

Who is Arch Environmental?

*manufacturer and worldwide distributor of preferred bulk conveyor components since 1975

Mechanical Division

Belt Cleaners • Belt Alignment • Sealing Systems • Dust Control Systems • Impact/Slider Systems

Electrical Division

Belt Scales • Metal Detectors • Pull Cord Switches • Belt Protection Devices • Conveyor Control Systems

*facilities include a fabrication shop, a CNC machine shop, and state-of-the-art urethane production



A self-generating power source that can be used immediately or stored for future use without draining current system.

Improves safety & security by providing lighting and security camera day and night.

Produces energy without any byproducts, reducing energy consumption for CO2-producing power plants.

Improves material blending and material segregation.

Can power down conveyor in case of emergency.

Is prepared to meet current and future **sustainability certification requirements.**

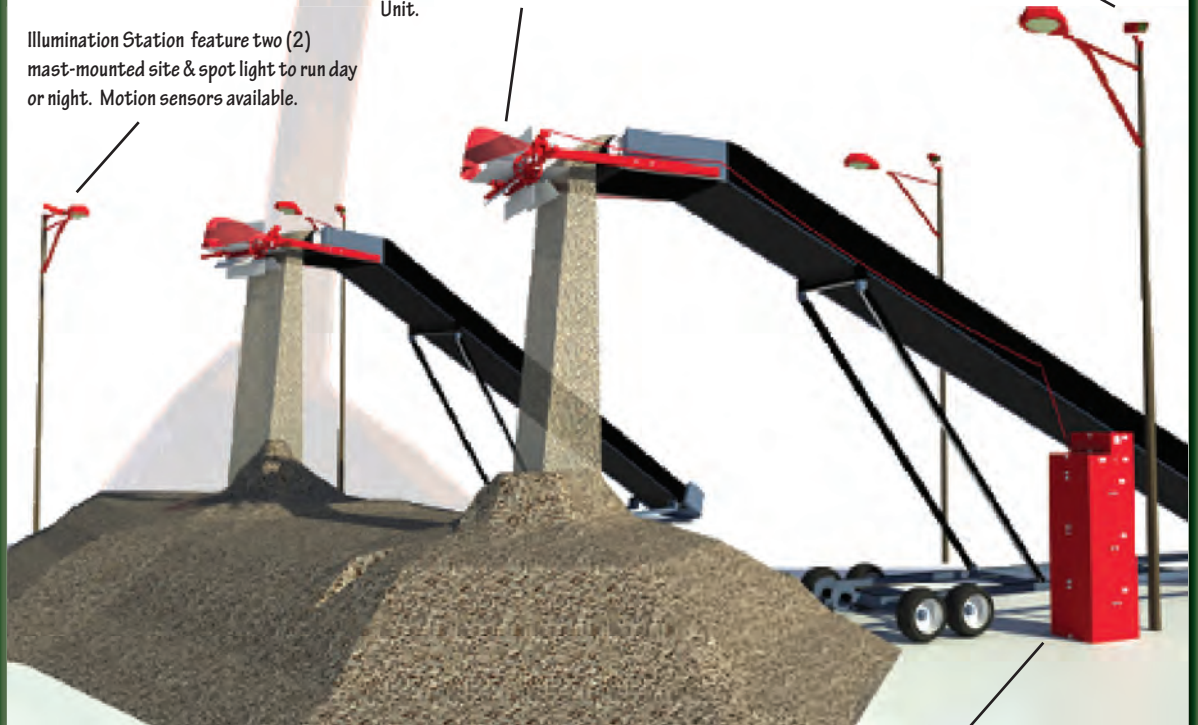
DEH-powered ArchWeigh belt scale conveniently monitors and records material flow.

DEAN ENERGY HARVESTER

Power Rotor spins as a result of material falling on blades and accelerates to maximum velocity generating kinetic energy to be stored or distributed to Power Storage Unit.

Illumination Station feature two (2) mast-mounted site & spot light to run day or night. Motion sensors available.

