



Environmental Responsibility

The environmental impact of typical cannabis cultivation sites is problematic in two aspects.

The first consideration is the use of excessively high energy consumption for lighting. High energy use leads to increased Carbon Dioxide emissions. Carbon Dioxide is recognized as primary driver of climate change.

The second concern is the common practice of discharging in to the public sewer system of spent nutrient solutions. These solutions contain strong concentrations of chemicals identified under the Clean Water Act in the "Priority Pollutants List" found in 40 CFR 423 appendix A. Specifically they are: Phosphate, Potassium and Ammonia plus Nitrate sources of Nitrogen. These Priority Pollutants must be removed by the publicly owned waste water treatment plant so as to be compliant with the plant's discharge permit. Unfortunately this drives up the cost of the operation of the plant at the public's expense.

Power Plant has technology which mitigates these aforementioned problems as follows:

1. Energy- Power Plant's methodology uses supplemental lighting technology in conjunction with its custom hybrid Greenhouses reduces energy consumption by 90%. Additionally we are committed to the implementation of 100% solar power as we build out the infrastructure of our facility and power the Greenhouses.
2. Pollution from spent nutrient solutions- Power Plant will use advanced agronomics technology to improve uptake efficiency and thereby reduce the concentration of nutrients. All nutrients will be derived from organic inputs. Additionally, by chemically analyzing each nutrient species and replacing only the species depleted by plant uptake we are able to recycle our nutrient solutions. Recycling our nutrient solutions just five times will reduce the discharge of Priority Pollutant load by 90% compared to typical cannabis cultivation, especially indoors.