

Sunnyside Energy

Site: Sunnyside Landfill



Reinventing
Cities



Project Summary: The *Sunnyside Energy* Project includes many community opportunities that will turn an unmaintained, methane-leaking landfill into a vibrant, clean, economically viable, maintained, health-inspiring good neighbor.

Remediation is an important first step to being a good neighbor by restoring the 240-acre cover and creating a cleaner environment. Once remediated, the Sunnyside Energy Project includes four main components:

- Sunnyside Energy Solar Farm – a large-scale, ballasted commercial solar array of approximately 70 Megawatts (MC-AC) complete with bioretention areas, an integrated biking and walking path, an electric vehicle charging station, and battery back-up to the Sunnyside Community Center;
- Agricultural Hub and Training Center (“Ag Hub”) – land set aside for community-driven aquaponic greenhouse and training center with a “living labyrinth”;
- Sunnyside Community Solar – allowing Houstonians and non-profits to benefit from local solar energy for their homes and businesses, even if their sites are not suitable for solar; and
- Sunnyside Energy Trust – with a local board of trustees to guide Project decisions and manage funds raised in part through an annual allocation from the Solar Farm. Included in the Project is a special cost-saving electricity plan for lower-income residents; and educational display boards and a 4-kW array at the Sunnyside Community Center.

Key Components & Solutions

→ Sunnyside Energy turns a former landfill into the largest urban solar farms in Texas. 70 MW of solar panels will be installed over 224 acres. In addition to solar, a bio-digester and battery storage will contribute to the energy performance.

→ The project will generate electricity to supply 12,000 homes and will provide power discounts for low-income residents

→ Sunnyside Energy aims to achieve a carbon positive status by its 5th year of being operation.

→ Sunnyside Energy’s Ag Hub, is a training center for biodiversity subjects. Aquaponics, bee keeping,

bioremediation and native plants are to be promoted here.

→ Sunnyside Energy will promote low-carbon mobility by limiting parking, including electric charging stations and incentivizing biking and walking.

Main members of the team

Team leader: WOLFE ENERGY LLC
Architect: EDF RENEWABLES DISTRIBUTED SOLUTIONS INC • GENTILE GLAS HOLLOWAY O'MAHONEY & ASSOC. • PYRANAK DESIGN GROUP

Environmental expert: IKON Environmental Solutions

