

# CORPORATE PROFILE

## **RENEON TECHNOLOGIES SDN. BHD.**

*(1018201-A)*

310, 3<sup>rd</sup> Floor, Block B, Kelana Square,  
17, Jalan SS7/26, Kelana Jaya, 47301 Petaling Jaya,  
Selangor Darul Ehsan, Malaysia

*E-mail:* [enquiries@reneontech.com](mailto:enquiries@reneontech.com)

*Website:* [www.reneontech.com](http://www.reneontech.com)

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## FOUNDER'S FOREWORD

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When **Reneon Technologies** was first established in 2012, I had the vision to bring it to the forefront in *Engineering Intelligent Cities*.

Fast-forward 8 years, Reneon Technologies is an established engineering company specializing in Energy Management, Green Technologies & Energy Efficiency as well as Smart Building Consultancy.

With more than **80 buildings and projects** completed ranging from police stations, local municipalities' buildings, F&B outlets, office spaces, universities, hotels, malls, airports & property developers as part of our list of clientele, we have established ourselves in this area.

In Reneon, we hold true to our values of *Excellence, Candor, Continuity & Innovation* to ensure we offer our exclaiming clients & customers value added solutions at a cost effective pricing. The numerous repeat & recurring clients are evident to the value we bring through our cutting-edge solutions, offering fast returns and increase operational efficiency.

Moving forward, the team in Reneon Technologies is committed to continue serving our existing customers as well as on-board new clientele and provide a truly customized & value-added solutions. Reneon Technologies aims to position itself as the preferred Green & Smart Building Solution Provider not just in Malaysia but also in the ASEAN region.



*Your's Truly,*

*Ashwin Menon*  
CEO & Founder

# INTRODUCTION

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Reneon Technologies Sdn. Bhd. was established in 2012 by a team of high-performing young entrepreneurs that envisioned a future whereby a more sustainable and accessible energy sector will be established, not just within the country but also throughout the region.

We are an Electrical Engineering company which focuses on **Energy Management, Green Technologies & Energy Efficiency** as well as **Smart Building Consultancy**.

Ever since our formation, we have been totally committed in our continuous efforts to provide the best and price-competitive products, energy system solutions and services to our clients. Total client satisfaction with continuous and repeat business and strong support from our partners are our top priority and driving focus in our existence.



# CORPORATE CULTURE

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## ○ ***Innovation***

As a technology-centric company, to remain competitive we strive to be at the cutting edge of technology. We will continuously update ourselves on the latest technology trends and maintain a sense of curiosity that will drive the discovery of new and potentially more efficient and sustainable energy efficiency solutions.

## ○ ***Empowerment through Accountability***

As a young company, we believe in human capital development by empowering our employees through entrusting them with varying and diverse tasks. Nonetheless, empowerment without a sense of accountability is hollow. To truly develop our team, we encourage the notion of empowerment through accountability.

In our vision to be the paramount **one-stop-centre for energy saving opportunities**, we built the company around four crucial values:





# BUSINESS FOCUS

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## 1) ENERGY MANAGEMENT

*We provide equipment and installation services for monitoring various electrical parameters of buildings and other facilities. Besides that, we also provide data collection services to collect information on the energy consumption of a particular building or facility, including electrical, mechanical and environmental-oriented data.*

## 2) GREEN TECHNOLOGY & ENERGY EFFICIENCY

*We supply, provide installation and training services for energy efficient equipment which reduces overall energy consumption in a particular building or facility. Some of such energy efficient devices include voltage optimizers, power factor correction, maximum demand control and energy efficient lighting systems.*

