

SUSTAINABLE BREWERY GUIDE



With commercial beer production at an all-time high in New Jersey there is ample opportunity for breweries to increase their environmental efforts and sustainability practices. This guide helps brewery owners and operators evaluate their business practices and take practical actions to go green.

←←← ABOUT THIS GUIDE

ENERGY



- Track monthly energy use.
- Turn off equipment not in use.
- Install energy-efficient equipment - look for the ENERGY STAR® seal.
- Upgrade to LED lighting.

✓ Visit www.njcleanenergy.com to learn more about **financial incentives**.

WASTE



- Sell or donate spent grain, fruit pulp and pomace to local farmers and livestock owners.
- Collect and reuse yeast for the next brew.
- Switch to reusable plastic pallets.
- Work with suppliers to reduce unnecessary plastic wrapping.

✓ Visit recycle.nj.gov to learn more about recycling requirements.

WATER



- Install a condensate recovery system.
- Use a leak detection checklist regularly.
- Cool boil unfermented beer with cold water and collect heated water for use in the next brew.
- Upgrade to WaterSense® products.

✓ Visit www.epa.gov/watersense to learn more.

COMPRESSED AIR



- Use low-pressure fans instead of compressed air for blowing off water.
- Reduce compressed air usage whenever possible.
- Set air pressure at the lowest level to maintain operations.

✓ Visit www.energystar.gov/ia/business/industry/LBNL-50934.pdf to learn more.

INSULATION



- Install strip curtains, plastic swing doors or automatic door closers for refrigerators.
- Insulate all hot and cold pipes, valves, flanges, tanks and heat exchangers.
- Install door seals to keep cold air in.

✓ For more resources, visit www.brewersassociation.org/attachments/0001/1533/energy_insulation.pdf.

BOILERS & CO₂



- Conduct boiler maintenance.
- Use economizers to transfer heat from boiler exhaust gas to preheat boiler feed water.
- Install a carbon dioxide recovery system.
- Upgrade to ultra low oxides of nitrogen burners.

✓ For more resources, visit www.brewersassociation.org/attachments/0001/1530/Sustainability_Energy_Manual.pdf.

PACKAGING



- Purchase recycled glass bottles, aluminum cans and boxes.
- Choose low-weight bottles and cans to reduce energy used in transportation.
- Switch to tap handles made from recycled or salvaged materials.



To learn more visit
www.epa.gov/smm.

CLEANING



- Install a clean-in-place system for more efficient cleaning.
- Upgrade to high-efficiency spray nozzles.
- Select products with the EPA Safer Choice, Green Seal or Ecologo label.



To learn more visit
www.epa.gov/saferchoice.

LEADERSHIP



- Adopt a company sustainability policy statement.
- Set annual environmental goals and advertise results.
- Create a green team to engage employees on how to conserve and use resources more efficiently.



Join the New Jersey Sustainable Business Registry visit
registry.njsbdc.com.

>>> CASE STUDY <<<



Flying Fish Brewery's sustainability philosophy recognizes that what is good for the environment is also good for business. The state-of-the-art brewery, located in Somerdale, New Jersey has implemented many green practices that limit resource use including:

- **Installing passive light tubes and solar panels**
- **Utilizing a brew kettle that recaptures all of the steam created during the brew process**
- **Reusing process water for cleaning operations**
- **Constructing a native rain garden**

Flying Fish has significantly reduced its energy use through the installation of passive light tubes, high-efficiency lighting and 463 solar panels. **Learn More.**

>>> RESOURCES <<<

Brewers Association Sustainability Manuals

www.brewersassociation.org/best-practices/sustainability

Sustainable Breweries - EMAP Webinar

youtu.be/gQqATRVI6Ew

ENERGY STAR Guide for Breweries

www.energystar.gov/ia/business/industry/LBNL-50934.pdf

NJ Sustainable Business Registry

registry.njsbdc.com

NJ Sustainable Business Guides

www.nj.gov/dep/aqes/sustain_bus.html

