



WATER

The facility uses 31.33% less water than a code-compliant baseline through incorporating low-flow showers, fixtures and sinks. Rooftop rainwater harvesting coupled with an efficient drip-irrigation system and the use of native plant species means the project uses 59% less potable water for irrigation, a savings of 42,340 gallons/year.



ENERGY

Chilled beams with fan coil units for space conditioning, automatic occupant sensors and strategic lighting, reduced air changes and other measures will decrease energy use by 34.72% over ASHRAE 90.1 – 2007. 70% of the facility's electricity is powered by certified Green-E energy sources.



INDOOR ENVIRONMENTAL QUALITY IEQ

The chilled beams decouple ventilation airflow requirements from main loads. This combination reduced energy consumption by 30% (when combined with the other measures) and system costs by 20% without compromising occupant safety.



MATERIALS

100% of the wood used on the project (millwork, wall panels, lab casework, in-wall blocking, interior doors, and roof terrace decking and tiles) is 100% FSC certified. 22% of the total materials (by cost) contain recycled content, including significant items such as: structural steel, metal lab casework, rebar, drywall, metal studs, cold-form metal framing.



SITE

JGM occupies a previously developed, impervious grey-field site which drove the siting concept. A central green space surrounded by bioswales directs runoff naturally into the surrounding wetlands. Over 50% of the site is reserved for open, vegetated public green space, which is also instrumental in managing and treating stormwater onsite.



INNOVATIONS

- Enhanced Building Envelope Commissioning (BECx)
- 250 kW microturbine cogeneration for electricity and heat with overall efficiency of 86%
- Run-Around airside heat recovery