



**TREFADDER**

Premium carbon capture and biodiversity

# Why Trefadder Plants Climate Forests in Norway

A high-integrity, scalable and nature-based climate solution.

# Introduction to Trefadder

## We offer a solution

**As the effects of climate change grow more visible and urgent, the global need for high-integrity carbon removal solutions has never been greater.** Reducing emissions alone is no longer enough - we must actively remove carbon from the atmosphere in ways that are credible, transparent, and lasting.

Among the most promising approaches are nature-based solutions, especially afforestation - the planting of new forests where there were none before. Trees have an unmatched ability to absorb and store CO<sub>2</sub> over time, while also contributing to richer biodiversity, healthier ecosystems, and climate resilience. But while planting trees may appear simple on the surface, doing it right - in a way that ensures the carbon stays locked away for decades, that ecosystems flourish rather than suffer, and that the process can be scaled with confidence - requires science, structure, and stewardship.

**At Trefadder, we don't just plant trees - we design climate forests.** These are forests specifically created for long-term carbon storage, biodiversity enhancement, and environmental integrity. Every project is guided by rigorous ecological analysis, monitored with modern technology, and supported by one of the world's most transparent and stable regulatory systems.

**Our current large-scale afforestation projects are based in Norway, and this is no coincidence.** Norway offers a rare convergence of factors - cool climate, rich soils, strong governance, and large underused land areas - that make it an ideal location for launching climate-focused forestry. Planting here enables us to build a strong, reliable foundation - one that supports both climate goals and public trust.

**This paper outlines the reasons we chose to begin in Norway** - and how the Trefadder model is built not just for local impact, but to scale globally, with the same standards of quality, integrity, and long-term thinking.



# Why Start in Norway?

## The world's best conditions for climate forests

**When it comes to planting forests that truly make a climate impact, location matters. A lot.** At Trefadder, we chose to start in Norway because it offers a unique blend of environmental, legal, and logistical advantages that set the stage for long-term, high-integrity carbon removal.

**Norway's cool and stable climate plays a powerful role in carbon retention.** Unlike warmer regions where heat, drought, and wildfires threaten the permanence of carbon sinks, Norway offers consistent moisture and cold conditions that slow down the decomposition of organic matter - allowing carbon to stay stored in both biomass and soil for longer periods.

Just as important is the quality of the land itself. Norway's forest soils are naturally rich in organic carbon and highly suitable for native conifer species like spruce and pine, which are both resilient and fast-growing in this environment. The country also has vast, underutilized areas - nearly a million hectares of land - that can be reforested without conflicting with agriculture, conservation, or indigenous land use.

Another key factor? Trust. The strength of Norwegian institutions means we operate in a setting where contracts are enforceable, property rights are clear, and transparency is built into every step. This allows us to avoid many of the governance and reputational risks often associated with tropical offset projects.

**We're not planting in Norway because it's easy - we're planting here because it's smart.** It gives us the most solid foundation to build forests that truly deliver on their climate promise. And from that foundation, we're ready to grow.

## DID YOU KNOW that...

**...cold climates help trees store carbon longer by slowing decomposition in the soil?**

Norway offers a rare combination of features that make it ideal for carbon-focused afforestation:

- **Cool, stable climate:** Reduces the risk of fire, pests, and drought - all major threats to carbon permanence in warmer regions.
- **High soil quality:** Norwegian forest soils are naturally rich in organic carbon and ideal for species like spruce and pine.
- **Large underutilized areas:** Up to 960,000 hectares of previously unforested land are suitable for climate forest development, without displacing farmland or indigenous use.
- **No tropical offset risks:** Norway's governance, transparency, and land use stability contrast with the uncertainties often seen in Global South offset projects.

**Our decision to plant in Norway is not exclusive - but strategic. It gives us the strongest possible starting point.**

# Built on Law, Science, and Transparency

## Climate forests backed by law, audited by science

**At Trefadder, we believe real climate impact requires more than just good intentions - it demands rigorous standards, scientific integrity, and legal accountability.**

That's why our afforestation model is grounded in one of the world's most robust regulatory environments.

**Norway offers a uniquely transparent and enforceable legal framework for climate forestry.** Every forest we plant is supported by legally binding agreements and formally registered with national authorities. This ensures continuity, oversight, and long-term protection of climate benefits.

Beyond legality, our methods are rooted in science. We follow a government-endorsed carbon accounting methodology co-developed with top environmental research institutions and backed by significant public funding. From planting to monitoring, every step is auditable, certified, and traceable.

**This fusion of law and science is not just a foundation - it's a safeguard.**

In a market where credibility is critical, Trefadder's forests stand out as a reliable, verifiable, and lasting climate solution.



## DID YOU KNOW that...

**...all of Trefadder's planting contracts are legally binding and registered with Norwegian authorities?**

Our projects are anchored in a world-leading regulatory and institutional framework:

- **PEFC-certified** forest management with mandatory replanting after harvest.
- **Tinglysning (title registration)** ensures project security for generations.
- **Government-endorsed carbon accounting method:** Developed with Miljødirektoratet and NIBIO and backed by over 50 million NOK in public R&D.
- **Third-party auditing** under ISO 14001 and ISO 14064-2.

