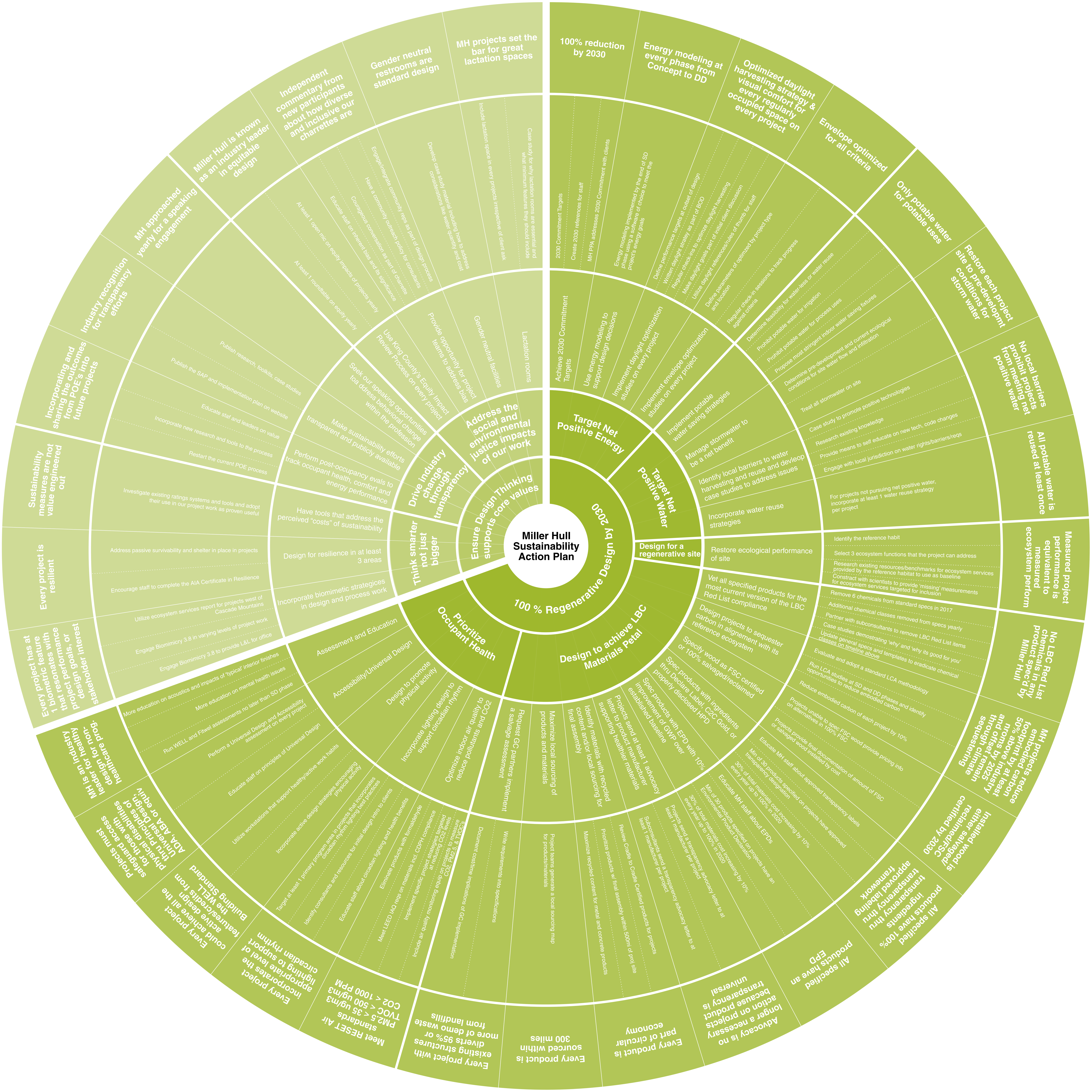
Miller Hull Sustainability Action Plan
100 % Regenerative Design by 2030
Ensure Design Thinking supports core values
Target Net Positive Energy
Achieve 2030 Commitment Targets
2030 Commitment Targets
Create 2030 references for staff
MH PPA addresses 2030 Commitment with clients
100% reduction by 2030
Use energy modeling to support design decisions
Energy modeling implemented by the end of SD phase using a software of choice to meet the project's energy goals
Energy modeling at every phase from Concept to DD
Implement daylight optimization studies on every project
Define performance targets at outset of design
Written daylight strategy as part of BOD
Regular check-ins to optimze daylight harvesting
Make daylight goals part of initial client discussion
Utilize daylight references/rules of thumb for staff
Optimized daylight harvesting strategy & visual comfort for every regularly occupied space on every project
Implement envelope optimization studies on every project
Define parameters of optimzed by project type and location
Regular check-in sessions to track progress against criteria
Envelope optimized for all criteria
Target Net Positive Water
Implement potable water saving strategies
Determine feasibility for water-less or water reuse
Prohibit potable water for irrigation
Prohibit potable water for process uses
Propose most stringent indoor water saving fixtures
Only potable water for potable uses
Manage stormwater to be a net benefit
Determine pre-development and current ecological conditions for site water flow and infiltration
Treat all stormwater on site
Restore each project site to pre-developmt conditions for storm water
Identify local barriers to water harvesting and reuse and devleop case studies to address issues
Case study to promote positive technologies
Research existing knowledge
Provide means to self educate on new tech, code changes
Engage with local jurisdiction on water rights/barriers/reqs
No local barriers prohibit projects from meeting net positive water
Incorporate water reuse strategies
For projects not pursuing net positive water, incorporate at least 1 water reuse strategy per project
All potable water is reused at least once
Design for a regenerative site
Restore ecological performance of site
Identify the reference habit
Select 3 ecosystem functions that the project can address
Research existing resources/benchmarks for ecosystem services provided by the reference habitat to use as baseline
Constract with scientists to provide 'missing' measurements for ecosystem services targeted for inclusion
Measured project performance is equivalent to measured ecosystem perform
Design to achieve LBC Materials Petal
Vet all specified products for the most current version of the LBC Red List compliance
Remove 6 chemicals from standard specs in 2017
Additional chemical classes removed from specs yearly
Partner with subconsultants to remove LBC Red List items
Case studies demostrating 'why' and 'why its good for you'
Update general specs and templates to eradicate chemical classes on timeline above
No LBC Red List chemicals in any product spec'd by Miller Hull
Design projects to sequester carbon in alignement with its reference ecosystem
