

## Cantega's Greenjacket® precise fit cover-up delivers reductions in downtime and lost revenue: **Large Independent Petroleum Refinery**



Located in the Southeastern U.S., this 200 mbpd refinery operates 24 hours per day, 365 days per year. Daily, the refinery produces 3.5MM gal/day of gasoline, 2.2MM gal/day of ULSD, and 1.1MM gal/day of jet fuel.

Serving as the electrical backbone of the refinery is a main substation with redundant 161kV incoming lines from the local utility feeding a 6-breaker ring bus; and four 25mVA transformers feeding four 12.47kV secondary busses.

Between 2011 and 2014, the refinery experienced several wildlife induced outages that resulted in large lost opportunity costs to the refinery. Following a bus fault due to a raccoon getting across two phases in 2012, management began investigating animal control solutions available in the marketplace.



Close-up of Greenjacket installed.

According to the General Manager, "The Greenjacket solution was discovered in mid-2013 after researching several different potential solutions. Greenjacket visited the refinery for an initial walk-thru and took pictures and measurements to develop a detailed material quote in late summer 2013. The first quote and presentation was provided to the refinery on 11/10/13. A complete presentation of each insulation piece proposed was shown to the leadership team in early 2014. The Greenjacket solution gained momentum after a Bus C bushing box failure in August 2014."

Installation included 400 pieces of Greenjacket and 400 feet of strategically placed conductor cover during a planned shut-down. A unique coverage solution was developed and presented by Greenjacket for the T-OD Reactor that required added protection was also utilized.

The General Manager added, "After experiencing four, very costly outages in our main substation due to wildlife between 2011 and 2014, we had to implement a proven, cost-effective solution to this problem. Greenjacket was the solution. By installing the precise-fit engineered solutions in the switchyard, the refinery hopes to eliminate animal-related outages, reduce refinery downtime and lost revenue, and protect wildlife in the future."

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