# Welcome to
# **VP.Start Technology**

At VP.Start, we focus on Smart Grids and Smart City IoT solutions, utilizing retrofit plug-and-play technology with our unique DRC solutions to digitize power distribution systems.

**Established in 2014**

**Cambodian Identity**

**Unique in Market**

# Our Offices



**VP.Start HQ**
Address: #15, Street 604, Sangkat Boeung Kok 2, Khan Toul Kork, Phnom Penh, Cambodia.

**VP.Start Sen Sok Valley Campus**
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# Research & Development

VP.Start developed both hardware and software from scratch.



Application Design

Modeling

Quality Control

Design

MCU Programming

Production

Installation

# Our Cutting-Edge Solutions

We are a leading provider of innovative, sustainable, and reliable Smart Grid Solutions, Home Automation Solutions, Smart Cities, AlienCheck, and Cloud Services in Cambodia.
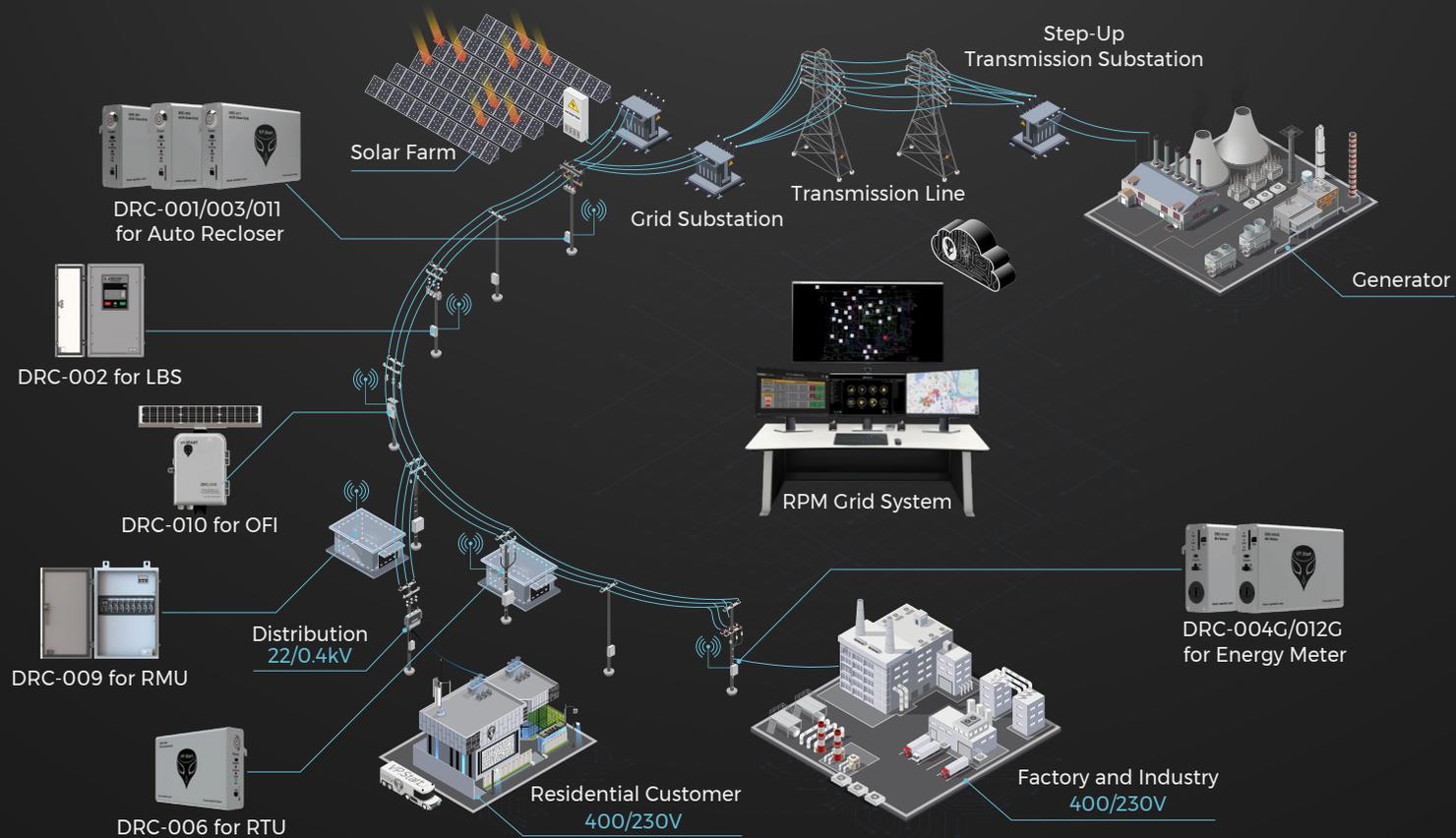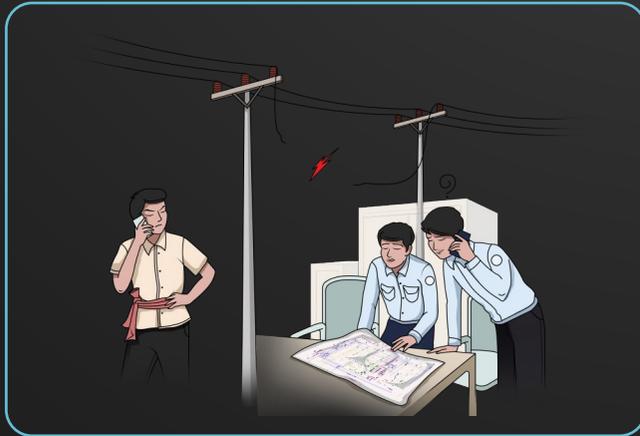
Smart Grid