Evaluate and adopt a standard LCA methodology
Run LCA studies at SD and DD phases and identify opportunities to reduce embodied carbon
Reduce embodied carbon of each project by 10%
MH projects reduce embodied carbon footprint by at least 50% above industry nroms by 2025 and offset remain through climate sequestering
Specify wood as FSC certified or 100% salvaged/reclaimed
Projects unable to spec FSC wood provide pricing info on alternatives in 100% FSC
Projects provide final documentation of amount of FSC or salvaged wood installed by cost
Installed wood is either salvaged/reclaimed/FSC certified by 2030
Spec products with ingredients thru Declare Label, C2C Gold, or properly disclosed HPD
Educate MH staff about approved transparency labels
Min of 30 products specified on projects have approved transparency designation
30% of total materials cost increasing by 10% every year up to 100% in 2020
All specified products have 100% ingredients transparency thru transparency thru approved labeling framework
Spec products with EPD with 10% improvement of GWP over established baseline
Educate MH staff about EPDs
Min of 30 products specified on projects have an Environmental Product Declaration
30% of total materials cost increasing by 10% every year up to 100% in 2020
All specified products have an EPD
Projects send at least 1 advocacy letter to product manufacturer supporting healthier materials
Projects send a transparency advocacy letter to at least 1 manufacturer per project
Subconsultants send a transparency advocacy letter to at least 1 manufacturer per project
Advocacy is no longer a necessary action on projects because product transparency is universal
Identify materials with recycled content and/or local sourcing for final assembly
Review Cradle to Cradle Certified products for projects
Prioritize products w/ final assembly within 500mi of proj site
Maximize recycled content for metal and concrete products
Every product is part of circular economy
Maximize local sourcing of products and materials
Project teams generate a local sourcing map for products/materials
Every product is sourced within 300 miles
Request GC partners implement a salvage assessment
Write requirements into specifications
Document cost/time implications of GC implementation
Every project with existing structures diverts 95% or more of demo waste from landfills
Prioritize Occupant Health
Optimize indoor air quality to reduce pollutants and CO2
Eliminate products with formaldehyde
Meet LEED IAQ reqs on materials incl. CDPH compliance
Implement specific project strategies targeted at reducing CO2 levels
Include air quality monitoring equip on projects to measure CO2, PM2.5, & TVOC's
Meet RESET Air standards PM2.5 < 35 ug/m3 TVOC < 500 ug/m3 CO2 < 1000 PPM
Incorporate lighting design to support circadian rhythm
Target at least 1 primary program area in projects that incorporates circadian rhythm lighting best practices
Identify consultants and resources for initial design intro to clients
Educate staff about circadian lighting and health benefits
Every project incorporates the appropriate level of lighting to support circadian rhythm
Design to promote physical activity
Utilize workstations that support healthy/active work habits
