





Financing Biochar Production Facilities:

Financing in Practice

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THE CAPITAL STACK:

BUILDING BLOCKS OF BIOCHAR PROJECT FINANCE

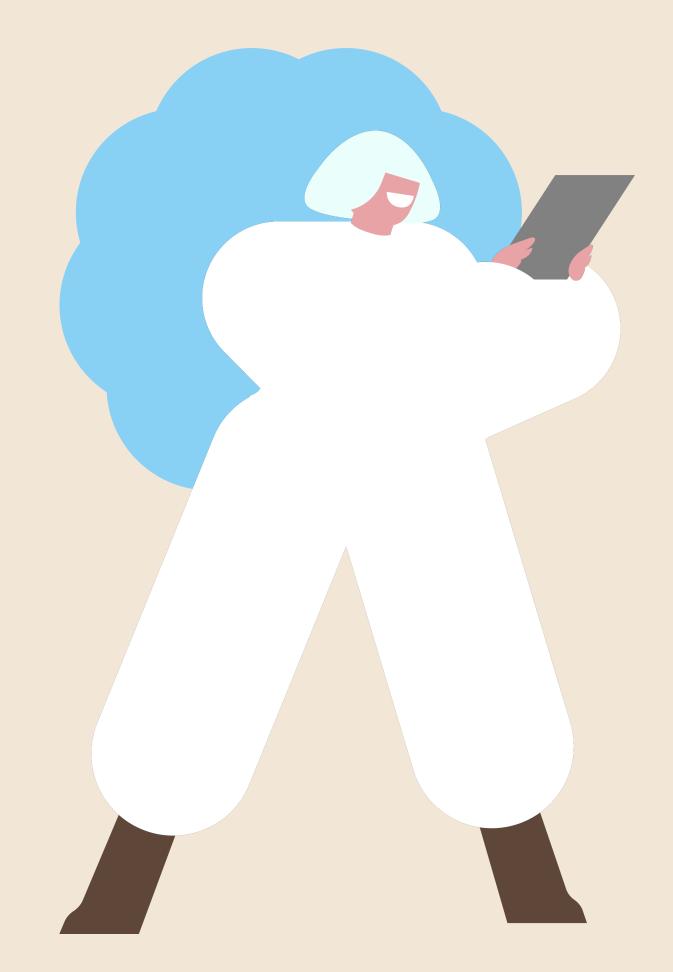


