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<td><strong>Docket Number:</strong></td>
<td>20-RENEW-01</td>
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<td><strong>Project Title:</strong></td>
<td>School Energy Efficiency Stimulus Program</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Sensgreen Indoor Air Quality Solutions</td>
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<td><strong>Filer:</strong></td>
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<td>Hasan Basri Tosun</td>
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Sensgreen Indoor Air Quality Solutions

Sensgreen is an IoT & AI-driven technology company, and we are developing solutions to measure a variety of parameters to make sure indoor air quality is optimal in buildings.

Additional submitted attachment is included below.
We help convert big data into action points to help you operate efficiently, cost-effectively & provide better experience to building occupants, through better control.
**Air** is an essential element of the life & an integral aspect of **HVAC**

- **90%** of our lives are spent indoors. Safe air?
- **DYNAMIC ENVIRONMENT** of our lives are spent
- **90%** of humans don't breathe safe air.

**Buildings**
- Average age of buildings > **30 years**
- Semi-reactive to single parameter

**Productivity**
- 20% lost productivity = over **$50 billion**
- Customers spend less or no time

**Ignorance**
- **DYNAMIC ENVIRONMENT**
- No Data - No Analytics - Wrong or Lucky Decisions

**Single Largest OPEX Component & Multiplier in every building**
- HVAC: Energy, Operations, Maintenance
- Human: Productivity, Health, Customer
- Company: Brand Value

**Health**
- 50% of sicknesses are due to poor indoor air
- GOOD INDOOR AIR = vaccinating 50% of population against COVID
Measure it!
- Wireless,
- Battery powered,
- Maintenance free,
- Zero installation,
- Self calibrated,
- Certified.

See it!
- Mobile,
- Web systems,
- Alarms,
- Qr interfaces,
- Display screens,

Push the CLOUD!
- WiFi for small users
- Bluetooth for vehicle fleets
- LoRaWan for large premises
- NB-IOT for the cities

Analyze it!
- Analyze the big data to observe patterns and abnormalities.
- Predict the future.

Automate it!
- Real time input
- Online view
- Dynamic Learning & Optimization
- Flexible output & Constant action

SELF-RUNNING, SMARTER, GREENER BUILDINGS
Why do you need DATA?

1. **Operational Savings**
   - Energy savings (15%)
   - Boost facility management efficiency
   - Reduce absenteeism (60%)

2. **Health & Wellbeing**
   - Boost your energy & concentration
   - Reduce infection risk (Covid-19, flu etc.)
   - Increase your productivity (50%)

3. **Revenue Generation**
   - Reinstall customer confidence post Covid-19
   - Boost customer experience, time spent
   - Obtain AirQ+, Leed, Well, Restart certifications, Market CSR prestige
   - Attract new customers by marketing Air Quality as a differentiator

- AIRPORTS
- DATA CENTERS
- INDUSTRY
- AGRICULTURE
- HUSBANDRY
- SCHOOLS
- BANKS
- OFFICES
- HOSPITALS
- MUNICIPALITIES
- MALLS
- GYMS
- TAXIS
- BUSES
- HOTELS
SensNODE

- Wide measured parameters (100% cable free)
- Connectivity Module (LoraWan, NB-IOT, Wi-Fi, Bluetooth)
- Status LEDs (Power, Communicate, Battery)
- Battery Power (2-4 years)
- Individual QR Box (Occupant Feedback & Review)

SensANALYTICS

- Occupant Feedback (Analyzing, Creating insights, human centric)
- Anomaly Detection Tool (Detection of unexpected and non defined events)
- Facility Management Recommendation Tool (Weekly & Monthly reports, Recommendations)
- Pollutant Source Recognition Tool (Analyzing different parameters (smoking, carpets, cooking etc.)

SensLINK

- Create a 360-degree communication loop between you, buildings & occupants.
- Receive real-time feedback from your building occupants on air around them to help you provide them better experience.
Why Sensgreen?

**Hardware**
- 100% Cable Free
- 4 years battery
- 7-in-1 sensors

**Connectivity**
- Multi Platforms (Lora, NBIOT, Bluetooth, Wi-Fi)

**Modular**
- Flexible to customize
- Custom hard/soft options

**Integration**
- B2B Features
- Analytics
- Virus Index

**Software**
- BMS, CAFM, BAS
- API
- IR/IFTTT

**Pricing**
- Subscription Model
- Lifetime Warranty/Updates
- No fear of CAPEX obsoletion

References

- HSBC
- Carrefour
- sodexo
- JLL
- Unilever
AIR

What people see

What people don’t see

Energy
Operations & Maintenance
Health
Performance
Brand Value

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