Energy on Long Island Now and Tomorrow

Jean Pierre Clejan

This class brings attendees up to date on the changing world of energy as it relates to residential major renovation and new construction projects on Long Island.

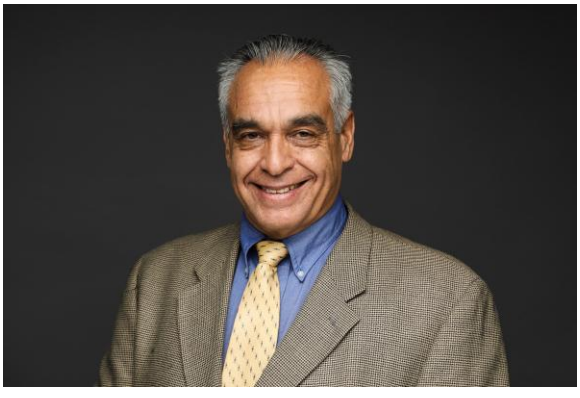
2026 introduces the NYS all-electric building code, PSEG-Long Island's lower rebates and default Time-of-Day rate structures, and the end of the Federal residential solar and geothermal heat pump tax credits. This new scenario is imposed against a backdrop of inflation (loss of purchasing power) and worsening effects of climate change.

We begin by analyzing the carbon emissions and operating costs of multiple HVAC types using PSEG-LI rates and Long Island fuel prices. This includes a compare/contrast of the two feasible all-electric solutions (air source and ground source/geothermal heat pumps) as applied to an efficient new construction project.

We analyze the historical financials of geothermal heat pumps (geo HVAC) for the same new construction project (an already completed net-zero project) as compared to the new 2026 scenario, noting that the economics for geo HVAC remain attractive compared to air source heat pumps.

We compare the historic financials of solar power (on an award-winning near-zero energy home) to the 2026 scenario, noting both the evolution of the technology and similar financial benefits factoring in 2026 electric rates, lower PSEG rebates, and loss of incentives.

Time of Day residential electric rates are now the default for new LIPA customers while existing ratepayers are being transitioned to them over this year and next. We go through the various rate schedules, clarifying the latest pricing (for each rate schedule and time period) and discussing which rate schedules make the most sense in various scenarios.



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Jean-Pierre Clejan is a renewable energy subject matter expert, specializing in solar electricity and heat pump systems for residential and commercial buildings which minimize energy bills,

carbon footprint and exposure to future rate increases. With certifications from the North American Board of Certified Energy Practitioners (NABCEP PV Installation Professional) and the International Ground Source Heat Pump Association (IGSHPA Geothermal Installer), he is well versed in the best-practices use of renewable energy and energy efficiency in new construction, major renovation and retrofit projects.

Jean-Pierre delivers accredited programs to design professionals seeking his technological expertise to guide their clients towards sustainable construction projects. Jean-Pierre enjoys working with architects, engineers and LEED professionals in developing zero energy or near-zero energy buildings – many of these are showcased as case studies in his accredited programs. Jean-Pierre received his Bachelor of Science in Engineering and Applied Science degree from Caltech, currently serves as Technology Executive for LI-based solar integrator GreenLogic Energy, and is one of DPC Continuing Education’s original speakers (with multiple accredited programs available on-demand).