



FIELD PROOF · FROST ON THE LINE

GET IT COLD.

Colder gas. More NGLs. Less dirty flare.

+65%

NGL RECOVERY

30 kWe

ON-SITE POWER

LESS FLARE

NOX · CO2 · THC

SAME DAY

JT SKID UPGRADE

HOW IT WORKS

BYPASS THE JT VALVE.

JT plants throttle gas across a valve to create cooling. That pressure drop is wasted energy. Radius1 ties into the existing JT plant and converts the same pressure energy into shaft power.

Removing energy from the stream drives colder temperatures than a JT valve alone. Colder gas means more propane and natural gasoline drop out — up to 65% more NGL recovery — so less rich gas hits the flare.

CUTTING-EDGE TECHNOLOGY

BUILT FOR THE WELLHEAD.

- Rotary PD, low speed — under 4,000 rpm
- Variable-speed generator, 4:1 turndown
- Self-cleaning — no hydrate / scale freeze-up
- Oil-free rotors for total-flow (wet or dry) gas
- Rated 1,440 MAWP · -50°F service
- NEC Class I, Div II · API design standards
- Fully automated + Starlink remote monitoring
- Originally proven offshore for Pemex

01 TIE IN

Same-day hookup to your JT skid. Isolation valves auto-bypass if the expander is offline.

02 EXPAND

Low-speed rotary PD expander. Self-cleaning rotors handle wet field gas without freeze-up.

03 RECOVER

Colder outlet. Higher NGL yield. 30 kWe for heat, cameras, lights, or pumpjack offset.

2 MMSCFD · PRODUCT SPECIFICATIONS

FLOWRATE

2 MMSCFD

MECHANICAL POWER

40 HP @ 1,000 psi ΔP

FLARE IMPACT

Lower NOx, CO2, THC

SKID SIZE

12' L × 7' W × 4.5' H

WORKING FLUID

Any field gas, wet or dry

MAX ΔP

1,000 psi

ELECTRIC OUTPUT

30 kWe

NOISE

<68 dBA at 33 ft

VOLUME RATIO

2:1

CERTIFICATIONS

NEC C1D2 · ASME U