CARBON REMOVAL
CREDIT PRE-PURCHASE

JUNIOR DEBT

BANK LOANS

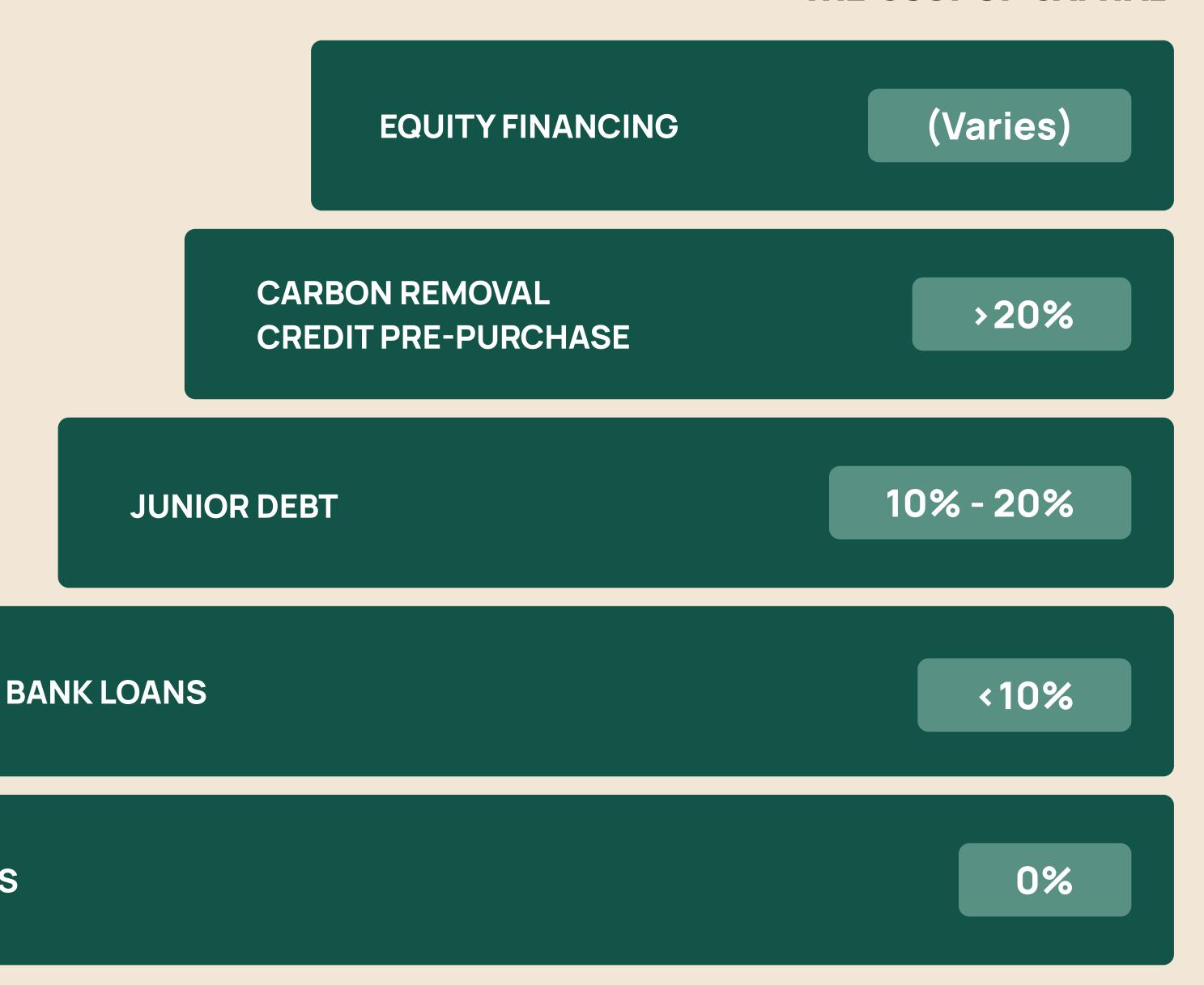
GRANTS

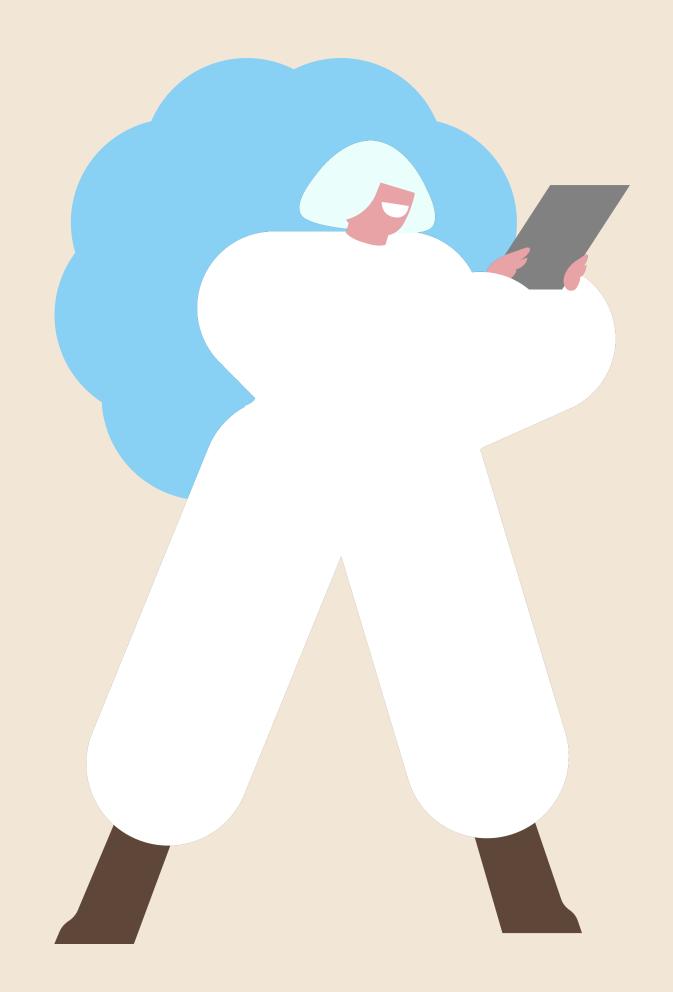




BUILDING BLOCKS OF BIOCHAR PROJECT FINANCE

THE COST OF CAPITAL:





GRANTS

OPTIONS WITHIN THE CAPITAL STACK

EQUITY FINANCING

Philantropic

Private Equity

Venture Capital

Multiple in invested capital target

1x to 2x

2x to 4x

5x to 10x+

PRE-PURCHASE

Model

Credit Price in comparison to Market (i.e. CORCX index)

Speed

Direct to business

Discount to market prices

Slow, one corporate buyer

Credit sales through partner

Discount to market prices, commission paid to sales partner

Faster, sometimes multiple buyers

Credit streaming agreement

Cash up front for credit representation; you receive a royalty on realized price

Fastest, pre-secured demand

JUNIOR DEBT

Generally uncommon

BANK LOANS

Most common types:

USDA Rural Development

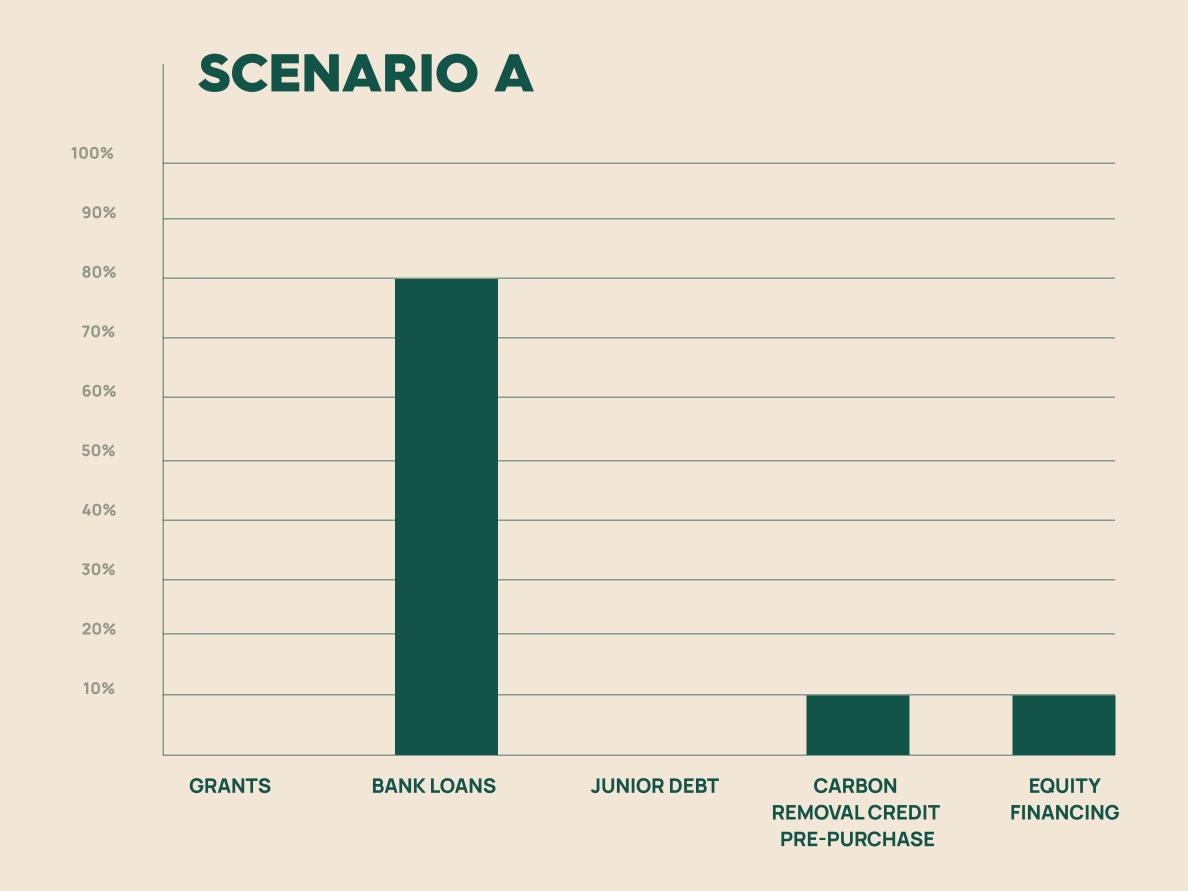
USDA Business & Industry

Small business administration (SBA) Loans

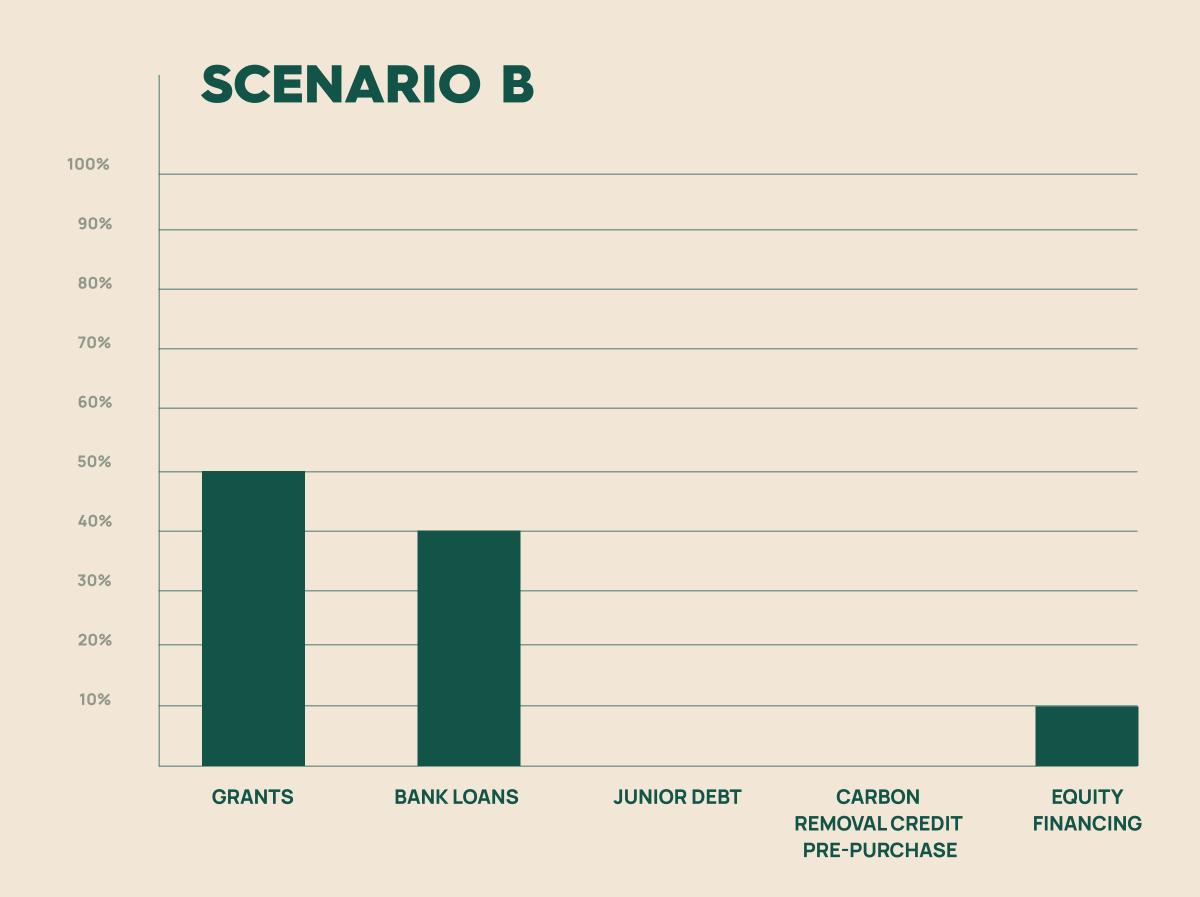
GRANTS

Opportunities are project specific. Here are some great resources Resources: <u>US Forestry Service</u>, <u>Open</u> <u>Grants, Grants.gov</u>, <u>SBIR.gov</u>, <u>stateincentives.org</u>, the <u>EPA</u>, <u>Climateworks.org</u>

WHAT WORKS? THE RIGHT MIX!



Banks loan with 20% capital from Equity & Carbon Removal Credit Pre-Purchase



Grants with matching funds



FINANCING IN PRACTICE*

*The following examples are drawn from experience and designed to illustrate the discussed concepts. No specific project is the subject in either scenario.