Incorporate active design strategies encouraging physical activity
Every project could achieve all the active design features/credits from the WELL Building Standard
Accessibility/Universal Design
Perform a Universal Design and Accessibility assessment on every project
Educate staff on principles of Universal Design
Projects must safeguard access for those with physical disabilities thru Principles of Universal Design, ADA, ABA or equity
Assessment and Education
More education on acoustics and impacts of 'typical' interior finishes
More education on mental health issues
Run WELL and Fitwel assessments no later than SD phase
MH is an industry leader for healthy design for non-healthcare prog.
Think smarter not just bigger
Incorporate biomimetic strategices in design and process work
Utilize ecosystem services report for projects west of Cascade Mountains
Engage Biomimicry 3.8 in varying levels of project work
Engage Biomimicry 3.8 to provide L&L for office
Every project has at 1 biometric feature with 1 biomonates with resonatece that performance project goals, or desgin stakeholder interest
Design for resilience in at least 3 areas
Address passive survivability and shelter in place in projects
Encourage staff to complete the AIA Certificate in Resilience
Every project is resilient
Have tools that address the perceived "costs" of sustainability
Investigate existing ratings systems and tools and adopt their use in our project work as proven useful
Sustainability measures are not value engineered out
Drive industry change through transparency
Perform post-occupancy evals to track occupant health, comfort and energy performance
Incorporate new research and tools to the process
Restart the current POE process
Incorporating and sharing the outcomes from POE's into future projects
Make sustainability efforts transparent and publicly available
Publish research, toolkits, case studies
Publish the SAP and implementation plan on website
Educate staf and leaders on value
Industry recognition for transparency efforts
Seek our speaking opportunities toa ddress behavioral change within the profession
MH approached yearly for a speaking engagement
Address the social and environmental justice impacts of our work
Use King County's Equity Impact Review Process on every project
At least 1 open mic on equity impacts of projects yearly
At least 1 roundtable on equity yearly
Miller Hull is known as an industry leader in equitable design
Provide opportunity for project teams to address bias
Engage/integrate community reps as part of design process
Have a community outreach policy for consultants
Courageous conversation as part of charrette
Educate staff on inherent bias and its significance
Independent commentary from new participants about how diverse and inclusive our charrettes are
Gender neutral facilities
Develop case study material including how to address considerations like water quantity and cost
Gender neutral restrooms are standard design
Lactation rooms
Include lactation space in every projects irrespective of client ask
Case study for why lactation rooms are essential and what minimum features they should include
MH projects set the bar for great lactation spaces