The Integrated Resource Plan (IRP) is a comprehensive assessment of LIPA's resource and transmission assets that identifies reliable, environmentally compliant, cost effective, and timely options for meeting future demand.

- PSEG Long Island, as agent of and acting on behalf of LIPA, has commenced the development of a new 2022 IRP for electric power supply to the electric grid for Long Island and the Rockaways.

- IRPs are typically conducted every 3 - 5 years with a 10+ year planning horizon.
  - The 2017 IRP rejected proposals to build new combined-cycle plants and identified future challenges of integrating offshore wind.
  - The 2022 IRP will use a Study Period of 2022 - 2040 with a focus on changes needed by 2030.

- The IRP will produce an Action Plan.
WHAT’S NEW FOR THE 2022 IRP?

• In 2019, New York State adopted the Climate Leadership and Community Protection Act (CLCPA) which includes aggressive goals to decarbonization the electric grid.

• CLCPA will require sweeping changes to LIPA's power supply portfolio and planning for future generation and transmission.

• Transitioning to a carbon-free grid involves both adding new clean sources of energy and retiring older, fossil-fueled power plants.

Statewide CLCPA Goals

- 750 MEGAWATTS Distributed solar
- 30,000 MEGAWATTS Energy Storage
- 375 MEGAWATTS Heat Pumps
- 1,125 MEGAWATTS Offshore Wind
- 100 PERCENT Carbon-Free Electric

2025 2025 2030 2035 2040
KEY CHALLENGES FOR THE 2022 IRP

Near-Term Challenges

• Contracts with existing fossil-fired plants, which currently meet about 80% of local capacity needs, are set to expire in the next 5-10 years and will need to be replaced by clean energy

• Integration of offshore wind, solar, and energy storage resources will necessitate upgrades to the on-Island transmission grid

• New York State CLCPA goals and New York Independent System Operator market reforms are changing the rules of the electric business

Long-Term Challenges

• Transitioning Long Island to a zero emissions reliable power grid by 2040

• Meeting growth in electric vehicles and building electrification
• Existing resources meet LIPA’s capacity requirements through 2030
• Most power purchase contracts with fossil units expire by 2030
• Many older, LILCO-era fossil units are candidates to retire by 2030
CURRENT AND PROJECTED FUEL MIX

• The large majority of LIPA’s current fuel supply mix uses fossil fuels
• By 2040, LIPA will serve its customers with 100% zero-carbon electricity generation
The 2022 IRP process will be a one year+ effort
LIPA and PSEG Long Island staff will be collaborating with additional resources, including:

**Consultant Support**
- Consultant with extensive industry experience is being retained to assist in IRP development

**Utilizing Academic and National Expertise**
- Stony Brook University and Brookhaven National Laboratory representatives to provide input on topics and identify emerging technology
IRP Website, Email & Notifications

- A dedicated public webpage has been created on the LIPA website
- Interested parties can sign up to an email list to receive IRP related updates
- Questions and feedback can be provided directly via an online form or via email to IRP@lipower.org

Public Comment Period

- LIPA and PSEG Long Island will post the proposed IRP scope of work and seek public comments for a period of 30 days
- Additional opportunities for public comments will be provided later in the IRP process