

## Solar Energy South Africa

# Cisco smart grid solutions Nepal



## Overview

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Is smart grid a solution to energy issues in Nepal?

Evaluating the current energy scenario in Nepal, this article presents the smart grid as a solution to existing and future energy issues and the associated challenges during its implementation, urging concerned authorities to launch initiatives to promote it.

What are the rules & regulations for smart grids in Nepal?

In addition, there are no well-defined rules or guidelines in Nepal to govern smart grid efforts. The majority of present legal and regulatory frameworks were created to address existing networks and utilities. As a result, current legislative and regulatory frameworks will need to be amended to facilitate the deployment of smart grids.

What is a smart grid solution?

Smart grid solutions to accelerate utility modernization, security, and reliability. Between grid reliability today and powering a better tomorrow, there's a bridge. Cisco provides solutions that improve system efficiency, resiliency, and security for the changing environmental, consumer, and regulatory conditions that utilities are facing.

How does Cisco secure the grid?

Cisco secures the grid with segmentation, authentication, visibility, and threat detection/mitigation. (PDF) See how Cisco maps grid security solutions, techniques, and services to NERC CIP requirements. See how Cisco brings IT and operational technology (OT) together for real-time decision making. (PDF).

Why is India implementing smart grid technology?

Facing similar problems, India has also been implementing smart grid technologies for energy security, limiting global warming, strengthening the

renewable energy sector, and escaping the energy crisis (Singh and Tiwari 2017 ).

Is smart grid technology a good idea for Bangladesh?

The Government of Bangladesh and its distribution companies have been inclined toward smart grid technology to incorporate available renewable sources in the primary grid and thus helps reduce dependence on carbon-intensive fossil fuel plants (Islam and Bloemink 2018 ).

## Cisco smart grid solutions Nepal

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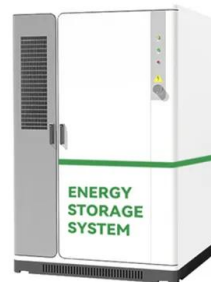


### [Grid Security Design Guide](#)

The Cisco Distribution Automation - Feeder Automation Design Guide provides a comprehensive explanation of the entire end-to-end Cisco Smart Grid Field Area Network (FAN) solution design, which was developed for the Utility Industry in the Americas region and leverages the license free spectrum: ISM band 902 - 928 MHz for last mile connectivity

### [Cisco Industrial IoT Solutions Brochure](#)

Multiservice data communications networks are essential to realizing the full potential of the smart grid. With Cisco ® industrial IoT solutions, utilities can get the data they need to improve the operational efficiency, safety, and security of the distribution power system. Field area networks are powered by the Cisco industrial routing and



### **Cisco and Itron Join Forces to Deliver Next-Generation Smart Grid ...**

As a result, utilities will benefit from an energy grid that is more secure, scalable and reliable, as well as solutions that are easier to maintain and able to support future needs," said Laura Ipsen, Cisco senior vice president and general manager for ...

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### [Cisco Authorised Distributor in Nepal](#)

Insight Technology Pvt. Ltd. is authorized distributor dealer reseller in Nepal for all Cisco products & provides quality products. About Cisco. Cisco specialise in providing networking foundations and solutions that ...

### **Cisco Outlines Strategy for Highly Secure, 'Smart Grid' Infrastructure**

Cisco will provide solutions for efficient, IP-based backhaul communications for smart meters that will integrate proprietary solutions into the overall smart grid platform. Cisco's Home Energy Management and Business Energy Management solutions will help optimize energy demand, use and cost by providing greater access to data and analysis tools.



### [IoT Digital Utilities](#)

Cisco Smart Grid Services network solutions help enable security, reliability, resilience, and operational efficiency. Watch video (5:17) Read white paper; Request a 1-on-1 Demo; Read Blogs; See Customer Stories; Contact Us; Contact Cisco. Get ...



## Smart Grid

o Sense and prevent power blackouts by isolating disturbances in the grid Figure 1. Main Applications of a Smart Grid Source: Cisco IBSG, 2008 Grid Monitoring/ Management Smart Metering Smart Grid Applications Smart Grid Platform Demand-side Management Renewables' Integration Distributed, Intelligent Grid Management

### GRADE A BATTERY

LiFePO4 battery will not burn when overcharged/over discharged, overcurrent or short circuit and can withstand high temperatures without decomposition.



## Eletrobras Uses Cisco Technology for Smart Grid Project in Brazil

São Paulo, Brazil, May 4, 2015 - Cisco will provide communications infrastructure to "Energy+", the smart metering program of Eletrobras, a major Brazilian electric utility that will serve the states of Amazonas, Alagoas, Acre, Piaui, Rondonia and Roraima. With World Bank's funding of R\$ 1,2 billion, Energia+ project will enable operational efficiency by improving service quality and

## Cisco Smart Grid: Solutions for the Next-Generation Energy Network

Cisco Smart Grid is a holistic, cross-technology

solution that enables utilities and other organizations in the energy industry to build secure, standards-based IP networks to efficiently meet the demands of energy generation, distribution, storage, and consumption. Cisco Smart Grid is a combination of products, technologies, services, and ecosystem partners that ...

