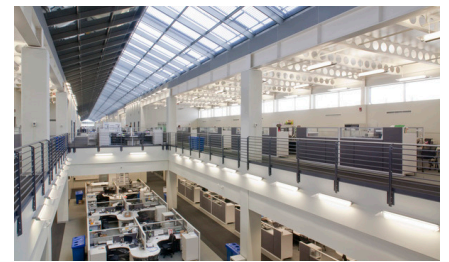


Volkswagen AG

# \$1 Billion Chattanooga Automotive Production Facility



Having successfully performed design work for more than 50% of all automotive assembly plants built in the U.S. over the last 10 years, SSOE was well qualified to oversee architecture, engineering, and construction management services for Volkswagen's new production facility. Volkswagen desired a partner with a strong sustainability focus who would help the company execute its green initiatives. Strong project management was also needed to coordinate the efforts of city officials, local contractors, and an international client to meet a very aggressive timeline for the start of production.

Located on an 830-acre brownfield site, the production facility consists of conventional steel framed buildings with concrete columns, roof structures with skylights, metal wall panels with windows, and a single-ply membrane roof. The plant has the capacity to produce 150,000 mid-sized vehicles annually. The primary manufacturing operations include weld, paint, and assembly. Other facilities on this site include outbound logistics, an extensive training center, media (utility) center, social hall with cafeteria, technical center, tank farm, recycling center, and fire station. SSOE provided environmental permitting, civil, architectural, structural, mechanical, fire protection, plumbing, electrical, fire alarm, access control, and security systems as well as construction management. SSOE's expertise led to the first and only LEED® Platinum automotive assembly plant in the world.

SSOE assisted with the preparation, submittal, and multiple agency approvals of the air permit in record time - two weeks ahead of an aggressive three month schedule. This allowed the project to move ahead on schedule to meet production goals.

## value promise

Through innovative design concepts, benchmarking common practices, and scheduling, SSOE offered VW a savings of more than \$44 million. Not all savings concepts were realized due to VW preferences.

**size** 2.7 million SF

**location** Chattanooga, Tennessee

## highlights

New facility on 830-acre brownfield site

Comprehensive design and construction management

LEED® Platinum certified

High-profile site employing over 2,000 employees

Winner of the Tennessee Governor's Environmental Stewardship Award for Building Green

Winner of the ACEC Ohio's Engineering Excellence Award