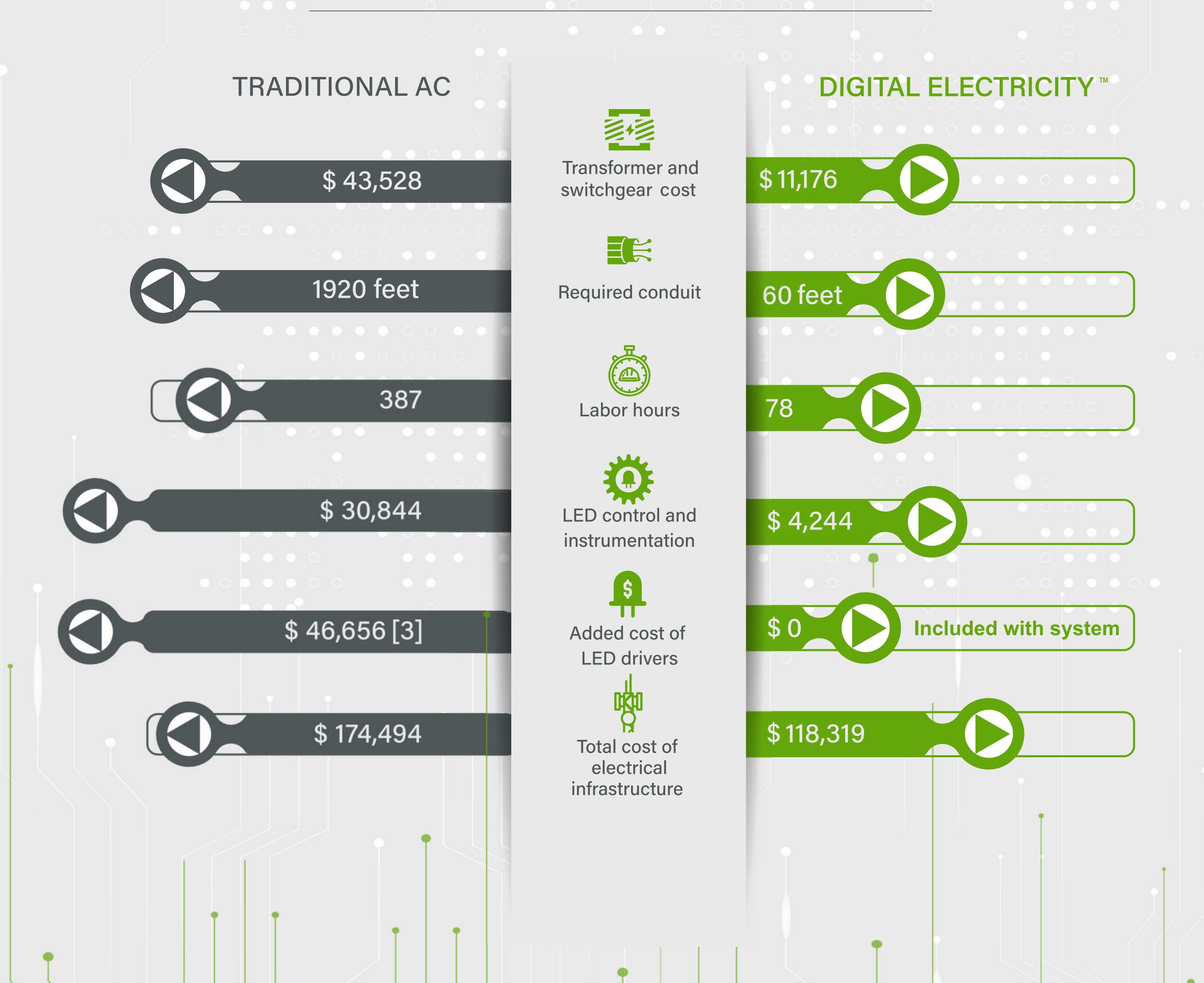


The main challenge for the indoor farming industry is building costs. [1] Up to 50% of the cost of building a cultivation room is delivering light to plants.[2]

Digital Electricity™ is a listed IEC 62368-1 Limited Power Source, allowing growers to deliver high-voltage electricity from their electrical room to horticulture LEDs using 18 AWG communication cable, typically without conduit. This reduces construction costs by up to \$25/sf of canopy, increases the speed of installation by around 80%, dramatically increases the reliability of LEDs, and includes best-in-class LED control and performance monitoring.

Below is a summary of a study that estimates the cost of delivering light to plants for a model farm two flower rooms, each room as 96, 720W LEDs and the rooms on rotating lighting schedules.

OF INSTALLING TRADITIONAL AC VERSUS DIGITAL ELECTRICITY ™



Comparing Traditional AC to Digital Electricity™ Benefits

	Traditional AC	Digital Electricity [™]
Remote monitoring of individual LED performance		
Improved airflow above LEDs from removing drivers		
More reliable LEDs by reducing drivers and connections		
Reduction of Total Harmonic Distortion (THD)		
In-rush control		
Much more favorable tax treatment (check with your CPA)		
Software control		

"It took us more time to unpack the boxes than to install the Digital Electricity™ system...It really did!"

- Bill Garrock, President of Cunningham Electric

"The ability to eliminate the standard conduit of electrical distribution infrastructure and replace that with a simple cable basketing and multi-conductor cables, [allows us to be] much quicker to market."

- Chris Murray, Master Electrician and Facility Manager of Greenseal Cannabis

References [1] Benke, Kurt, and Bruce Tompkins. "Future Food-production Systems: Vertical Farming and Controlled-environment Agriculture." Sustainability: Science, Practice and Policy. 13, no. 1 [2] Eaves, James, and Stephen Eaves. "Comparing the Profitability of a Greenhouse to a Vertical Farm in Quebec." Canadian Journal of Agricultural Economics/Revuecanadienne d'agroeconomie 66, no. 1 (2018): 43-54. [3] Assumes \$243 per 720W driver for the traditional LEDs.