The construction industry needs to improve its sustainability. Climate change continues to wreak havoc on weather, habitats, and public health. Better building practices can help lead the way to positive changes across the globe. These practices start with construction managers.

As a manager, it's your responsibility to optimize projects for environmental eff ciency by choosing suitable materials, updating training, and improving productivity on a construction site.

The Battle Against Climate Change

Carbon emissions from the construction industry are at an <u>all-time high</u>. The world will always need infrastructure, but its tools, materials, and building processes damage the planet. Emissions have a greenhouse gas effect that can cause extreme weather events, dirty water, air pollution, drought, and rising sea levels.

Construction managers are at the forefront of making the changes necessary to save the world while producing quality buildings, roads, bridges, and other projects. construction workers spent their entire careers with the same machines and techniques. It's important to help them feel comfortable with new ones.

Focus on the purpose behind each change so they are more willing to adjust their practices. Then, thoroughly explain how to go about using new materials, processes, or machinery. Construction is one of the most dangerous professions, thanks to onsite accidents. When employees feel conf dent in their

Training

You can't expect your workforce to implement efficient building practices without teaching them how. Many

Materials

The right building materials can signif cantly cut your company's emissions. The most eff cient materials have as little carbon output as possible in their production and use. Since they cost less to produce, they could save you money.

Bamboo

It's hard to investigate better construction materials without seeing bamboo. That's because it's strong, f exible, and highly sustainable. Bamboo takes little processing and <u>regrows</u> <u>quickly on the same plant</u>, making its production nearly emissions-free.

As it grows, the grass absorbs more carbon from the air than trees. Bamboo is versatile and works well as roofs and support structures.

Reclaimed Wood

Lumber remains one of the most popular building materials, but the climate crisis makes deforestation irresponsible. The transportation and processing of wood to lumber also releases harmful emissions.

Reclaimed wood is an excellent solution for lumber that isn't in use anymore but is still perfectly capable of being used in new structures. Using it prevents the need for new lumber and keeps it from taking up landf II space.

Precast Concrete

Precast concrete is factory-made to exact measurements in slabs, reducing the emissions used to produce traditional concrete. It's incredibly durable, especially in climates that face low temperatures. Since it comes in slabs, builders can f t them together in many forms, including stairs, ceilings, garages, and bridges.

There's evidence that using precast concrete can <u>save billions</u>. of emissions when producing and using traditional concrete.

Adobe

Adobe brick is a centuries-old building technique making a comeback. It uses natural materials like clay and straw to produce sturdy, insulating bricks. No carbon is traditionally needed to produce the material, and they are easy to stack and shape. These bricks are often suitable replacements for lumber, which can help reduce deforestation. Like lumber, it's highly recyclable.

Equipment

The right equipment goes a long way. Before a project, you can create, store, and edit plans via the internet of things (IoT).

2

Instead of worrying about extra products, order solely what the client wants and the amount they want. If you need more materials, you can get more later instead of letting them sit unused, which increases carbon emissions.

You can introduce small sustainable practices for your workers that can make a big difference long-term. Creating in-off ce and onsite recycling programs can reduce the amount of plastic, cardboard, and paper that goes in the trash from lunchboxes, sketches, and more. A clean water source can encourage workers to bring reusable water bottles instead of

3

About the Author

Rose Morrison is a freelance writer with a passion for sustainable building and innovative construction technologies. She has interviewed numerous industry professionals to gain insight into the current challenges facing the built industry and developing strategies for overcoming them.

Rose has over five years' experience writing in the industry and is the current managing editor of <u>Renovated.com</u>. She also regularly contributes to other

4