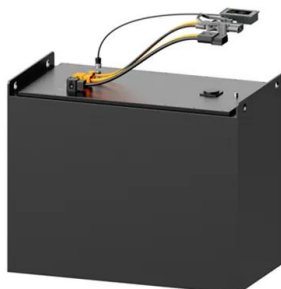


## Cisco Services for Securing the Smart Grid

Cisco Connected Grid Services deliver clear and immediate benefits to the utility, cost-effectively controlling access to critical utility assets, monitoring the network, mitigating threats, and protecting physical facilities.

## [Cisco Energy Industry Solutions](#)

Cisco's Digital Solutions for the energy industry make utility operations safer, more efficient, and more secure. With our solutions, utility grids can help enable reliable, efficient service. Utilities and Smart Grid Smarter, safer, highly secure power grids offer reliable, efficient service.



## Cisco Builds Upon Smart Grid Portfolio to Help Modernize the Electric Grid

SAN JOSE, Calif. - January 17, 2012 - Cisco today announced additional solutions and services to its Connected Grid portfolio that will help utilities modernize the electric grid with built-in flexibility, security and interoperability enabled by the power of the network. Cisco's new technology architecture, solutions and related services address key utility concerns around ...

## Transforming grids for a new age of energy

De Wysocki highlighted Cisco's role in supporting organizations through this transition -- and doing it before climate change becomes irreversible. "The only way that we're going to mitigate the worst impact is to accelerate the transition to clean energy," she stressed. "To do that, we need a smart, secure, connected modern grid.



## National Grid Selects Itron and Cisco's Smart Grid Solution for ...

LIBERTY LAKE, Wash.--Jan. 15, 2013--Itron, Inc. (NASDAQ: ITRI) announced today that National Grid, a supplier of electricity to approximately 3.4 million customers in the Northeast, has selected Itron's smart grid solution which uses Cisco's multi application communications network for the utility's 10,000 meter Smart Grid Pilot Program in Worcester, Mass.

## Cisco's 'Smart Grid' Approach

From the 'it's time to get smart about power' files: The Smart Grid, the idea of transforming the century old electrical grid in the United States into a more efficient and optimized platform for electricity management and delivery is big business 's a business in which networking giant Cisco (NASDAQ:CSCO) is very interested in playing a key role.



## Cisco Connected Utilities IoT Blueprints



Cisco Utilities IoT Validated Design provides a grid security architecture for substation, distribution automation, AMI solutions that help you protect your grid from cyber threats. Scalability Millions of meters, hundreds of thousands of ...

## Cisco Digital Utilities (Field Area Networks)

The Cisco multi-service FAN solution is based on a flexible two-tier architecture that generates IP network services such as security, quality of service, resilience, and management supporting use cases such as Advanced Meter Infrastructure (AMI), Distribution Automation, and work force automation. The Cisco FAN solution consists of three main



## Let's schedule a one-on-one utility demo , Cisco

Cisco smart grid network solutions help enable security, reliability, resilience, and operational efficiency. Adapted to your specific use case: substation automation, distribution automation, advanced metering infrastructure (AMI), renewable energy, security,

## LADWP Selects Itron and Cisco Technology for Smart Grid Project

LADWP will install up to 52,000 Itron smart electric meters and 20 smart water modules that will operate over an integrated cellular and multi-

application IPv6 communication network based on the Cisco GridBlocks(TM) architecture using Cisco Connected Grid routers and Network Management System.



 **LFP 48V 100Ah**



## [Cisco Services for Grid Security](#)

comprehensive support for Cisco IPS solutions. Cisco and Smart Grid Ecosystem Partner Expertise . Engineers from Cisco and Cisco smart grid ecosystem partners are among the energy industry's elite in providing integrated, collaborative, adaptive grid security solutions. Cisco and partners work together closely to deliver services

## [Cisco for Utilities](#)

See how Cisco maps grid security solutions, techniques, and services to NERC CIP requirements. IT/OT relationships in industrial environments See how Cisco brings IT and operational technology (OT) together for real-time decision making.



## **Innovating an energy future that's smart, secure, and ...**

ScottishPower Renewables relies on Cisco solutions like CyberVision, Cisco Validated Designs for Power Utilities and Renewable Energy, and Cisco Ultra-Reliable Wireless Backhaul, I feel Cisco can be a critical ...



## Cisco Connected Grid Security for Field Area Networks

In this white paper, we will focus on security for the field area network with smart meters and distribution automation devices connecting back to utility control centers through Cisco's Connected Grid solutions. Specifically, we will show how Cisco technology helps enable better security and reliability in the distribution grid of



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