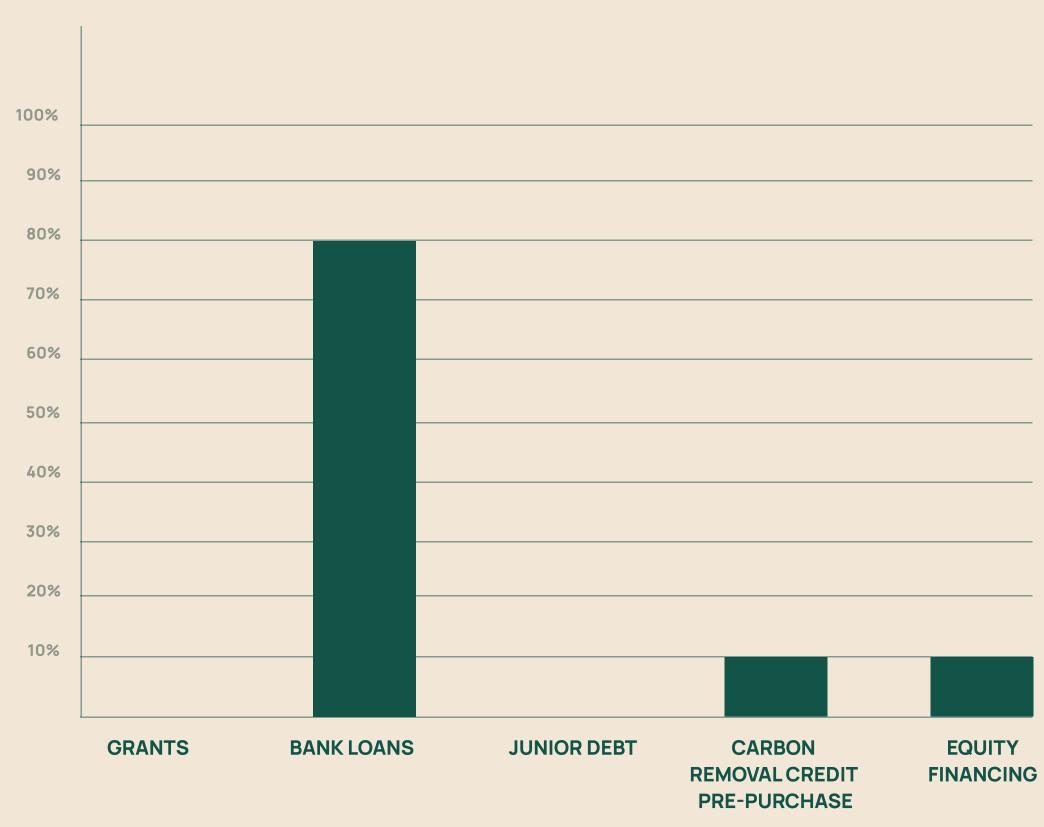
SCENARIO A - EXAMPLE

In this example, a food processing plant plans to convert peels and other food waste residues into biochar. They plan to install a stationary pyrolysis unit to manage the total food residues produced by the facility.

Agreement

USES:







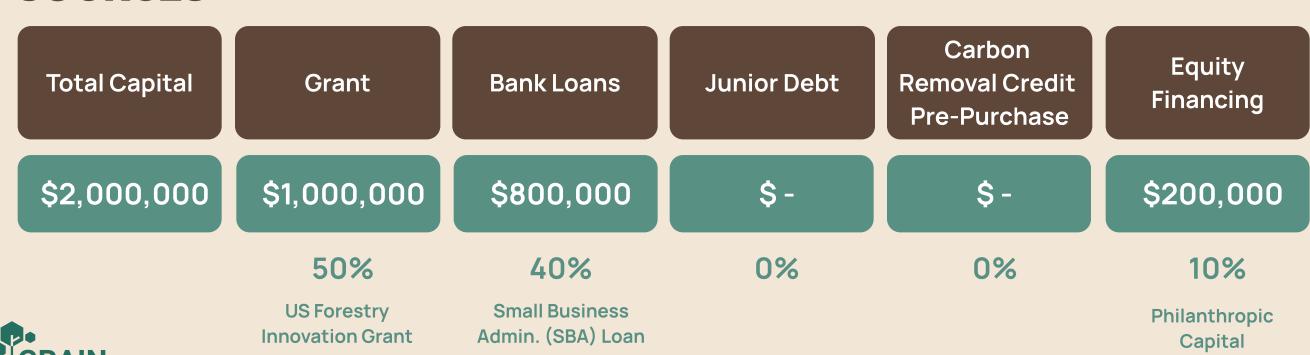
SCENARIO B - EXAMPLE

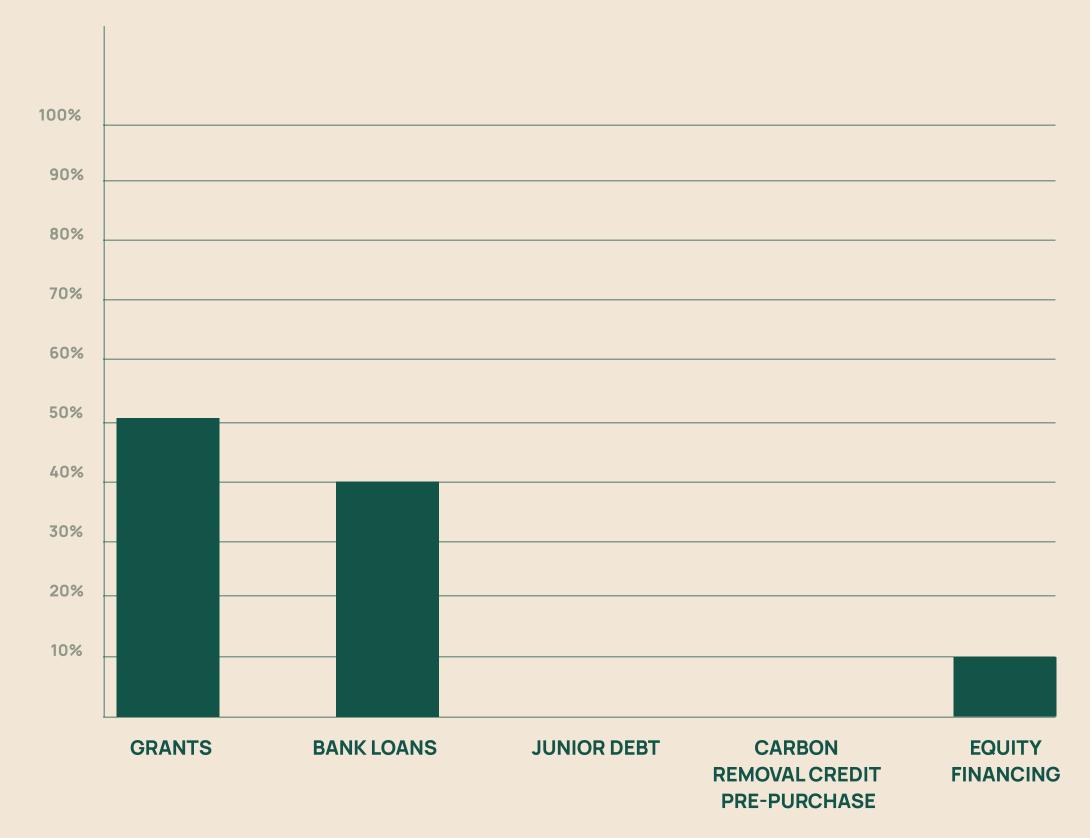
In this example, a company is working to remove forestry by-products generated by forest management activities. They are working in alignment with a statewide initiative to find new ways of preventing forest fires in their community.

USES:



SOURCES:

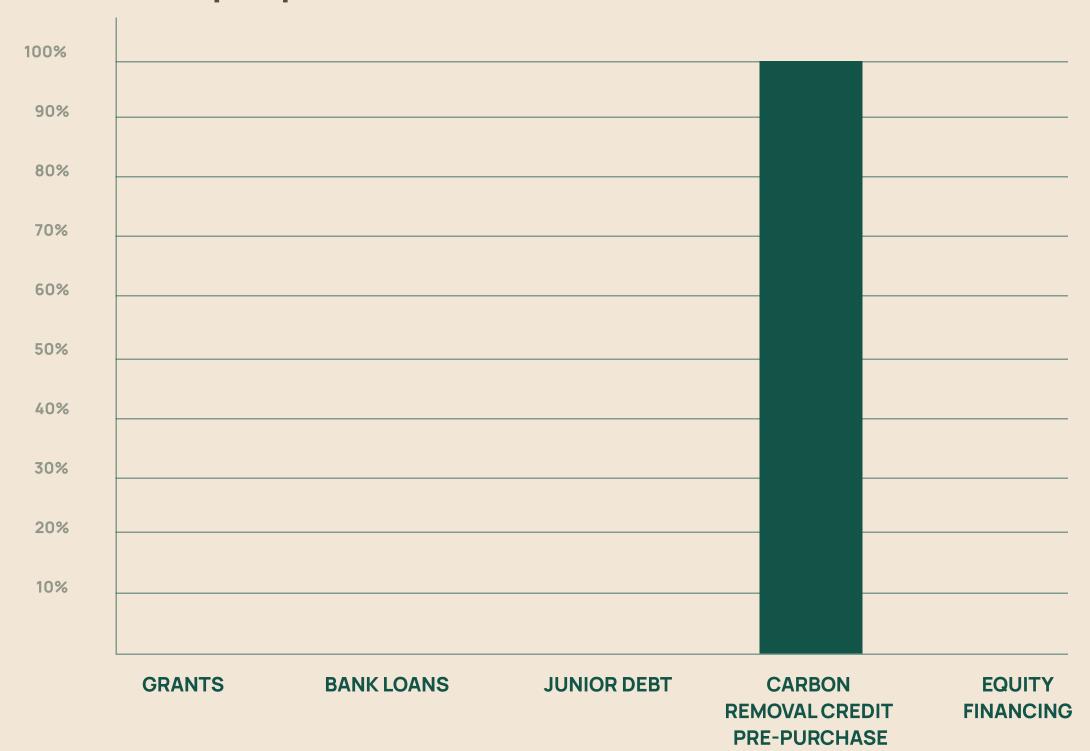






WHAT DOESN'T WORK TODAY?

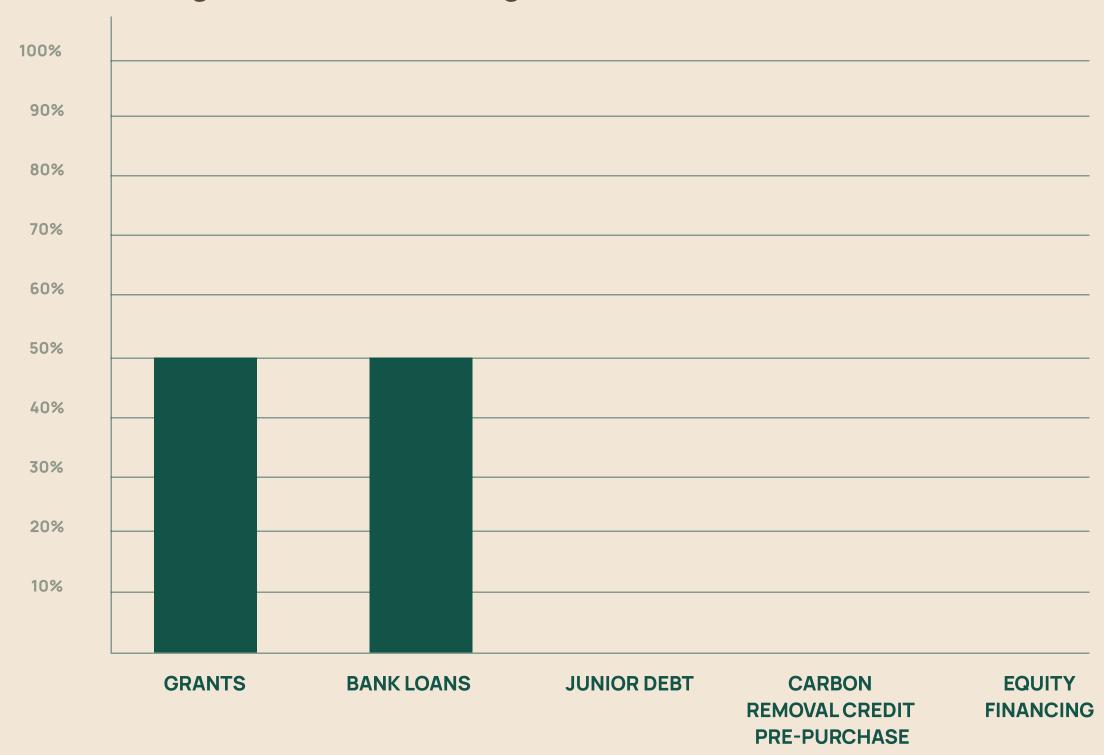
100% pre-purchase



MHA5

Too much risk for a buyer at the current market price points. There are no other stakeholders ensuring the project is executed and delivers credits on time and according to plan.

