

## LEOTEK Partnered with the Chabot Space and Science Center to Revolutionize Their Lighting System and Provide Visitors with an Even More Immersive and Enjoyable Experience.



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**The Chabot Space and Science Center is a renowned observatory complex** located in the Oakland California hills. With a mission to inspire and educate learners of all ages about the universe and planet, the Center receives an average of 189,000 visitors annually. However, the Center faced issues with their existing outdoor lighting system consisting of a mix of 62 high-pressure sodium and metal halide lights. These lights were high in energy consumption, high maintenance, and unattractive. Additionally, the lights caused problems such as skyglow, discomfort glare, and light trespass, which of course is critical for an observatory to mitigate.

LEOTEK partnered with the Chabot Space and Science Center to revolutionize their lighting system and provide visitors with an even more immersive and enjoyable experience. To address these issues, LEOTEK introduced a different approach to outdoor lighting. The GreenCobra Junior LED luminaire was the perfect solution to achieve comfortable outdoor lighting with visual quality, while also saving on energy costs. Furthermore, through the use of LEOTEK's innovative shield technology, the new luminaires are able to provide the uniform, directional light desired by the Center.

Chabot took their lighting upgrade one step further by implementing bi-level motion sensors and multi-step field-adjustable light level tuning. This means that when a given fixture senses movement, it raises the light level to 100 percent output and remains at full brightness. When movement is no longer detected, the fixture will dim down to a lesser output. This intelligent feature helps keep electricity costs low and supports a darker environment for the observatory.

With the project completed, Chabot has seen an estimated 90 percent savings in their lighting costs. This transformation now provides the Center with a teaching opportunity on the benefits of lighting and 'dark skies'. Lighting the road to Chabot with this truly tailored solution provided by LEOTEK serves as an example of how innovative and sustainable lighting solutions can enhance user experience and promote energy conservation.

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