



TO DEVELOP THE
STATE OF NEW JERSEY
AND MAKE IT
A BETTER PLACE TO LIVE

Roseland to Bushkill
SR 500kV Transmission Project



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Message from PSE&G

To Develop the State of New Jersey and Make It a Better Place to Live

For more than 100 years, PSEG has played an essential role in providing the energy to fuel New Jersey's economy and enhance the quality of life for the state's residents.

The building of the electricity grid has been called one of the greatest engineering feats of the 20th century. This book tells the history of how a modern electric system took shape and how it has continued to evolve through one improvement after another, from decade to decade up to the present.

It is a story of strong leadership – and commitment. Today's PSEG can trace its origins to 1903, when following a tragic trolley accident, Thomas McCarter consolidated hundreds of small, struggling transit, gas and electric providers into a single, stronger entity that could better serve the public. He established the Public Service Corporation with a clear mission: "To develop the State of New Jersey and make it a better place in which to live." That mission – featured in the title of this book – hasn't changed.

The story told in these pages is one of innovation as well. PSEG was among the first public utilities to create a high-voltage transmission system that was efficiently linked in a network to provide widespread access to reliable energy, and to do so at reduced cost by achieving economies of scale.

No single company achieved these vast improvements entirely on its own. An interconnected grid emerged through strong partnerships. This book discusses the key partnerships that were instrumental in creating the first interstate power pool, the Pennsylvania-New Jersey Interconnection, in 1927. And it brings the story up to date with a concluding chapter about today's PJM, which oversees the transmission system and wholesale energy market to reliably serve the energy needs of more than 60 million people across a large multistate region which includes the state of New Jersey.

Ultimately, this is a remarkable human story of progress achieved through dedication, cooperation and hard work. Here you can read how the first transmission line to cross New Jersey was built in the 1920s by crews using teams of mules, horses and oxen to pull wagons loaded with heavy equipment over barely existing roads – and where there were no roads, literally putting shoulders and backs to metal to carry a 100-foot tower weighing 12 tons piece by piece to its destination.

We owe an enormous debt to our predecessors, who overcame countless hurdles and challenges while sparing no effort to build a system to last. That same dedication continues to drive us as we strive to meet the evolving energy needs of our customers and the larger society around us.

Electricity has become increasingly important to support today's busy lifestyles and a globally competitive economy. We are moving ahead with a wide range of infrastructure modernization projects to help maintain and improve the reliable flow of power to our customers long into the future.

The Susquehanna-Roseland Reliability Project discussed in this book is one of the largest of these critical projects. It is also another outstanding example of strong partnerships at work, and I would like to thank our partners in this project, PPL Electric Utilities. The Susquehanna-Roseland Reliability Project modernizes a power line first built in the 1920s with the help of pack animals. The new line is being built with the use of helicopters to aid construction in remote areas and help reduce impacts on the environment.

The tools in our kit may have changed, but reliability remains fundamental. PSEG will continue to pursue an aggressive program of major infrastructure improvements to support the high standard of reliable service that is our hallmark. And, we have begun work on new measures to harden our system and improve resiliency against extreme weather. These investments also have an impact by creating thousands of good jobs and bolstering New Jersey's economy.

This book is meant to be a helpful source of information about the building of the modern electric grid, but there is also much in these pages that can inspire.

As a company proudly called Public Service, we will continue working hard to better serve our customers and support a prosperous, resilient future for the Garden State and all of its inhabitants.

Ralph LaRossa

President & Chief Operating Officer, PSE&G

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