

HORIZON

engineering

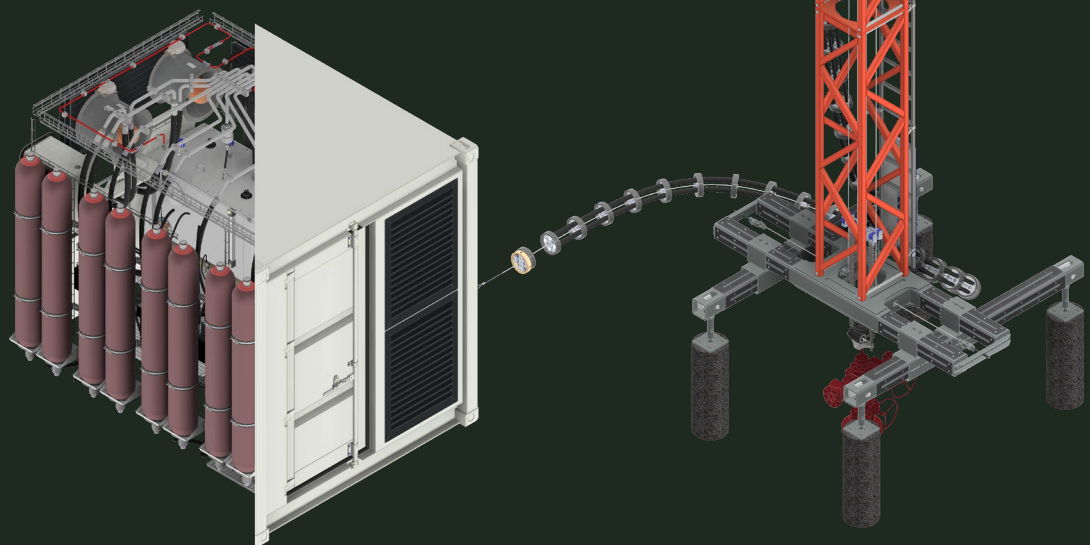
Artificial Lift

Energy Recovery System

power of hydraulics combined with
automated electronic solutions

smarter. stronger. saver.

international patent pending



SWISS MADE

PUMP STRUCTURE SYSTEM

PPRL

40'000 LBF

PRESSURE

5'000 PSI

STROKE

240"

CYCLE (SPM)

2.5



ADAPTIVE MOTION CONTROL

Independent upstroke & downstroke, adjustable ramps: fewer cycles, higher output



LOWER MECHANICAL WEAR

Adapts automatically to downhole behavior, extending the life of rods & equipment



DOWNSIZED MATERIAL FOOTPRINT

Standardized 10-ft container, minimal foundation, a smaller prime mover, etc.



BUILT-IN SAFETY & ENHANCED LOGISTICS

Designed for operator safety, two-person assembly, delivered on a single truck

HYDRAULIC POWER SYSTEM



ACTIVE ENERGY RECOVERY

100%

Downstroke energy is captured and reinjected on the upstroke



SELF-ADJUSTING COUNTERWEIGHT

Dynamic counterweight with linearized gas-accumulator behavior



STANDARDIZED COMPONENTS

Interchangeable parts available worldwide



REDUCED HYDRAULIC OIL VOLUME

-50%

Cut in half with active lubrication & an oil conditioning system



COUPLING LEVERS SYSTEM

Sealed, safer for operators, cleaner for hydraulic oil and environment



REAL-TIME PUMP CONTROL

Every pumping parameter monitored live nothing left unknown

24/7



AUTOMATIC ADJUSTMENT

Stroke length, speed and ratio are self-adjusted with zero manual tuning



PREDICTIVE MAINTENANCE

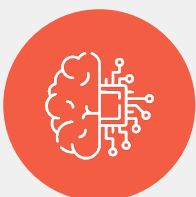
IO-Link sensors flag wear before it becomes failure