50% grant with matching funds / 50% bank loan



MHA₅

It creates a perpetual loop of waiting for the other to go first:

- Banks have different requirements on how much capital you must have on- hand before issuing a loan.
- Grants will want to have matching funds allocated to the awardee before issuing grant capital



WHAT DOESN'T WORK TODAY?

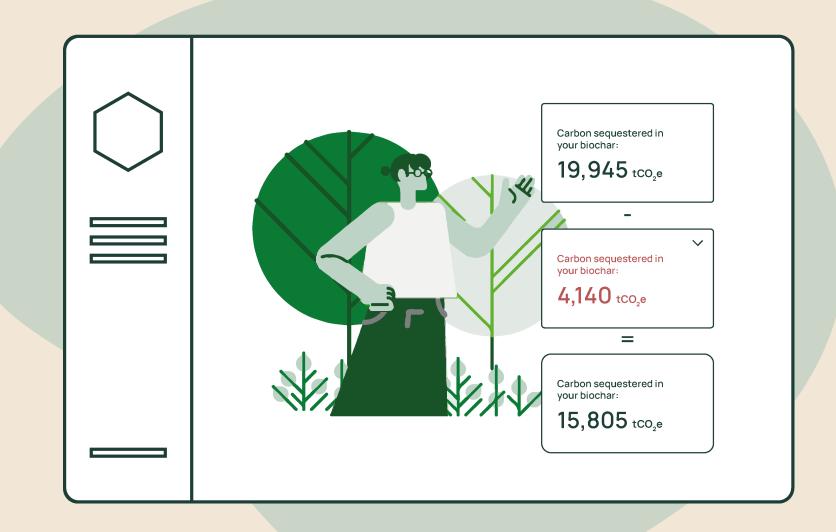
- 1. SUPPLY CHAIN: Don't just show you have access to feedstock or a property with photos, get documented proof
 - a. Historical production logs showing waste material
 - b. Legal documents showing your right to the feedstock
 - c. Contract written by legal counsel experienced in biomass procurement
- 2. EQUIPMENT: Select your equipment first. Build a plan for the capital you will need and stick to
 - it. Don't have multiple equipment options based on the money you think you could raise. Why?
 - a. Investors see a lack of commitment to a plan as uncertainty. Investors like certainty and to invest in a committed plan.
 - b. Technologies are at different stages of market maturity. Introducing "unproven" technology will create additional uncertainty, even if presented as an option.
- 3. BIOCHAR OFFTAKE: Don't assume your targeted farmers are aware of Code 808 and willing to apply your char.
 - a. Connect with local universities working on soil amendment research.
 - b. Join local working groups of farmer communities to participate in education about the uses of biochar.
- 4. CARBON CREDITS: Investors are looking for assurance that the project revenues will be generated and/or are secured

Partner with a carbon expert who can support your carbon needs and communicate with investors

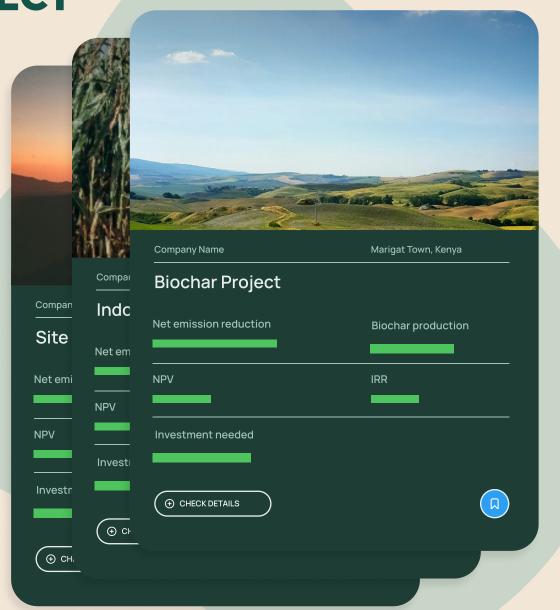


READY TO BUILD YOUR CAPITAL STACK?

GHG CALCULATOR & PROFITABILITY







COME BY THE BOOTH FOR A GRAIN DEMO!