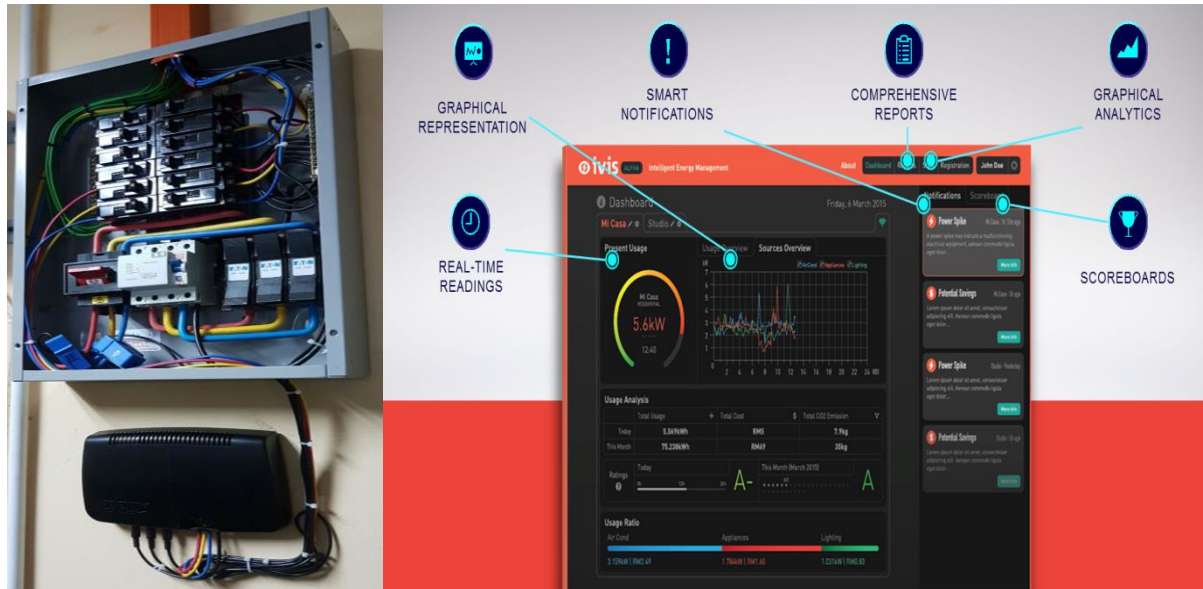
## 3) SMART BUILDING CONSULTANCY

*We render our services as energy experts to enable buildings to be more energy efficient through a combination of energy management systems, smart building controls, energy efficiency products as well as a unique & easy-to-implement Energy Conservation Measures (ECM).*



# PRODUCTS & SERVICES

## CLOUD-BASED ENERGY MANAGEMENT PLATFORM (IVIS)



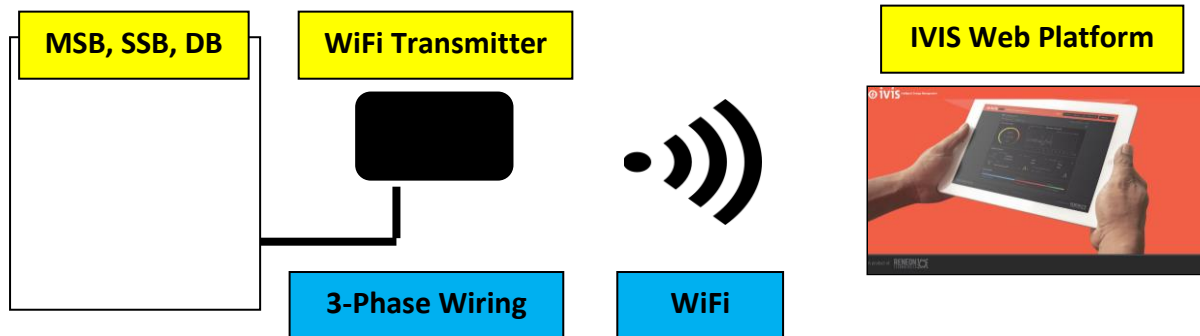
IVIS is our proprietary cloud-based energy management platform that identifies wastages & in-efficient equipment usage in Small & Medium sized buildings. IVIS is hyper-localized, modular & customizable; combining easy-to-integrate hardware (power & water sensors, autonomous smart control) coupled with a cloud-based energy analytics platform with detailed visualizations. The "LEGO-block-like-design" allows IVIS to be customized (sensors, control systems) as well as include tailor-made reports, displays & alert customization for different clienteles. The analytics platform itself has various features including real-time visualizations, reports, statistics, e-mail alerts & scoreboard/gamification to assist the end users. IVIS also enables autonomous smart building control system integration.

IVIS would be able to identify wastages & anomalies in the electrical data and alerts the user as well as provide easy to implement energy conservation measures (ECMs). The application of IVIS is ideal to be incorporated in future smart homes & smart buildings.

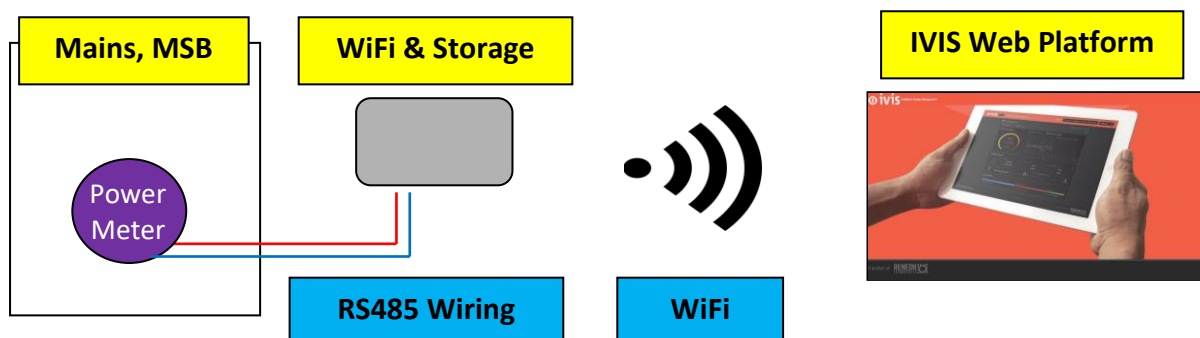


**IVIS uses hardware sensors to send data to the cloud-based energy analytics**

*IVIS Solution for Tariff A & B Buildings (Residential & Low Voltage Buildings)*



*IVIS Solution for Tariff C Buildings (Large Commercial Buildings)*





Key Value Proposition of IVIS

IVIS would be a great addition to both commercial & residential buildings, as it would enable end-users to continue being energy-efficient. The following are some benefits of utilizing IVIS:




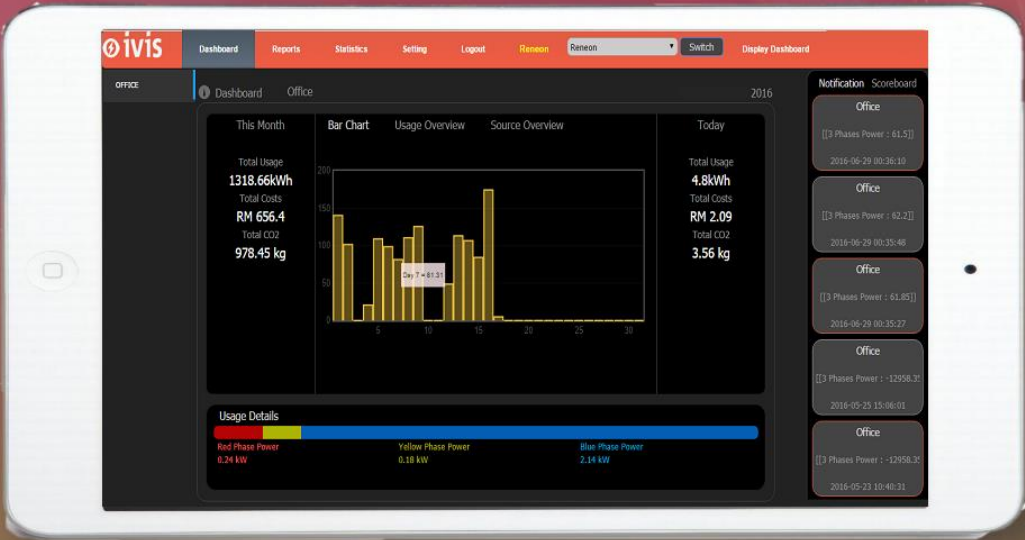




**SOFTWARE FEATURES**

[www.reneontech.com](http://www.reneontech.com)





1

Real-time Energy Data Visualization

2

Automated Alert Notification-Email

3

In-Platform Scoreboard System

4

CO2 Emission & BEI Information

5

3-Phase Electrical Power Ratio

[www.reneontech.com](http://www.reneontech.com)



TNB Tariff

None  
A  
**B**  
C1  
C2  
B

Save Cancel Delete

6

**Cost (RM)  
Calculation  
based on  
TNB Tariff**

**Detail  
Analysis &  
Statistics**

7



Reports Office 2016

Report Type: Average Power

Dec, 2016  
Nov, 2016  
Oct, 2016  
Sept, 2016  
Aug, 2016  
July, 2016  
June, 2016  
May, 2016  
April, 2016

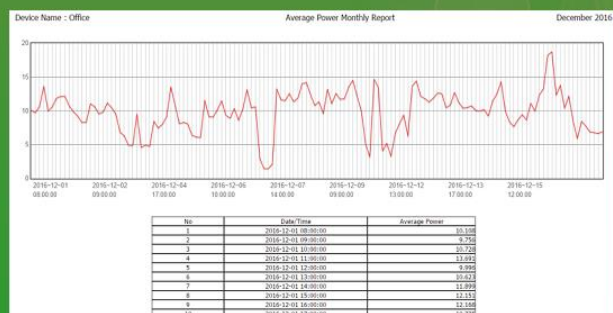
View View View View View View View View View


8

**Easy Report  
Download  
(csv & pdf)**

**Automated  
Report  
Generation &  
Customization**

9





Device Type
2016

**User Name**

**Device Code**

**Device Name**

**API Key**

**Email 01**

**Email 02**

**Email 03**

**Summary Field**

**Sum Up Field**

**Report Mode (Email)**

**Report Type (Email)**

**TNB Tariff**

**KW TOTAL**

**KWH**

**Max Demand**

Cyberview - Cyberview

CYB

Cyberjaya

None

None

B

Max

0

Max

0

Max

0

Save
Cancel
Delete
☐ Confirm To Delete

**10**

## Multi-Level User ID Assignment

**iVison Report**  
iVis Report Generator <reneonmail@gmail.com>  
 Reply-To: ashwin@reneontech.com  
 To: dinesh@reneontech.com

10:00 AM

Device Name : Office

Average Power Daily Report

2016

[Click Here To View Report with Graph Online](#)

