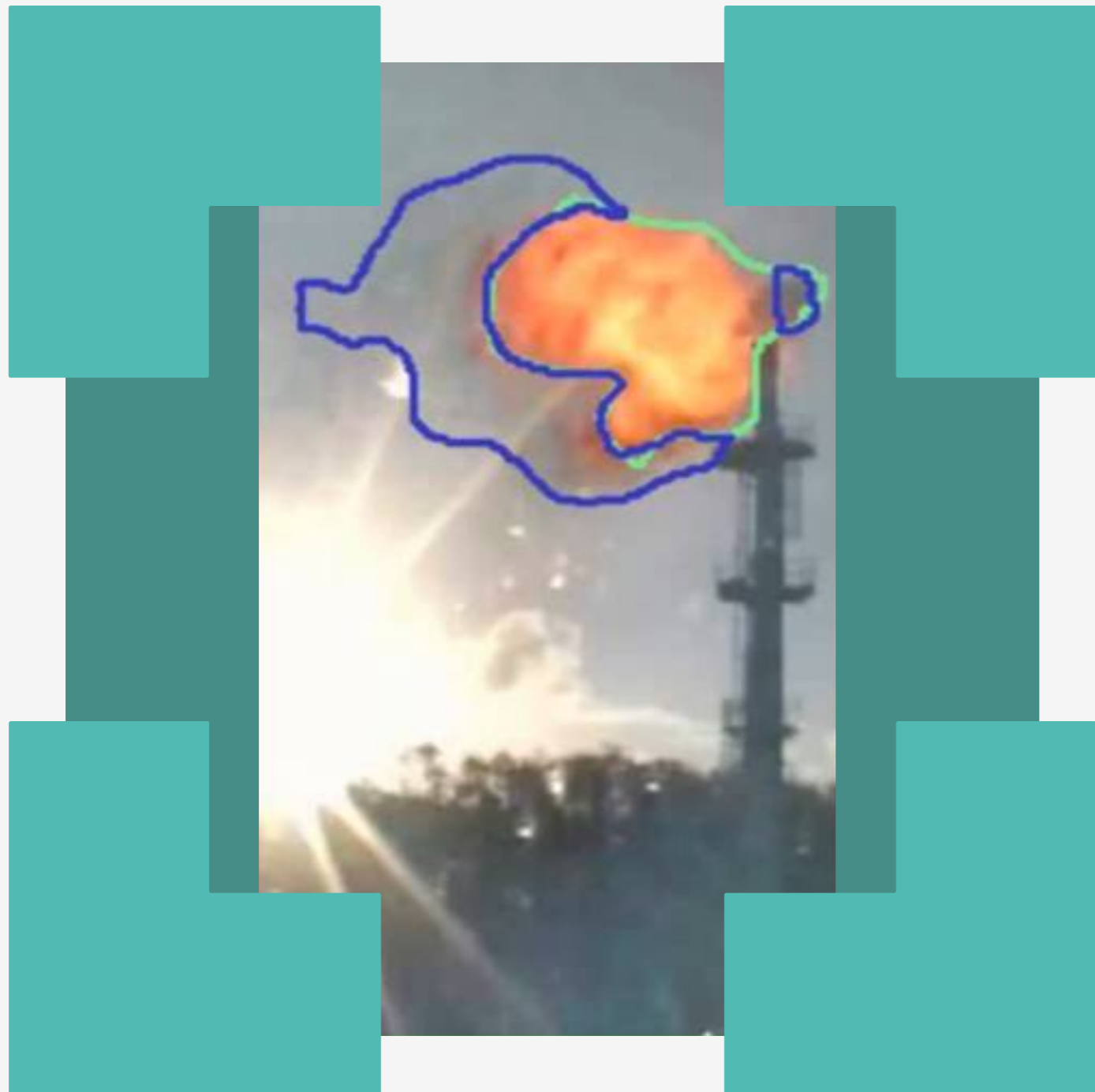noema

Flare Monitoring

Flares are monitored by regulatory agencies and fines are assessed for various conditions including burning dirty, not burning, etc. Manually monitoring gas flares results in excessive fines because the fines are assessed based on inspection intervals, rather than precise time measurements and visual data.

Noema uses smart cameras and computer vision to automatically monitor flare sites 24/7, while quantifying the pixel area of the flare and smoke in a frame. The app gives operators a greater wealth of accurate, real-time data for monitoring flares and preventing negative environmental conditions.

Noema's app automatically monitors gas flares for outages, while also quantifying the fire and smoke pixel-area. Operators get useful, real-time data and alarms to help reduce environmental impacts and regulatory costs.
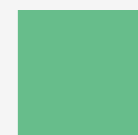
Features / Specs

Alarm & timestamp for flare outs

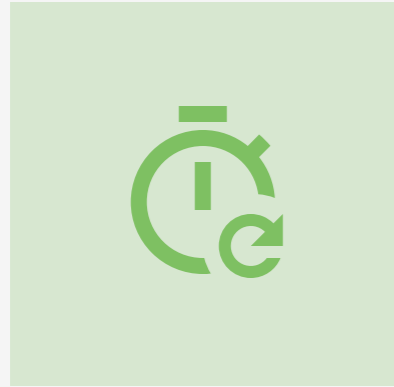**EPA standards compliance**

Variety of cameras supported

Works in all light & weather conditions
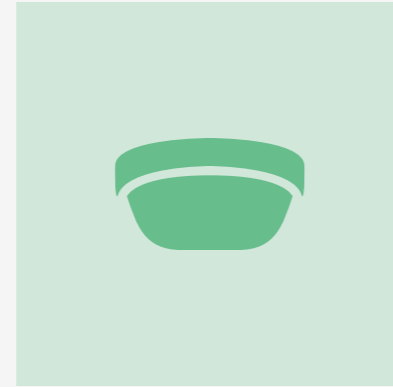
Easy configuration & use

Works with little internet bandwidth

contact@noema.tech
www.noema.tech

Automated, 24/7 monitoring

Noema's Flare Monitoring application runs 24/7 and detects outages with more consistency than a human operator. Having a human operator monitor feeds is costly and prone to error, as continuous monitoring is nearly impossible. Real-time alerts minimize response times and regulatory costs for operators.

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Computing at the Edge

Noema's Flare Monitoring application operates at the edge, meaning the algorithm runs entirely on the camera, allowing you to monitor multiple flares, on a single camera, with no additional hardware or network connectivity.

Remote Installation & Configuration

Noema's computer vision applications are easy to install. Mount a new camera or equip an existing one, and configure the application remotely over the internet. In addition to the camera, no hardware or measurements are required.

Data and Integrations

APP integration using Local API:
- Timestamp
- Original & augmented (fire, smoke, px counts)
- Measurement data

On-demand integration with custom message broker & Data Trolley information system performed by Noema