**This legal backbone provides unmatched integrity, trust, and traceability - key criteria for responsible climate action.**

# Measurable and Verifiable

## Transparent and trackable carbon

**At Trefadder, we believe carbon removal must be more than a promise** - it must be measurable, verifiable, and built to withstand real-world scrutiny. That's why every climate forest we plant is backed by data-driven planning and rigorous monitoring at every stage.

**We begin with high-resolution ecological analysis to identify optimal planting sites** - evaluating 25 factors from soil quality to slope and biodiversity impact. Planting is done manually, preserving delicate ecosystems and ensuring long-term forest health. Once planted, we use drones, satellite imagery, and on-the-ground inspections to track growth, survival, and carbon uptake over time.

But our commitment to durability goes even further. More than 75% of harvested timber is channeled into long-life construction materials, locking away carbon for decades after a tree is felled. And because nature is unpredictable, we plant 120% of the required trees - building in resilience from the start.

**Every step of this process is documented and available to our clients**, creating a level of traceability rarely seen in the voluntary carbon market. From detailed planting records to independent audits, we equip our partners with clear, confidence-inspiring evidence of real climate impact - ensuring that every tonne removed can be tracked, trusted, and told as a story of genuine environmental progress.

## DID YOU KNOW that...

**...Trefadder plants 120% of the required trees to compensate for natural loss?**

Our afforestation approach is grounded in measurable climate impact:

- **Technical area analysis** identifies optimal planting sites using 25 ecological parameters.
- **Manual planting** to preserve biodiversity and soil structure.
- **Remote and field-based monitoring** with drone, satellite, and ground validation.
- **Carbon storage beyond the forest:** Over 75% of harvested timber is committed to long-life construction use, locking in CO<sub>2</sub> for decades.

**Everything is documented, visible to the customer, and built to withstand scrutiny.**

# Co-Benefits

## Biodiversity, resilience, and community engagement

**Carbon storage is our foundation - but the forests we plant are designed to deliver far more than emissions reductions.** By embracing nature's complexity and working with local communities, Trefadder's climate forests generate a wide range of ecological and social co-benefits that make every project more resilient, inclusive, and future-ready.

**We use mixed planting strategies that support biodiversity - from birds and pollinators to understory plant life - ensuring that each forest becomes a thriving habitat rather than a monoculture.**

Our approach includes deferred felling to protect sensitive life cycles and maintain natural variation in tree age and structure.

Because we only plant on previously unused, low-production land, we avoid land-use conflicts and preserve existing farmland and indigenous use. Our work strengthens - not competes with - local land stewardship.

**Community engagement is a key part of the model:** we collaborate directly with Norwegian landowners, many of whom become long-term partners in our climate mission. Their deep knowledge of the land, combined with our technical expertise, creates forests that are well-managed, well-loved, and built to last.

By working in Norway's cool, wet, and fire-resistant climate, **we further reduce risks and increase the long-term impact of every tree we plant - making our forests strongholds for both climate action and ecological renewal.**

## DID YOU KNOW that...

**...Trefadder's forests support birds, pollinators, and native species through mixed planting and deferred felling?**

While carbon is our core goal, it's not the only one. Our forests:

- **Enhance biodiversity** through native species and structural variation.
- **Avoid land-use conflict** by planting only on non-forested, low-production areas.
- **Engage local communities**, with landowners acting as long-term climate partners.
- **Improve climate resilience**, thanks to Norway's cool, wet, and fire-resistant environment.

# Ready to Scale and Export – Globally

## Designed to scale without compromise

**Trefadder's climate forest model is built not only for depth, but for distance.** While our roots are in Norway, our eyes are on the world. Every element of our afforestation approach - from legal structure to ecological precision - is crafted to scale globally without sacrificing integrity, transparency, or environmental impact.

**Our carbon credits are being developed in line with internationally recognized standards such as Verra and the Gold Standard, ensuring they are market-ready and trusted across borders.** But it's not just about certification - it's about replicability. We've designed a process that is both scientifically sound and operationally viable, making it possible to expand responsibly while keeping quality high.

As climate action ramps up, many are asking: can we do this everywhere? The answer is: not *everywhere*, but in many right places. Our approach is adaptable to other regions where ecological conditions, legal systems, and community frameworks can match the integrity we've achieved in Norway.

### Norway is just the beginning.

The principles we apply here can be adapted to other geographies - when and where conditions support the same level of environmental and social robustness.

## DID YOU KNOW that...

**...Trefadder's climate forest model is designed to scale globally - without compromising environmental integrity or community trust?**

Trefadder's model is designed to grow:

- **Export-ready carbon credits** aligned with international standards (Verra and Gold Standard certifications in progress, 2025).
- **Scientifically and commercially scalable** without compromising quality or local support.
- **Applicable in other regions** where governance and ecology allow for the same level of integrity.





# TREFADDER

Karbonfangst med norsk klimaskog

**By planting climate forests in Norway, Trefadder provides a climate solution that is measurable, durable, and ethically sound. Our model combines the best of nature, science, and law - ensuring that every tree planted makes a real difference.**

In a voluntary carbon market often marked by doubt and short-term thinking, we offer something better: forests that last, benefits that multiply, and a model ready to grow.



Made in Norway.  
Growing for the world.