No	Date/Time	Average Power
1	2016-12-16 08:53:20	7.89
2	2016-12-16 08:53:40	9.18
3	2016-12-16 08:54:01	8.82
4	2016-12-16 08:54:23	8.9
5	2016-12-16 08:54:44	9.53
6	2016-12-16 08:55:05	9.88
7	2016-12-16 08:55:27	9.63
8	2016-12-16 08:55:48	10.21
9	2016-12-16 08:56:09	10.13
10	2016-12-16 08:56:30	10.47
11	2016-12-16 08:56:52	10.07
12	2016-12-16 08:57:13	10.66
13	2016-12-16 08:57:34	10.67
14	2016-12-16 08:57:56	10.41
15	2016-12-16 08:58:17	10.69
16	2016-12-16 08:58:38	10.45
17	2016-12-16 08:59:00	10.86
18	2016-12-16 08:59:21	10.64
19	2016-12-16 08:59:42	10.55
20	2016-12-16 09:00:04	11.28

**11**

## Automated Email Summary Report

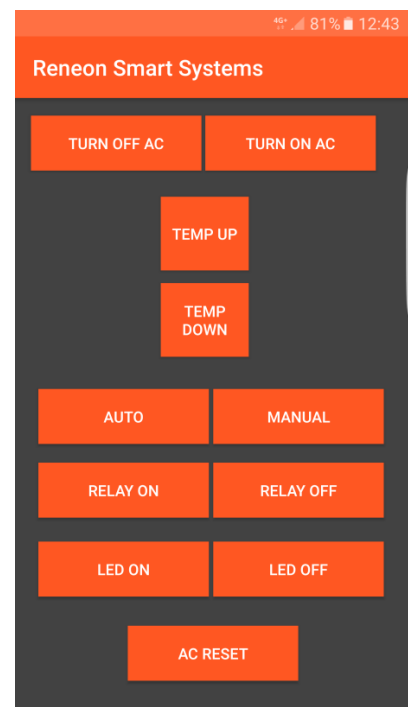
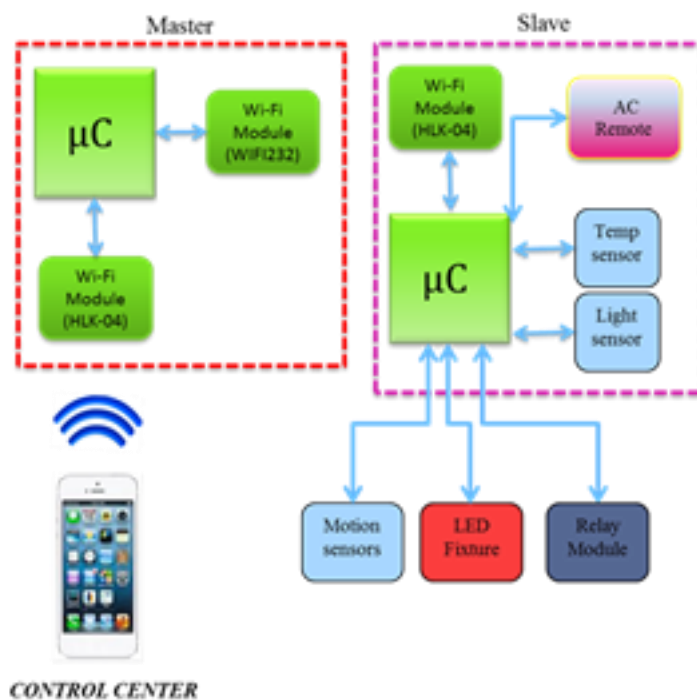
[www.reneontech.com](http://www.reneontech.com)

## WATER MANAGEMENT PLATFORM (IVIS - WATER)



Additional modules such as the water management module can also be added into IVIS. Combining ultrasonic flowmeters & transmitters, the water flow parameters through piping can be easily measured and this information is displayed graphically through the IVIS platform.

## SMART BUILDING CONTROL



The Smart Building Control system is utilized for residential application as well as office application with built in AC, LED & Relay controllers. This allows for autonomous & manual control of temperature, lighting and even electrical appliances. The system comes with an easy-to-use app which enables not just new buildings but existing buildings to adopt this smart technology.



## POWER OPTIMIZERS



Model	Description
<b>PowerTrack™ Single Phase Standard Models Ratings</b>	
PT-G1030	1P/30A/6.5KVA
PT-G1063	1P/63A/15KVA
<b>PowerTrack™ Three Phase Standard Models Ratings</b>	
PT-G3020	3P/20A/15KVA
PT-G3030	3P/30A/22KVA
PT-G3040	3P/40A/28KVA
PT-G3063	3P/63A/45KVA
PT-G3080	3P/80A/58KVA
PT-G3100	3P/100A/72KVA
PT-G3150	3P/150A/108KVA
PT-G3200	3P/200A/144KVA
PT-G3 XXX	<i>Models above 200A are available upon order.</i>

Power Optimizers are an energy efficiency solution that delivers real power savings (kW) with an average between 5% – 20%. This is a solution that can be utilized for buildings situated nearby a utility substation as well as buildings with large consistent load.

