"AgMonitor created a digital twin of our dairy in Riverdale and we found a leak at our dairy. We fixed and saw our energy use going down. RanchMonitor really helped us adjust rates every year, rain or shine, to fight inflation and keep our pumping cost low."

DANIEL VAN DER KOOI, THIRD GENERATION DAIRY FARMER IN RIVERDALE

RESULTS

- ✓ One-stop place to manage all energy and water assets
- ✓ Comparison of water costs for wells and turnouts
- ✓ **Energy efficiency project saved money the 1st year at the well pump of the dairy**
- ✓ Utility rate adjustments across solar "NEMA" group
- ✓ What if scenarios to see the benefit to break a NEMA group at dairy and add a 2nd NEMA group for well pumps
- ✓ Tracking of ground water extraction in Ac-Ft/Ac to implement GSA restrictions

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CUSTOMER CASE STUDY

Dairy in NFKGSA picked AgMonitor to better integrate solar and reduce cost of groundwater pumping

The Challenge

Van der Kooi Dairy needed help to better manage their solar investments and also get a true cost of groundwater to compare with the cost of their surface water allocation. It is not simple because solar credits rom the solar generator are shared across multiple meters (dairy building and well pumps). The PumpMonitor and RanchMonitor modules are the perfect solution for this application.

The Solution

The Van Der Kooi family started dairying in 1950 in Artesia, and moved to Riverdale in 2007. Today the dairy is owned by Charlie Van Der Kooi and his sons, Daniel and Justin, fourth-generation dairymen. They are part of the California Dairies cooperative. It is a family affair and Daniel double-checked that his father was going to get what he needs before he signs up to an annual subscription of **PumpMonitor™**: the the cost of water per well in addition to pump health alerts and annual rate recommendations for the meters under Net Energy Meter Aggregation.

The RanchMonitor™ module found that the dairy should stay under legacy rates (AG4C) but adjust rates depending whether it was a wet year (lower energy load) or a dry year (higher energy load). AgMonitor started to have an annual meeting each February to adjust rates.

They noted that the cost of water varied across pumps and they retrofitted some of the wells. They also added a submeter on a LoRa network to track the well pump at the dairy. They found a leak. They fixed it and added a VFD controller. This reduced energy use by 30%.

It was then time to integrate a 2nd property and a 2nd solar array.