

Construction of Sustainable High-Tech Greenhouse

Total Annual Expenses= \$120,000 + \$ 317,000
= \$437,000

Net Profit = \$1,052,000-437,000

= \$615,000 Annual Net Profit with Bank Loan

ROI : With Angel Investor \$2,000,000/\$615,000= 3.25 years + 6 month construction

ROI = 3.75- 4 years

This project aims to create a business model and construction estimate in order to assess the viability of upgrading from conventional farming to a high-tech sustainable greenhouse. For the intended purposes this paper will make the assumption that a farmer that already owns their own land could use this as a guideline for what they could expect from a high-tech greenhouse in terms of both profits and expenses. Between my business plan, and my partners BIM model, we aim to make visualizing what a high-tech sustainable greenhouse could look like for a prospective farmer. The papers results are based on how this system would perform in a Southern California Climate Zone, but modifications could be made to adjust the numbers to any other climate zone.

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