Smart City

Home Automation

AlienCheck

Cloud Service

# Smart Grid Solution



Solar Farm

DRC-001/003/011
for Auto Recloser

DRC-002 for LBS

DRC-010 for OFI

DRC-009 for RMU

DRC-006 for RTU

Distribution
22/0.4kV

Residential Customer
400/230V

Grid Substation

Transmission Line

Step-Up
Transmission Substation

Generator

RPM Grid System

Factory and Industry
400/230V

DRC-004G/012G
for Energy Meter

# Impact of Conventional Grid
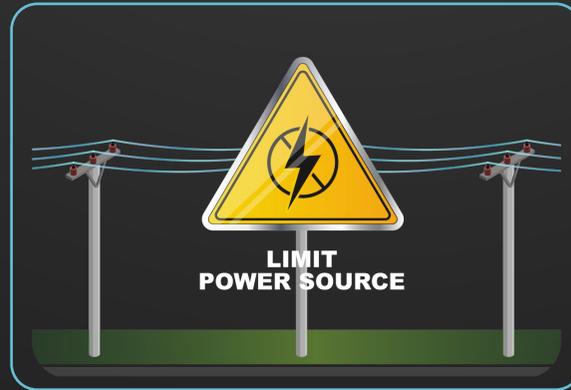


Power Consumers
(Power Outages)



Economic Growth
(Missed Investors)

# Root-Cause of Technical Problems



Human
(Lack of Technical & Human Action)



Limit Power Source



Nature

# Challenges of Transforming from Conventional Grid to Smart Grid

# Challenges of Transforming from Conventional Grid to Smart Grid

💡 The existing infrastructure equipment comprises multiple companies and brands.

## MV/LV Meter

Landis +Gyr

EDMI

## Ring Main Unit (Substation)

CB / SW (LBS) / Fuse (Tr)

Schneider (RM6)

Schneider (SM6)

ABB

SIEMENS (8DJH)

SIEMENS (8DJ20)

Schneider (RTU T200i)

RTU

SNOVA (SNV-308)

Fault Indicator

SIEMENS (3AD8423)

Fusesaver

Schneider

Sectionalizer

LVDB

LV Feeder Monitoring

# Existing Electrical Distribution Equipment Overview

## Auto Recloser

Schneider

PTCC

ADVC2

ADVC3

Cooper

Cooper

Eaton V2

Eaton V3

ENTEC

Other

## Load Break Switch (LBS)

Schneider Flusarc PLA

SEL (PLS)

EN-KPS

Schneider (RL-Series)

S&S SF6

ZW32

PRECISE

ABB (SECTOS)

# Our Innovative Solutions

- A plug and play technology.