Vision Station features a video camera to record drop-zone activity day or night. Footage can be viewed real-time via ethernet connection or saved via built-in SD card slot



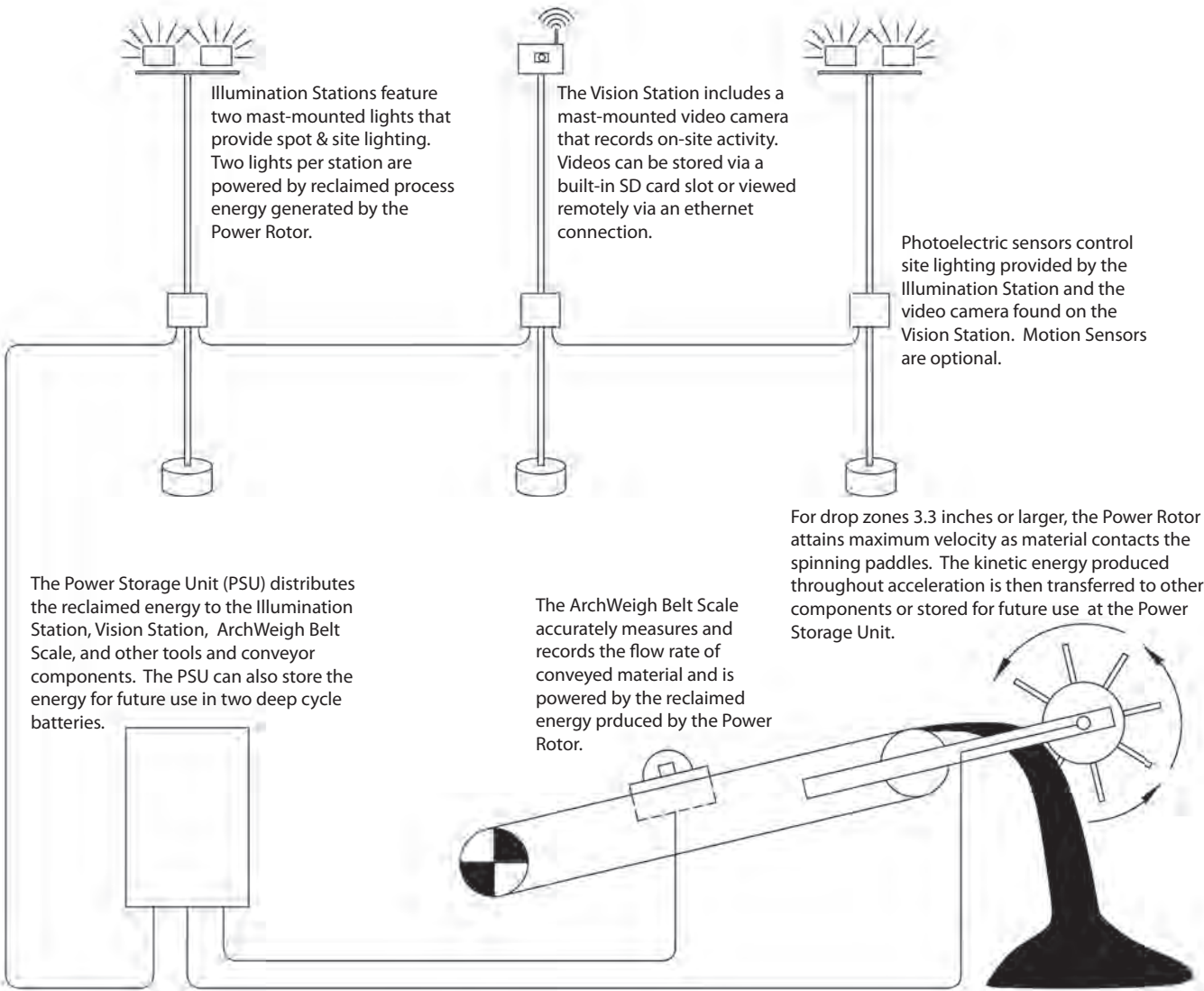
Power Storage Unit stores and distributes kinetic energy generated by Power Rotor for immediate or future use.

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(Conveying Confidence)



DEAN ENERGY HARVESTER



Illumination Stations feature two mast-mounted lights that provide spot & site lighting. Two lights per station are powered by reclaimed process energy generated by the Power Rotor.

The Vision Station includes a mast-mounted video camera that records on-site activity. Videos can be stored via a built-in SD card slot or viewed remotely via an ethernet connection.

Photoelectric sensors control site lighting provided by the Illumination Station and the video camera found on the Vision Station. Motion Sensors are optional.

The Power Storage Unit (PSU) distributes the reclaimed energy to the Illumination Station, Vision Station, ArchWeigh Belt Scale, and other tools and conveyor components. The PSU can also store the energy for future use in two deep cycle batteries.

The ArchWeigh Belt Scale accurately measures and records the flow rate of conveyed material and is powered by the reclaimed energy produced by the Power Rotor.

For drop zones 3.3 inches or larger, the Power Rotor attains maximum velocity as material contacts the spinning paddles. The kinetic energy produced throughout acceleration is then transferred to other components or stored for future use at the Power Storage Unit.

Patent Pending