## SERVICES PROVIDED

**IVIS  
Solution  
Installation**

**Training &  
Briefing  
Session**

**Basic &  
On-line  
Consultancy**

**Energy  
Audit -  
Partners**





# PROTECT YOUR APPLIANCES AND SAVE MONEY!

## SAVE ELECTRICITY BILLS

IVIS helps you save on monthly electricity usage through key energy-saving measures:



Identifying issues



Determining large power guzzlers



Reduce wastages

## ADDED SAFETY MEASURES

IVIS also helps monitor your electricity usage in real-time:

Large and erratic power spikes indicate spoiled appliances



Take preventive steps and schedule regular maintenance



Attain early identification of issues through email alerts



Every kilowatt hour (kWh) reduced is equivalent to **747 grams of CO2 emission**, the same amount of emissions released by an air conditioning unit running for *only* an hour!

# SUBSCRIBE NOW FOR ONLY **RM100** month

Take charge of your energy consumption and electricity bills. Contact us now to know more!

[www.reneontech.com/ivis.html](http://www.reneontech.com/ivis.html)

@enquiries@reneontech.com

HP# +6013 4900 528



### CONTRACT TERMS & CONDITIONS

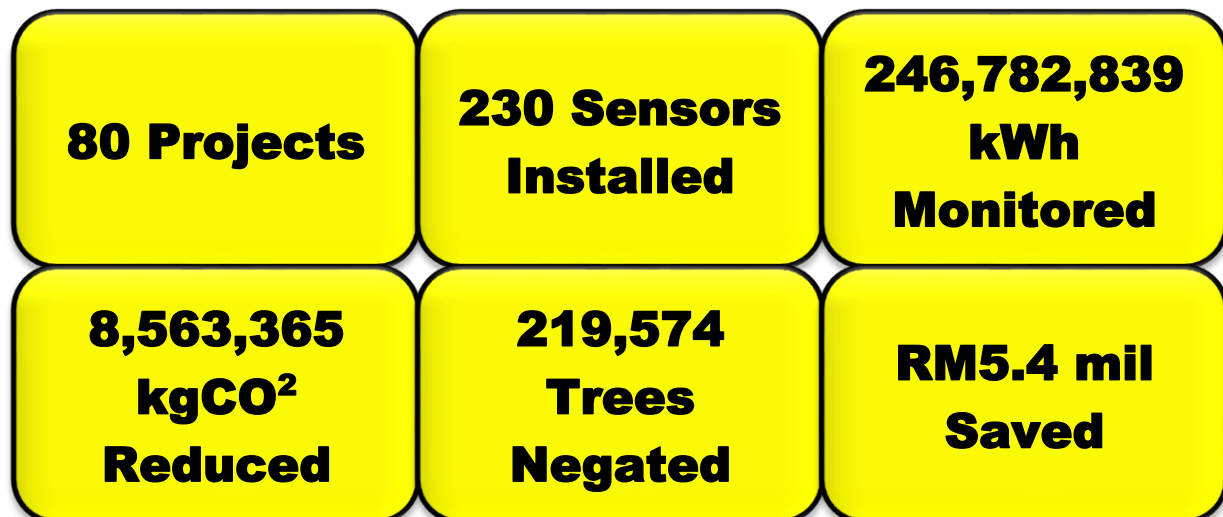
1. The minimum subscription period (or contract period) for IVIS (henceforth "The Service") is 24 months from the date the service is activated.
2. Customers are to pay their Subscription Fees at the beginning of each month for the duration of the Contract Period.
3. General Terms & Conditions apply and can be subject to change.

## TRACK RECORD & CASE STUDIES

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Reneon Technologies has completed over 80 projects throughout Malaysia; ranging from **commercial, industrial & residential buildings**



## COMMERCIAL BUILDINGS



**Project Description:** Through our partnership, Reneon has successfully installed IVIS at various office complexes & buildings be it for **Multi-National Corporations (MNCs)** as well as **Social Enterprises**. This is in line with our vision to support the Sustainable Development Goals (SDG) for a brighter & environmental-friendly future.

**UZMA Group's** office building was Reneon's first foray into the Smart Office segment. The project spans an entire floor which comprises of numerous sensors as well as the IVIS monitoring system.

**Estimated Savings: 5% - 15%**

## EDUCATION INSTITUTIONS



**Project Description:** PICOMS (Batu Caves) was a project that utilized IVIS to measure the savings achieved due to the installation of green gas on campus. This was an important component of the overall system, as it was through IVIS that the green gas provider was able to prove the effectiveness of their solution.

**Taylor's Education Group** embarked on a green initiative throughout all their international schools & campuses. This initiative was dependent on the IVIS solution to assist them in managing their power usage. Since then, numerous other schools & universities have adopted IVIS.

**Estimated Savings: 4% - 15%**



## FACTORIES


**Hamilton Sundstrand**

A United Technologies Company


**NICHIAS FGS SDN. BHD.**

**Dynacraft Industries**

A Member of the Hong Leong Group


**MARDEC**  
 BERHAD

**HALCYON**

**TEXCHEM**


**Project Description:** A cloud-based energy monitoring system was deployed to assist the client in identifying wastage and to perform benchmarking on their facility. The system was also used to tracking the facilities performance every month to ensure the operation were running as efficiently as possible.