# Implementation of VP.Start Solutions

## MV/LV Meter

DRC-004G

DRC-012G

Landis+Gyr

EDMI

## Ring Main Unit (Substation)

DRC-009

CB / SW (LBS) / Fuse (Tr)

Schneider (RM6)

Schneider (SM6)

ABB

SIEMENS (8DJH)

SIEMENS (8DJ20)

**DRC-006** Schneider (RTU T200i)

RTU

**DRC-010** SNOVA (SNV-308)

Fault Indicator

**DRC-007** SIEMENS (3AD8423)

Fusesaver

**DRC-018** Schneider

Sectionalizer

**DRC-015G** LVDB

LV Feeder Monitoring

## VP.Start Meter

## DRS

TOU & Solar

## LMS Software

Low Voltage Distribution Management System

RPM Grid Software

ROSE Software

PLUM App

## Auto Recloser

**DRC-001** Schneider

PTCC

ADVC2

ADVC3

**DRC-003** Cooper

Cooper

Eaton V2

Eaton V3

**DRC-011** ENTEC

**DRC-008** Other

## Load Break Switch (LBS)

DRC-002

Schneider Flusarc PLA

SEL (PLS)

EN-KPS

Schneider (RL-Series)

S&S SF6

ZW32

PRECISE

ABB (SECTOS)

# Implementation of VP.Start Solutions

**DRC-001**

Smart Grid IoT Controller for Auto Recloser



ADVC Controller

**DRC-002**

Smart Grid IoT Controller for LBS



**DRC-003**

Smart Grid IoT Controller for Auto Recloser



Cooper Controller

**DRC-004G**

Remote Monitoring for Energy Meters



Meter Cabinet

**DRC-006**

Smart Grid IoT Controller for Remote Terminal Unit, RTU T200i



RTU T200i

**DRC-007**
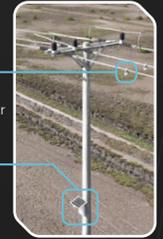
Smart Grid IoT Controller for Fusesaver



Fusesaver

RCU

**DRC-009**

Smart Grid IoT Controller for Ring Main Unit (RMU)
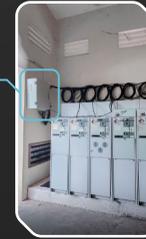


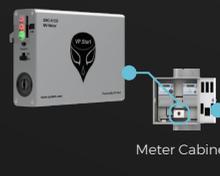**DRC-010**

Remote Monitoring for Overhead Line Fault Indicator



Fault Indicator

DRC-010

**DRC-011**

Smart Grid IoT Controller for Auto Recloser



ENTEC Controller

**DRC-012G**

Remote Monitoring for Energy Meters



Meter Cabinet

**DRC-015**

Remote Monitoring for Low Voltage Distribution Board, LVDB



DRC-015T

DRC-015G

DRC-015S
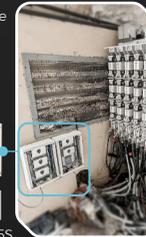
**DRC-018**

Smart Grid IoT Controller for Sectionalizer



ADVC Controller
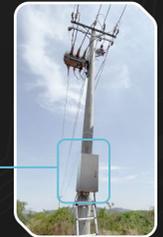
# Smart Grid Management Software



