# PsiKick ESP
## Continuous Steam Trap Monitoring

**PsiKick builds completely self-powered sensing solutions that do not require batteries or maintenance, can be deployed nearly anywhere, and unlock new and actionable insights that unlock significant value in industrial operating environments. PsiKick's first product is a batteryless sensing solution designed to continually monitor the state of steam traps to determine failure states in real-time, enabling quick intervention to avoid costs of wasted energy and downtime.**
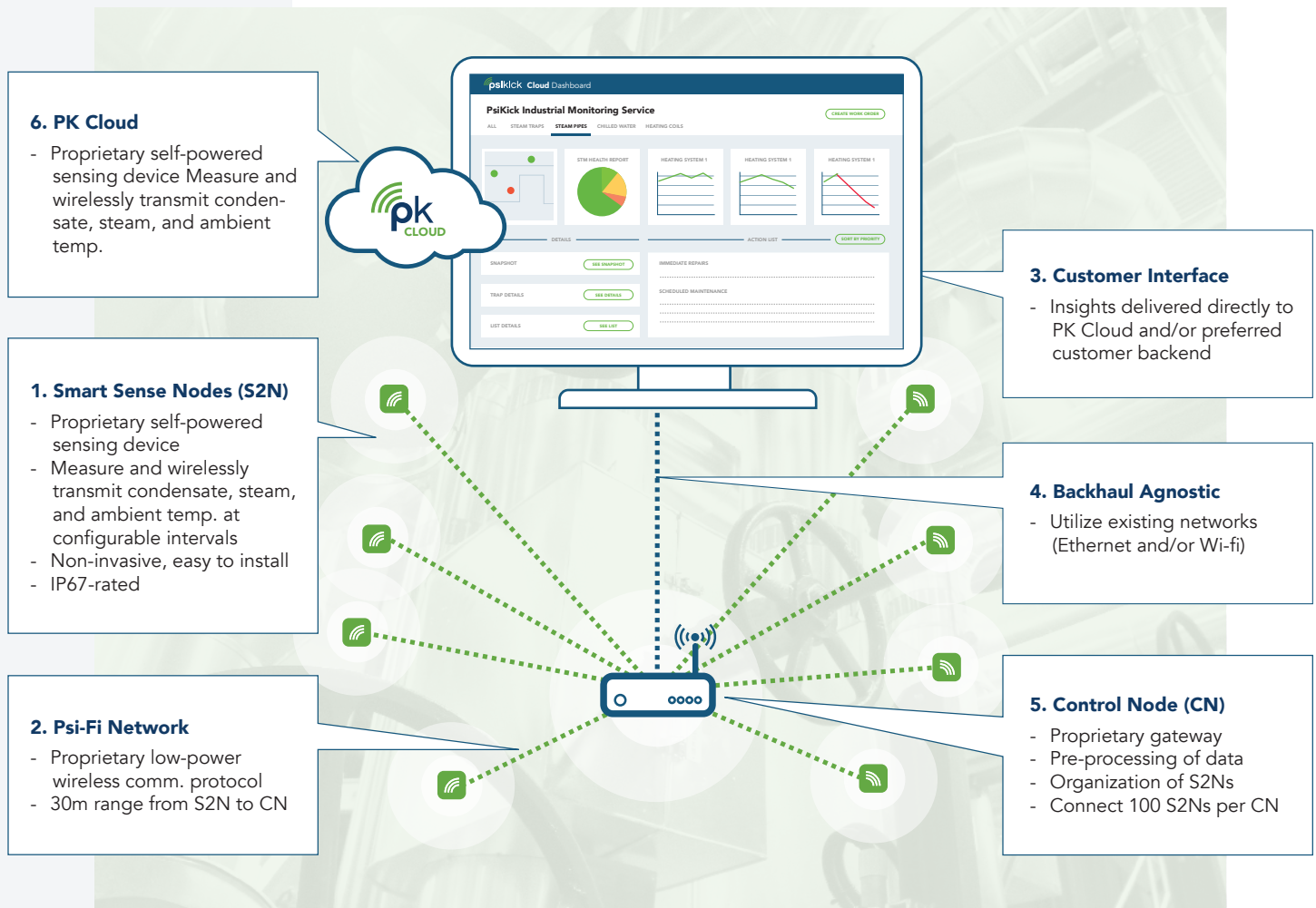
### PsiKick Advantage

PsiKick's self-powering, batteryless technology maintains unique advantages and a compelling value proposition for customers seeking to more effectively monitor steam traps:

» **Low total cost of ownership** – eliminating the need for wiring and battery replacements allows for simple, non-intrusive installation and a maintenance-free monitoring solution;

» **Large-scale deployment** – eliminating battery replacements enables fleet-wide steam trap coverage;

» **Access to new data streams** – batteryless, self-powered sensors go where other sensors can't and generate real-time, actionable insight due to truly continuous monitoring.



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**6. PK Cloud**
- Proprietary self-powered sensing device Measure and wirelessly transmit condensate, steam, and ambient temp.

**1. Smart Sense Nodes (S2N)**
- Proprietary self-powered sensing device
- Measure and wirelessly transmit condensate, steam, and ambient temp. at configurable intervals
- Non-invasive, easy to install
- IP67-rated

**2. Psi-Fi Network**
- Proprietary low-power wireless comm. protocol
- 30m range from S2N to CN

**3. Customer Interface**
- Insights delivered directly to PK Cloud and/or preferred customer backend

**4. Backhaul Agnostic**
- Utilize existing networks (Ethernet and/or Wi-fi)

**5. Control Node (CN)**
- Proprietary gateway
- Pre-processing of data
- Organization of S2Ns
- Connect 100 S2Ns per CN

PsiKick's technology utilizes revolutionary ultra-low-power technologies from the Universities of Virginia of Michigan. It's ever-growing team of engineers and designers is backed top-tier investors, including storied venture capital firm New Enterprise Associates. Over the coming months, PsiKick will release similar industrial monitoring products that provide additional insight into other infrastructure, including motors and heavy machinery. We welcome the opportunity to engage with your organization to deploy solutions that deliver real value.

# psikick

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Annual Savings potential
**$1338**

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