

## Greening the Future...with Nuclear Energy

Climate change requires new thinking about energy. Our nation needs to move toward an energy mix less dependent on fossil fuels, for the sake of a healthier, greener and more secure future.

We need to do all we can to promote energy efficiency and renewable energy. Yet our nation will still need large power stations that can supply electricity – around the clock, regardless of weather – with zero- or low-carbon emissions. Nuclear stations are the greenest option available to provide this power. While clean coal holds promise for the future, it is in need of further technological development.

Nuclear energy is proven as an emissions-free, abundant resource. Large investments in new nuclear stations will be needed to meet aggressive carbon reduction goals – and the nation's future energy needs.

During the last decade alone, nuclear stations – simply by running well across the country – avoided some 800 million tons of carbon dioxide being released into the atmosphere, and millions of tons of sulfur dioxide, nitrogen oxide and other pollutants.

About 50 percent of the electricity used in New Jersey already comes from emissions-free nuclear power – which helps explain why New Jersey has one of the lowest per-capita carbon emission rates of any state. PSEG's nuclear plants in the state – Salem and Hope Creek – displace about 25 million tons of carbon emissions per year.

Around the country new nuclear plants are being proposed and evaluated. In New Jersey, PSEG is looking at the feasibility of building at least one new plant at its current South Jersey site. An additional nuclear plant could avoid more than eight million tons of carbon emissions per year – a statewide reduction of 17 percent – by replacing fossil-fueled energy sources, including out-of-state, coal-based electricity.

Nuclear power stations are multi-billion dollar, long-term propositions – not the type of projects that any company can afford to undertake without a full and careful weighing of risk. The approval process for building a new nuclear facility is exceptionally lengthy and complex. In addition to addressing cost uncertainties, the nation must also have an open and honest debate on long-term solutions for storing nuclear waste.

The world is changing rapidly – and society needs to change along with it. Coming to grips with the reality of a carbon-constrained world means coming to grips with nuclear energy as one of our most important energy resources.

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**PSEG**

*We make things work for you.*