

# Hughes Integrates the HiSKY Smartellite™ Network to Connect Remote Solar Energy Sites in Brazil

Reliable satellite connectivity for 400 autonomous solar energy sites in the Amazon —  
**real-time monitoring and control of renewable installations.**

Hughes Network Systems integrates the HiSKY Smartellite™ network to provide reliable satellite connectivity to 400 autonomous solar energy sites in Brazil's Amazon region. The collaboration facilitates real-time monitoring and control of renewable energy installations, bringing sustainable power to remote communities.



## THE CHALLENGE

### Renewable energy where no network reaches

- ▶ The Amazon's vast, remote and often inaccessible terrain makes deploying renewable energy solutions a significant challenge.
- ▶ Reliable communication networks are critical for monitoring and managing solar installations — but there is no existing infrastructure.
- ▶ Traditional communication methods are unreliable or non-existent, making efficient operation and maintenance of the energy sites difficult.

## The HiSKY solution

HiSKY's satellite IoT network — the HBS modem, Smartellite™ Dynamic 8x8 Ku terminals and Space Control (NMS) — was integrated as an end-to-end solution within the Hughes satellite network. The Smartellite™ terminal's unique form factor — lightweight design, low power consumption, robust performance and ease of deployment — was key to the solution. The terminals provide machine-to-machine (M2M) connectivity over Ku band, enabling real-time monitoring and control of the solar energy sites.

**Terminal** — Smartellite™ Dynamic 8x8 Ku

**Service tier** — M2M / IoT over Ku band, GEO

**Deployment** — 400 autonomous solar sites, Amazon region

## RESULTS

### Pivotal to the deployment

#### ► Seamless data transmission

The HiSKY network integrated into the Hughes network — a full end-to-end solution — ensures seamless data transmission between the remote installations and central management systems.

#### ► Improved efficiency, reduced downtime

Reliable monitoring and management of the installations improves operational efficiency and reduces downtime.

#### ► Proactive maintenance

Continuous connectivity enables proactive maintenance and efficient operation.

#### ► A precedent for similar projects

Sustainable energy for remote communities — and a model for leveraging advanced satellite technology in similar projects worldwide.

## DEPLOYMENT SNAPSHOT

### What was integrated

#### PARTNER NETWORK

Hughes satellite network — end-to-end integration

#### SITES

400 autonomous solar energy sites, Amazon region, Brazil

#### TERMINALS

Smartellite™ Dynamic 8×8 Ku — M2M over Ku band

#### HUB

HiSKY HBS modem

#### MANAGEMENT

Space Control (NMS)

#### APPLICATION

Real-time monitoring and control of renewable energy installations

## HISKY PRODUCTS IN THIS USE CASE

### One unified system

#### TERMINAL

Smartellite™ Dynamic 8×8 Ku



#### HUB SYSTEM

HiSKY HBS modem + packet processor



#### NMS

Space Control Standard / Premium



Full network sovereignty and mission-grade redundancy.