The system was also used in testing various energy saving solution to see of their effectiveness and to implement maximum demand management to allow client to maximise the saving from these projects.

**Estimated Savings: 3.5% - 11%**

## GOVERNMENT BUILDINGS



**Project Description:** SEDA's Low Energy Office (Kota Kinabalu) utilizes IVIS to monitor its power usage for an office environment. The system is capable of monitoring power usage of key appliances (i.e. office appliances, lighting & general appliances) in real-time and this information is displayed on a LED screen on-site as well as through the cloud platform.

Reneon has also participated in various energy auditing projects primarily for large office buildings & complexes. We primarily assist in the energy logging exercise and collaborate with our partners to completed the entire energy audit project.

**Estimated Savings: Vary**

## LOCAL MUNICIPALITIES



**Project Description:** IVIS monitoring system was deployed in **10 Local Municipal Buildings** with the primary goal of monitoring the incoming power consumption of these buildings and allowing for the building maintenance team to study the overall power consumption and take the necessary steps towards reducing the usage & consumption.

Besides that, the power consumption to the server rooms of these buildings are also monitored to identify power spikes/wastages as well as serve as an early alert system in the event of large power anomalies.

**Estimated Savings: 5% - 10%**

## MALLS & SHOPPING COMPLEXES






**Project Description:** Avenue K and Tropicana Golf & Country Club utilized the IVIS solution to manage their Maximum Demand usage. Both of these buildings required this information to assess the effectiveness to adopt either the OPTR and/or ETOU tariff schemes.

**Sunway Pyramid & Publika** malls utilized IVIS as a portable data logger to ascertain their baseline power consumption at particular areas prior to any energy conservation measures being implemented.

**DPulze Shopping Centre** utilized the IVIS solution to manage their Maximum Demand and energy usage. In addition to that, they also used the energy monitoring system for monthly report for the internal use. They are also use the system to cross check the billing for the tenants in the shopping mall.

**Estimated Savings: 10% - 15%**

## PROPERTY DEVELOPERS & RESIDENTIAL



**Project Description:** IVIS was installed at numerous sites for **Eco World** namely their HQ in Setia Alam, as well as offices in Penang (Eco Meadows, Eco Terrace & Macalister Gallery). The main objective of the project was to showcase the importance of a low-cost cloud-based monitoring solution of upcoming smart home, smart offices & smart building projects.

**Cyberview Sdn Bhd** has been a strong supporter of the IVIS solution (being one of the earliest pilot projects). Data collected through the IVIS platform was then utilized to justify the purchase of Power Optimizers for their SME Technopreneur Office Building. A distinct saving in power consumption was identified in comparison to the baseline load that was monitored and captured through IVIS.

**Estimated Savings: 10% - 15%**



## RESTAURANTS & HOTELS



*Holiday Inn*<sup>®</sup>



*Secret Recipe*<sup>®</sup>



**Project Description:** IVIS was installed at Starbucks TTDI, Bake with Yen (Puchong) as well as Nathalie Gourmet Studio (Publika). Through the monitoring system, power consumption attributed to the chilling (chillers, refrigerators, AC) and heating (coffee machines, deep fryers) operations consumed the most for this market segment. Taking simple steps based on the alerts and real-time information from IVIS, allowed the store managers to save electricity usage and inadvertently pay less to the utility company.

Similarly, IVIS has been utilized in hotels to monitor & manage the electricity consumption in the premises. It is inevitable that energy consumption contributes to one of the highest operational expenditure in the services industry and IVIS helps our clientele to manage this aspect of their spending.

**Estimated Savings: -**

## TRANSPORTATION HUB



**Project Description:** A cloud-based energy monitoring system was deployed at both **Kuala Lumpur International Airport (KLIA)** and **Penang International Airport** consisting of 23 units of meters to monitor energy consumption. In tandem, various energy efficiency equipment were installed and saving derived were accurate monitored through IVIS.

Reneon participated in an energy auditing project for the **LRT KJ Line**. Primarily the job scope involved the electrical data acquisition & compilation for 24 LRT Station of the Kelana Jaya Line.

**Estimated Savings: 10% - 40%**

# MANAGEMENT TEAM

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***Ashwin Menon***

## ***Director & Founder***

- MSc Electronic, Communication & Computer Engineering

Ashwin has been the resident trouble-shooter and IT expert ever since the inception of the company. He has continuously offered creative solutions to technical and organizational problems that the team has faced. He is also an avid technologist and is constantly on the lookout for the latest development in the electronics and IT sector. In a gist he is the “hipster” in the team and continues to lead the cutting-edge product development in Reneon Technologies.