RPM Grid Software



ROSE Software
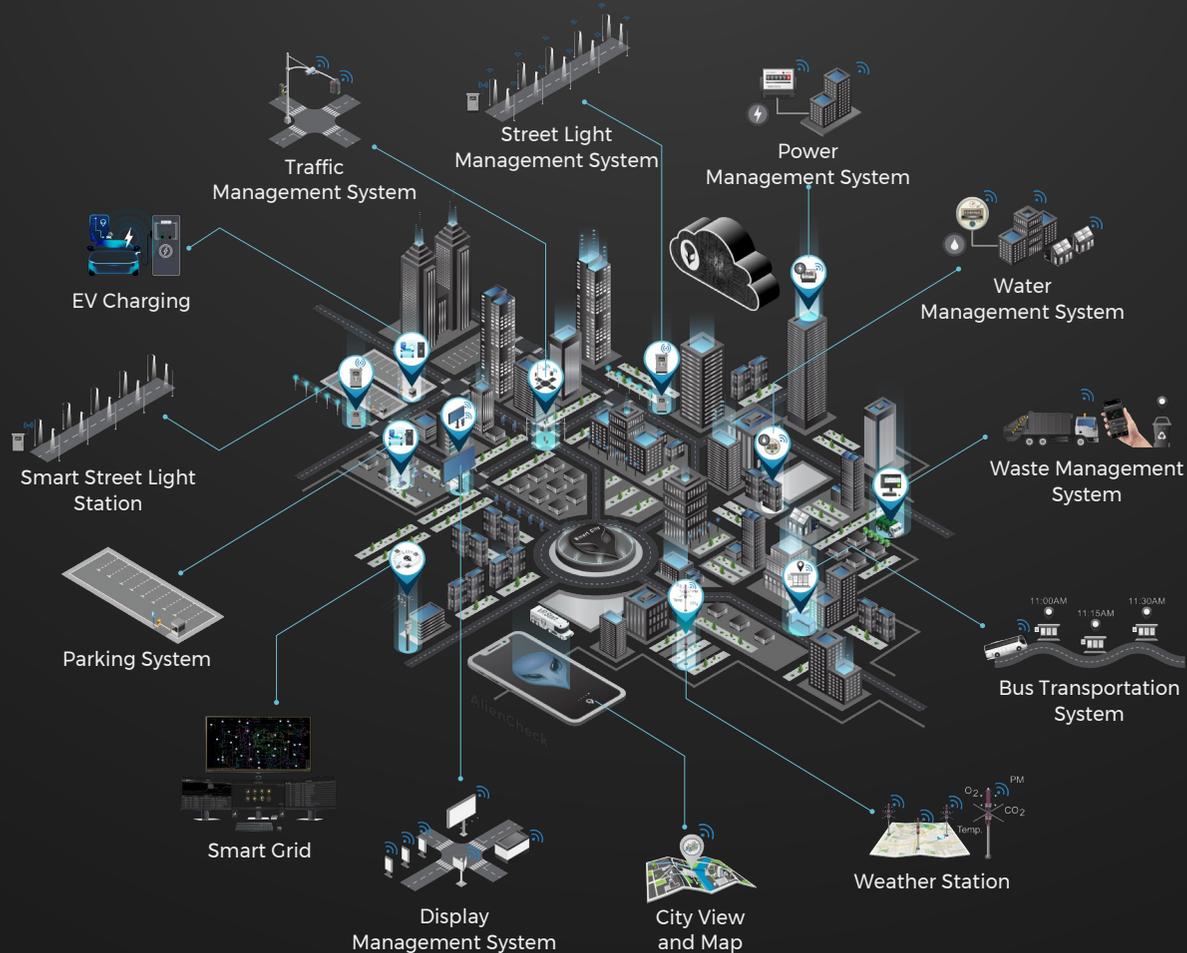


DRS Software



LMS Software

# Project References



**200** ⊕  power Utility Customers

**8000** ⊕  DRCs Installed

**17** ⊕  Smart Grid Systems Installed

# Smart City Solution



Traffic Management System

Street Light Management System

Power Management System

EV Charging

Water Management System

Smart Street Light Station

Waste Management System

Parking System

Bus Transportation System

Smart Grid

Display Management System

City View and Map

Weather Station

# Smart City Solution

## NiteLite Management System

Remote control and monitoring of smart street light stations.

