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## KAISER PERMANENTE | SANTA ROSA MEDICAL OFFICE BUILDING

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Integral Group provided engineering and consulting services for this new three-story medical office building. The project is the first medical office building to be LEED Zero Energy certified and one of the country's first LEED Zero Energy certified projects. As anticipated through Integral Group's modeling efforts, the photovoltaic (PV) energy produced and captured on-site exceeds the energy used during full occupancy. The building's all-electric operation signifies it is Net Zero Carbon as well.

Thermodynamically zoned heat pumps saved one million dollars in HVAC construction costs by eliminating large amounts of pipes. Other sustainability measures include electro-chromic glazed glass, photovoltaic panels, building orientation optimization, and water conservation, including landscaping with drought-tolerant native plants watered by weather-based drip irrigation.

Collaboration and pre-fabrication were key in this design-assist delivery. Integral Group coordinated with the contractor team during the design phase to provide fully-coordinated construction documents, eliminating shop drawings and value-engineering and expediting construction.

The building includes facilities for primary care, including family medicine, health education, gynecology, supporting imaging, laboratory, and pharmacy units.

Key features include:

- All-electric design saved \$1 Million in first costs
- All-electric, no combustibles on site; Net Zero Carbon
- Design-Assist Project Delivery
- 617 kW PV array with 992,000 kWh/yr for first-year production
- Full measurement and verification services to guide the project toward Net Zero Energy
- Heat pump central Domestic Hot Water System, one of the first of its kind
- Thermal-diffuser system
- Electro-chromic glazing and thermally broken metal insulated panel envelope
- All-LED lighting
- Building water use over LEED baselines
- Electric Vehicle charging stations

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**PROJECT HIGHLIGHTS**

<b>Location:</b>	Santa Rosa, CA, USA
<b>Architects:</b>	Hawley Peterson & Snyder
<b>Sustainability:</b>	LEED Platinum Certified LEED Zero Energy Certified Net Zero Energy ILFI Certified Zero Carbon Zero Net Energy

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