IE.1.6.C	Provide effective zone ventilation distribution.		
<u>Seattle Mechanical C</u>	de C. The effectiveness of the ventilation distribution is based on the configuration: i.e. Ceiling of warm air with a ceiling return is less effective than a ceiling supply of warm air with a floor In addition, the distribution effectiveness change on the operating condition of the system (he cooling). The Seattle Mechanical Code and ASHRAE 62.1 take this into account in the minir outside air requirement by applying a factor to less effective configurations. The less effective configurations require a higher volume of outside air which in turn increases energy use.	r return. eating or mum	
	Baseline: Provide a system with a worst case operating condition ventilation distribution effectiveness (Ez) of at least 0.8 as determined by SMC Table 403.3.1.2.		
	Target:Provide a system with a worst case operating condition ventilation distribution effectiveness (Ez) of at 1.0 as determined by SMC Table 403.3.1.2.		
IE.1.6.D	Meet code ventilation requirements with natural ventilation or a combination of both mechanical and natural ventilation, regardless of project size.		
	D. Meet code ventilation requirements with natural ventilation or a combination of both mecha and natural ventilation, regardless of project size.		
	Baseline: Incorporate operable windows to provide ventilation for areas within 25 feet of perimeter. (Minimum requirement of 4% net open area of floor area within 25 feet of window).		
	Target: n/a		