

Israel's largest Cannabis farm harnesses technology to boost year round yield

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An Israeli producer operating Israel's largest cannabis farm has partnered with Fluence, a leading global supplier of energy-efficient LED lighting solutions for commercial cannabis and food crop production. Green Fields' 42,000 square meter facility has increased yields, improved THC and terpene content, and achieved consistent crop growth throughout the year with Fluence's technology.

Green Fields collaborated with REMY, Fluence's Israeli distribution and integration partner, to select VYPR 3p lighting fixtures. Featuring BROAD R3 spectrum technology, these provide a spectrum designed to enhance and reproduce natural sunlight in greenhouses. Combined with the facility's F-CLEAN[®] technology – a fluoropolymer sheet that transmits the full spectrum of natural sunlight during the day – the VYPR 3p devices allow Green Fields to maximize lighting conditions to achieve maximum growth whatever the season.

Each zone of the Green Fields model greenhouse is equipped with a special air handling unit that stabilizes humidity, temperature and air circulation to reduce microclimates and improve uniformity. The responsible team uses innovative monitoring technology to control other critical aspects of the crop, including root zone management and irrigation. REMY experts and Fluence's in-house team of horticultural lighting experts help the Green Fields agronomic team adjust and optimize light intensity, photo-acclimation, pest control, irrigation strategies and processing of mother plant stocks.

Green Fields greenhouses are equipped with the largest agronomic lighting system ever installed in Israel. Since deploying Fluence lamps, Green Fields harvests 15 to 18 tons of cannabis per year.