ILLUSTRATIVE EXAMPLE - ASSUMED FIGURES, NOT A CLIENT RESULT

Would this system pay for itself?

Technology & Investment Assessment
Hypothetical root-zone oxygenation system for a 10-acre greenhouse.

Example input	Assumed value
Equipment cost	$185,000 CAD
Growing area / equipment cost per acre	10 acres / $18,500
Net annual benefit after ongoing costs	$20,000 CAD
Estimated simple payback	$185,000 / $20,000 = **9.3 years**

EXAMPLE NEXT STEP

Test the benefit before committing.

The investment case depends on a local benefit that has not been demonstrated in this example. A defined comparison would help establish whether the proposed system offers enough value to justify wider use.

WHAT A REAL ASSESSMENT WOULD ESTABLISH

1. **Evidence:** What did the original trials measure, and under which growing conditions?
2. **Local fit:** Do your records and measurements show a relevant opportunity?
3. **Economics:** What benefit would cover the full installed and ongoing costs?

No study finding, yield forecast, measured oxygen level, equipment lifespan, or customer saving is asserted in this sample.

ILLUSTRATIVE EXAMPLE - ASSUMED FIGURES, NOT A CLIENT RESULT

What would we check?

This page shows the evidence questions behind the recommendation. A commissioned assessment would include the actual sources, findings, and client records.

Evidence question	Information to assess
What supports the supplier claim?	Original studies, full results, comparison groups, sample sizes, and trial conditions.
Does the trial match this greenhouse?	Crop variety, substrate, irrigation, root-zone conditions, season, and growing area.
What do the existing records show?	Climate and irrigation records aligned with crop stage and harvest data.
What measurement would settle the question?	Relevant oxygen measurements and records of root-zone conditions, if needed to assess the proposed benefit.
What could explain a different result?	Differences in crop, light, temperature, water, treatment, or measurement quality.
What would make a useful local comparison?	An agreed comparison, practical measurements, a suitable trial period, and success criteria.

WORKING WITH YOUR TEAM

AgriFuseAI provides the evidence assessment and trial logic. Your grower and chosen technology, controls, or laboratory specialists contribute the operational and measurement expertise needed for the next step.

What you receive: Clear findings, the reasons behind them, remaining questions, and recommended next steps.

ILLUSTRATIVE EXAMPLE - ASSUMED FIGURES, NOT A CLIENT RESULT

How much benefit is enough?

Simple payback compares the upfront cost with the annual net benefit. Changing the benefit assumption changes the investment decision.

Assumed net annual benefit	Simple payback
$10,000 CAD	18.5 years
$20,000 CAD	9.3 years
$40,000 CAD	4.6 years

A USEFUL CHECK ON AN EIGHT-MONTH CLAIM

At a $185,000 upfront cost, an eight-month simple payback would require **$277,500 in annual net benefit**. The assessment would examine the evidence for that benefit under your growing conditions.

ASSUMPTIONS TO CONFIRM

All amounts are hypothetical CAD values. Net annual benefit means added margin or savings after ongoing costs. The model assumes the same benefit each year. It excludes financing, taxes, discounting, and resale value. Installation, maintenance, service needs, useful life, and downtime must be checked before an actual investment decision.

RECOMMENDED NEXT STEPS IN THIS EXAMPLE

1. Obtain the complete installed-price quotation and supporting evidence.
2. Review the greenhouse records and agree any targeted measurement.
3. Define a useful local comparison with the growing team.
4. Recalculate the investment case using the observed result and complete costs.

Have a proposal to assess?
Visit agrifuse.ai or email Jasneet.singh@agrifuse.ai.