CLOUD DATA EXPORT

Secure, remote-accessible performance data

100%



INTEGRATED MACHINE LEARNING ENGINE

Built into the control architecture, continuously optimizing every stroke

HORIZON

engineering 

PRODUCTION OPTIMIZATION



OPEX & DOWNTIME REDUCTION

Cost-efficient operations, lifecycle-wide



IMPROVED PUMP FILLAGE

Maximizing fluid production per cycle



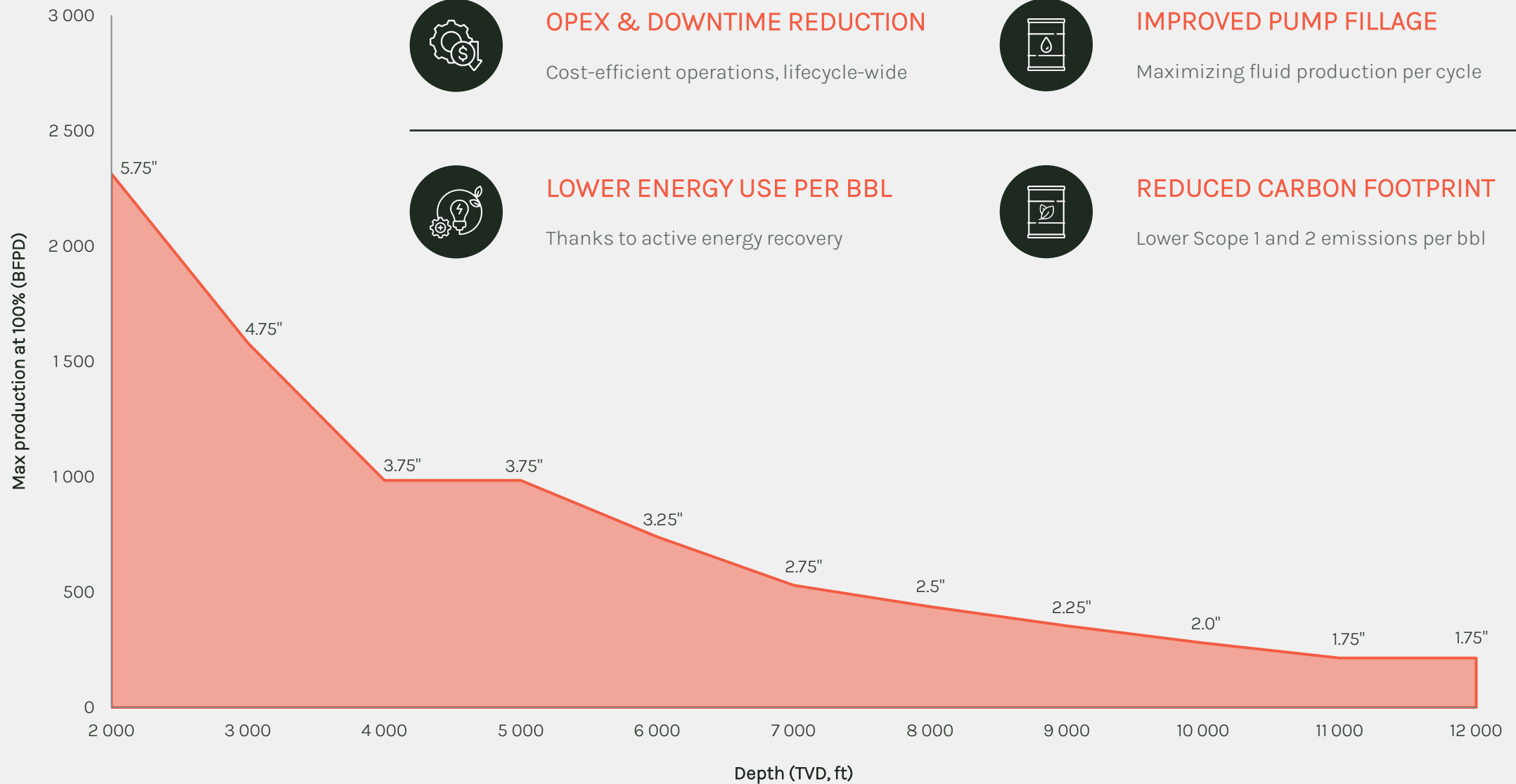
LOWER ENERGY USE PER BBL

Thanks to active energy recovery



REDUCED CARBON FOOTPRINT

Lower Scope 1 and 2 emissions per bbl





Let's Power the Future Together!



horizonengineering.ch

proudly made in Switzerland