***Dinesh Selvamurthy***

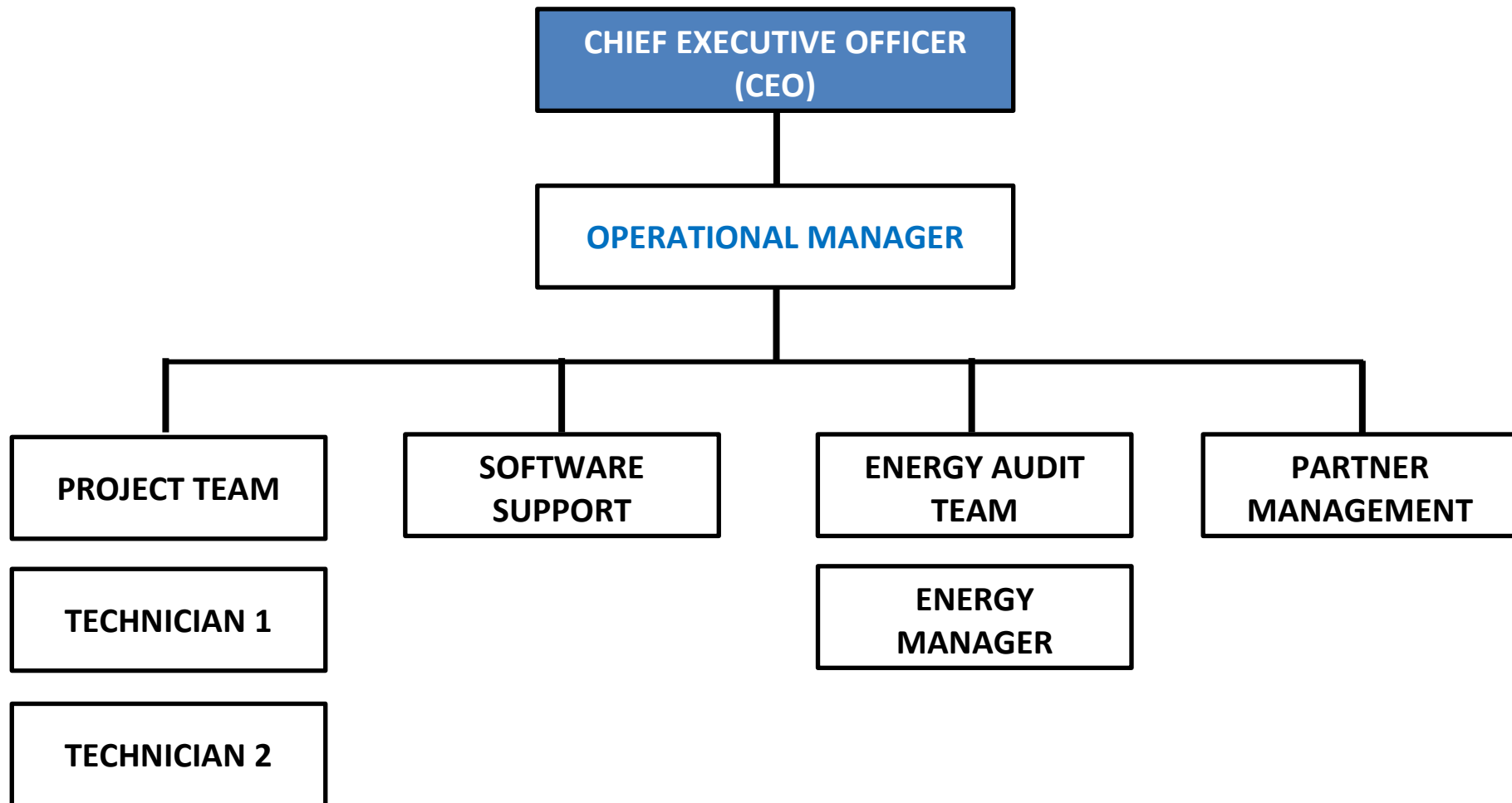
## ***Director***

- MEng Electrical & Electronic Engineering
- National Winner of James Dyson Design Award 2011

Graduating with top honours from the University of Nottingham, Dinesh has been on a fast-track to getting a corporate job at a leading strategic investment firm in Malaysia with projects in the energy, real estate & hospitality industries. However, his passion in green technology led him to join Reneon Technologies. Ever since then, he has been the “hustler” in the team and continues to pursue each and every opportunity to grow the company.

# ORGANIZATION CHART

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## PARTNERS & AFFILIATIONS

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### CORPORATE PARTNERS



### NGO & SOCIAL ENTERPRISES





## STRATEGIC INVESTORS



## GOV AGENCIES AFFILIATIONS



## RESEARCH & DEVELOPMENT (R&D) COLLABORATORS



## ASSOCIATIONS





**Sustainable Energy Development Authority Malaysia (SEDA Malaysia)**

Galeria PJH, Aras 9, Jalan P4B, Persiaran Perdana, Presint 4, 62100 Putrajaya, Malaysia

T: +603 - 8870 5800 F: +603 - 8870 5900 E: info@seda.gov.my

www.seda.gov.my

Ruj. : SEDA.SE/EM-ADM/SEDA/KK ( 13 )

Tarikh : 20 Mei 2015

En. Ashwin Menon A/L Jayamohan  
Pengarah Reneon Technologies Sdn Bhd  
315, 3<sup>rd</sup> Floor, Block B, Kelana Square  
17, Jalan SS7/26 Kelana Jaya  
47301 Selangor  
Tel: 03-78876188

Tuan,

**Re: Request For Letter Of Support (LOS) for the Wireless Energy Monitoring System (WiEMS)**

Dengan hormatnya perkara di atas adalah dirujuk dan surat tuan bertarikh 13 April 2015 yang berkaitan.