Station Monitoring

NiteLite Management System

Comsumption Report

Smart Steet Lighting

Trash Management

Public Display System

SCD-001

# Smart City Project Reference

# Home Automation Solution

# Home Automation Solution

**VH-001**

Smart Switch



**VH-002**

Smart Switch



**VH-011-CW**
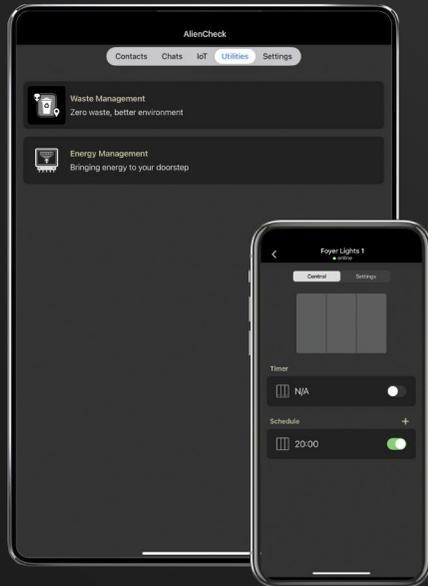
Smart Bulb



**VH-012-1C**

Smart Switch
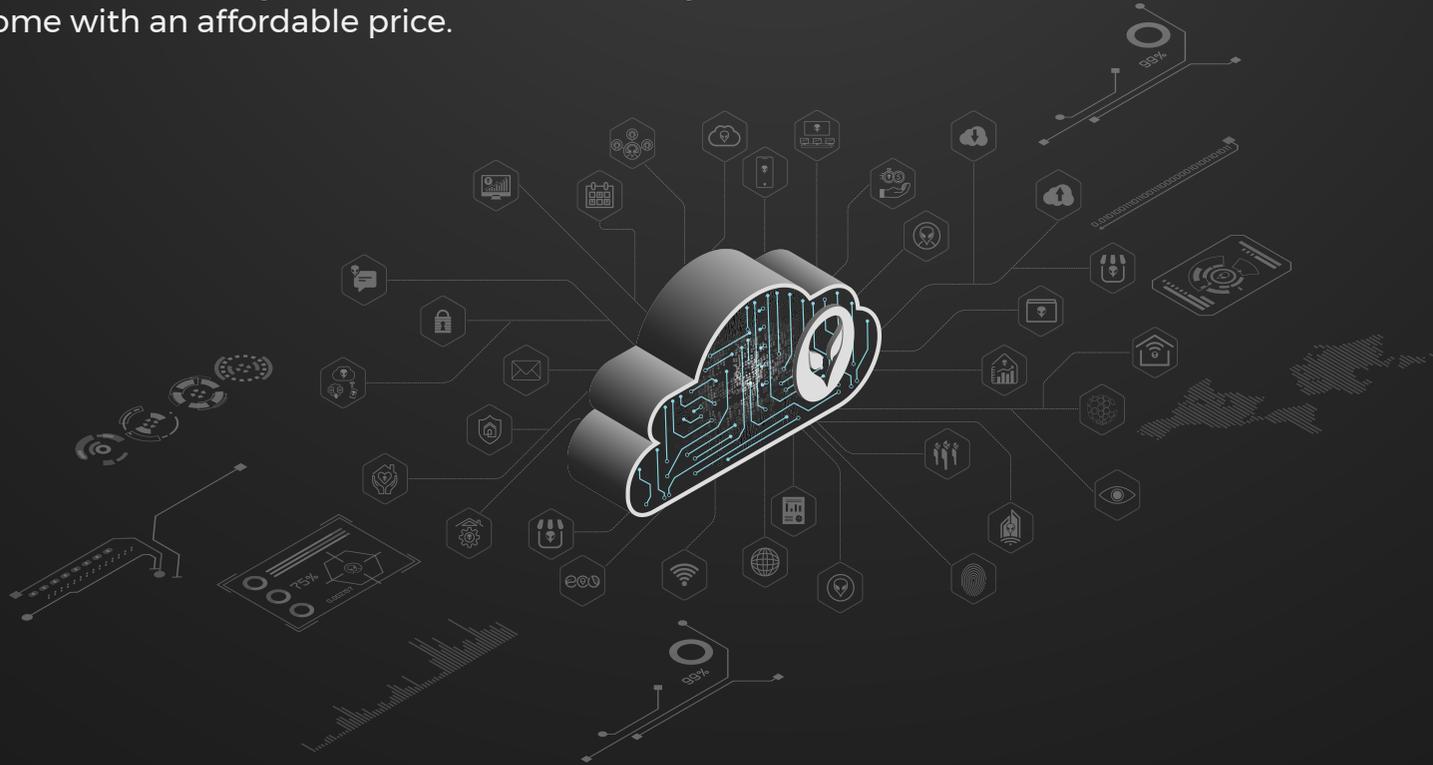
# AlienCheck



IoT      Utilities      Chats

# Cloud Services

VP.Start cloud services not only offer unmatched flexibility and convenience, but it's also come with an affordable price.

# Thank You!