



Case Study: Keystone Environmental

Organization Background

iGuard360° Security, based in British Columbia, delivers customized security solutions across a wide range of environments, including high rise residential, retail, commercial offices, construction sites, remote locations, and large industrial facilities.

The company integrates onsite guarding, mobile response, and advanced monitoring centre capabilities with modern technology solutions to protect people and property while maintaining cost efficiency for its clients.

The Challenge

An environmental services company required a cost-effective security solution for a dock platform located along the Fraser River, an area with constant tidal movement and high operational activity.

The site presented several challenges:

- No access to shore power
- Continuous rail traffic operating along the platform
- Heavy marine activity including commercial vessels, barges, and recreational traffic
- A need to prevent unauthorized shoreline access
- A requirement to monitor and identify potential environmental violations such as illegal dumping
- Protection of a sensitive ecosystem and critical infrastructure

The urgency was reinforced by a prior incident where significant damage, exceeding \$250,000, occurred to dolphin structures protecting testing wells. The cause was never identified due to a lack of surveillance or reporting.

Solution Selection

Traditional wired security systems were not viable due to infrastructure limitations. The nearest power source was over 300 meters away at a nearby rail facility, which declined any installation of equipment or network infrastructure on their property due to operational and safety concerns.

A fully remote, solar powered solution was required. The selected system included:



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- Three autonomous detection units
- Two communication bridges
- Solar panel integration for continuous operation

This configuration provided a self-sustaining system that required minimal maintenance while delivering full site visibility.

Implementation and Outcome

The deployed solution provided immediate operational value:

- Remote access to site activity and system status
- Daily review of recorded events without the need for site attendance
- Improved incident documentation through captured imagery
- Enhanced reporting capabilities using visual evidence
- Reduced operational costs through fewer site visits

The client gained a level of visibility and control that was not previously achievable, particularly in such a challenging environment.

Client Feedback

Claire Wilkin noted:

“The information, training, and service provided by Don Azcona and the iGuard Security team were highly valuable and appreciated. We have already identified opportunities to implement this solution across additional facilities and future projects.”

Broader Application

This solution has clear applicability across multiple sectors facing similar constraints, including:

- Harbour authorities
 - Marinas
 - Aquaculture operations
 - Remote industrial and environmental monitoring sites
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Alternatives Considered

Given the site conditions and operational requirements, conventional systems were ruled out early in the process. A remote, integrated, and self powered solution was the only practical and cost-effective approach.

Among available options, the selected platform was the only solution capable of meeting the technical requirements, environmental constraints, and budget expectations.



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