



Cape May County Energy Master Plan

PROJECT INFORMATION

CONCORD DIVISION

Commercial

PROJECT LOCATION

Cape May, NJ

MARKET

Government

SERVICES

Energy Master Plan

ABOUT THE CLIENT

Cape May County is the southernmost county in NJ. As of the 2017 Census Estimate, the county's population was 95,553. Consistently a popular summer destination with 30 miles of beaches, Cape May attracts vacationers from New Jersey and surrounding states, with the summer population exceeding 800,000. Tourism generates annual revenues of \$5.3 billion, making it the county's single largest industry, with leisure and hospitality being Cape May's largest employment category.

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PROJECT SUMMARY

In order to properly manage their costs, improve energy efficiency, and initiate a proactive mentality at the County, a comprehensive Energy Master Plan was commissioned to Concord Engineering. This plan was as much a commitment, in that the County intended to be the leader in New Jersey for renewable energy and building efficiency. Initially, the County intended to concentrate on its own properties and facilities, in order to set a standard of excellence that could be emulated in the future by municipalities and private residences and businesses. Long term goals were also defined to provide incentives, training, and guidance to develop clean energy projects as well as promote the clean energy service and manufacturing sector in the County.

PROJECT HIGHLIGHTS

New Jersey's Energy Master Plan as well as federal legislation that promotes renewable energy, energy efficiency and biofuels was an integral part of the County's ability to implement a successful program. Goals and recommendations of the County's Energy Master Plan included:

- Providing incentives and active pursuit and development of wind power, CHP, Solar PV and biomass power plants through public private partnerships and Power Purchase Agreements.
- Dedicating local, state and federal resources and funding to implementing energy conservation projects that were identified through a county-wide energy audit.
- Becoming the County leader in New Jersey to be carbon neutral within 5 years would be accomplished by implementation of all energy conservation projects initially. The remaining carbon emissions would be offset by the purchase of Renewable Energy Credits (RECs) and power purchase agreements from renewable generators.
- The County would adopt new procurement standards for professional architectural and engineering services as well as service and installation contractors, so only that firms who demonstrate strong commitment and experience to energy efficiency and sustainable design would be contracted for County work.
- The County would actively promote and attract clean energy sector businesses to develop business in the County as well as work closely with County College and Vocational School as well as K-12 educators to support clean energy certifications and curricula.
- Based on the energy audit of County facilities, significant energy savings projects existed that would benefit the County with immediate reductions in electric and fuel costs. The result would be a 15.60% reduction in electric and natural gas costs. Additional savings in maintenance and operations would also be realized from newer more efficient equipment. It was estimated that a comprehensive building efficiency program could yield a 20% reduction in energy costs when all facilities were included.