

TrackerSled[®]

Simplifying Solar Farming to Catalyze.....

Low-Cost Energy and Revitalization of Rural Economies

Farmers, ranchers, or electric co-ops will generate their own power for \$0.045/kWh. With TrackerSled's plug-n-play platforms, they can build a 4.7MW solar farms on 16 acres in weeks, interconnecting to roadside 13v feeders instead of transmission lines. Instead of exporting energy dollars, they will circulate in the local economy.

Local Resiliency and Self-Reliance

By keeping renewable energy in the community that produces it, localities will become more resilient and less dependent on wholesale suppliers. In the coming decade, farmers and ranchers will power their tractors with green hydrogen produced from locally aggregated power.

Ground-Truthing of Regenerative Practices for Profit

With TrackerSled income providing financial headroom, farmers and ranchers will ground-truth regenerative practices on TrackerSled fields to boost profits with lower labor costs, lower fuel costs, and lower input costs. As their acres sequester CO₂, farmers and ranchers will earn additional revenue through emerging carbon credit markets.

Improved Nutrition and Water Quality

As farmers and ranchers incorporate mutually beneficial practices that leverage the contributions from soil microbes, nutrient density of food will return to preindustrial levels. At the same time, soil particles will naturally aggregate, dramatically increasing the rate of rainwater infiltration. The decreased runoff and reduction of macronutrients in downstream waterways will improve water quality for everyone downstream.

Drawing Down Carbon to Mitigate Climate Change

As farmers and ranchers profit from sequestering carbon, they will bank carbon in the US's largest carbon sink - our soils. If US farmers and ranchers increase their soil carbon by 3 percent and 2 percent respectively, they will sequester over a third of the atmospheric carbon released since the dawn of the Industrial Revolution.

Visit <https://trackersled.com> for more information

A TrackerSled is a pre-engineered modular platform that simplifies solar farming, allowing farmers, ranchers, and cooperatives to build solar farms themselves.

TrackerSleds are bilaterally symmetrical plug-n-play units that link together to generate clean energy on dual-use agricultural fields. Each TrackerSled photovoltaic modules racked together in prefabricated rows. TrackerSleds are agnostic to topography and underground conditions, making just about any piece of farm or grazing land a candidate for dual-use farming.

Instead of building solar farms with thousands of pieces placed by hand, crews will assemble TrackerSleds from 16 prefabricated components in weeks instead of months.

Lawrence Kearns, FAIA, a Chicago architect, developed TrackerSled for the Department of Energy Solar Prize in 2020, winning \$225,000 to realize a full-scale prototype. As a DOE grantee, TrackerSled is developing a second generation 16.7kW model with no moving parts. At scale, TrackerSleds cost \$2/watt installed without energy storage.



A 11.2kW TrackerSled pilot operating at Granor Farm, Three Oaks, Michigan