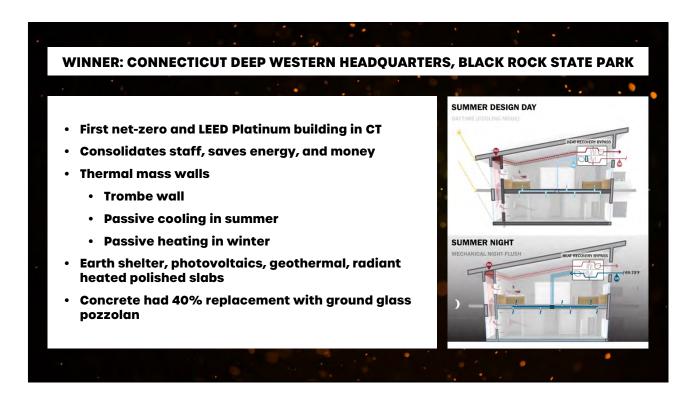




WINNER: CASA ADELANTE - MAR STRUCTURAL DESIGN Affordable housing 20% units for homeless Shelter-in-place seismic system A near-zero cost premium U.S. Resiliency Council Gold Rating Zero days to recovery Concrete 44% reduction from NRMCA Benchmarks Concrete 54% reduction from NRMCA Benchmarks







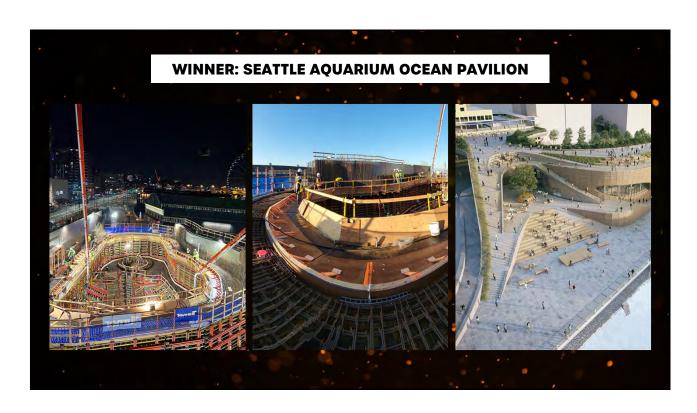
WINNER: REMY WINES CARBON SEQUESTERING CONCRETE SLAB

- Biochar concrete
- Locks CO2 from biomass into usable form
- Wilsonville Concrete tested concrete
 - Strength
 - Freeze-thaw
 - Abrasion
 - Air
 - Slump
 - Finishability (mock-ups with contractor)
- 50 kg CO2 sequestered in slab
- 140 kg avoided from mix optimization

Project Summary

- Client/Project: Remy Wines Winery
- Location: Dayton, OR (June 1, 2022)
- <u>Project:</u> Adaptive Reuse Conversion of Ag Barn into Production Winery
- Concrete: 5,000 square foot slab dosed at 100lbs per yard
- <u>Sequestration</u>: 10,230lbs of CO2
 Equivalent locked into concrete





WINNER: SEATTLE AQUARIUM OCEAN PAVILION Many challenges Unique shape Structural design Extremely dense reinforcement No cold joints Corrosion resistant High strength concrete with high flowability Use of three mock-ups 10,000 psi grout mix 38% reduction in CO2 from NRMCA benchmark 50% slag mix Eliminated epoxy coating on reinforcement

• Eligibility • Building or infrastructure project • Built in U.S. in the last five • An NRMCA member company must have been involved • Anyone can submit a nomination • Areas of Excellence • Advanced quality control, innovative cements, supplementary cementitious materials, admixtures, aggregates, recycling methods, carbon capture and sequestration technologies, measurement tools or innovative designs • Judging Criteria • Demonstrate improvements in performance and carbon footprint • Deadline • January 31, 2024