2. Sukacitanya dimaklumkan bahawa pihak SEDA Malaysia sentiasa menyokong usaha syarikat-syarikat tempatan seperti Reneon Technologies Sdn Bhd dalam membangunkan teknologi sistem *Wireless Energy Monitoring System (WiEMS)* ini. Teknologi sistem WiEMS ini dilihat berupaya memudahkan urusan tugas pemantauan tenaga kepada pemilik bangunan dan membantu mengurangkan kos operasi pemantauan melalui penjimatan kos perjalanan dan masa. Sistem WiEMS ini juga telah dipasang dan menyokong aktiviti di bawah pengurusan tenaga secara berterusan oleh SEDA Malaysia bagi pemantauan penggunaan kuasa dan tenaga di pejabat SEDA LEO cawangan Sabah.

3. Sekian dimaklumkan perkara-perkara di atas untuk makluman dan perhatian tuan.

Terima kasih.

**STEVE ANTHONY LOJUNTIN**

Ketua

Unit Pengurusan Permintaan Tenaga

SEDA Malaysia

**Edaran Dalaman:**

Ketua Pegawai Eksekutif, SEDA Malaysia



Our. Ref. : MGTC/SW/16-001  
Date : 19 July 2016

**Mr. Dinesh Selvamurthy**  
Reneon Technologies Sdn Bhd  
310 Block B, Kelana Square  
Jalan SS7/26  
Kelana Jaya  
47301 Petaling Jaya  
Selangor

Dear Sir,

**REGISTRATION OF APPROVED SUPPLIER LIST IN MALAYSIAN GREEN TECHNOLOGY CORPORATION**

The Procurement Unit of Malaysian Green Technology Corporation has carefully reviewed your application for the registration to be our approved supplier against our requirements. We are pleased to inform you that, following the evaluation process, your application was successful.

Registration number for your company is **GTM 0113**. Registration will be effective from **7 September 2015 until 8 September 2018**. Please use the registration number for official reference when dealing with us.

We thank you for your interest and time in submitting your application.

Best regards,

A handwritten signature in black ink, appearing to read "Roszana Yusoff", is written over the printed name.

**Roszana Yusoff**  
Manager, Sustainable Workplace  
Green Community  
Malaysian Green Technology Corporation

**MALAYSIAN GREEN TECHNOLOGY CORPORATION (462237-T)**  
No.2, Jalan 9/10, Persiaran Usahawan, Seksyen 9, 43650 Bandar Baru Bangi, Selangor Darul Ehsan  
Tel: 03 8921 0800 Fax: 03 8921 0801/03 8921 0802 Email: info@greentechmalaysia.my  
[www.greentechmalaysia.my](http://www.greentechmalaysia.my)

## CYBERJAYA CITY INNOVATION COUNCIL



Our Ref : CSB/600-4/10/4 (7)

13 October 2016

**DINESH SELVAMURTHY**

Founder & Business Developer  
Reneon Technologies Sdn Bhd  
310, 3<sup>rd</sup> Floor, Block B, Kelana Square,  
17, Jalan SS7/26, Kelana Jaya 47301,  
Petaling Jaya, Selangor

Dear sir/madam,

**RE : INVITATION TO BE CORPORATE PARTNER OF CYBERJAYA CITY INNOVATION COUNCIL**

The above matter refers. We are pleased to inform you that the Cyberjaya City Innovation Council ("CIC") has recently been established in July 2016. This Council is the result of a collaborative effort to realise the vision mandated by the government to elevate Cyberjaya into a Global Technology Hub ("GTH"). The CIC members consists of the main stakeholders of Cyberjaya to streamline collaborative efforts for the implementation of the GTH agenda. The GTH agenda outlines the vision of a city which adopts intelligent technologies to promote efficient city living, increase the quality of life and enhance greater sustainability for the environment in compliance with the Low Carbon City Framework ("LCCF").

With the above in mind, we have nominated Partners through endorsement of the CIC for the implementation of Cyberjaya's Smart City projects. The general criterion guided by the CIC in alignment for strategic implementation of Cyberjaya Smart City projects are as follows:

- Enable Cyberjaya's citizen empowerment towards improving quality of life and creating a safe city through technologies
- Solutions which provide intelligent technologies to manage environmental sustainability, in line with increasing Cyberjaya's LCCF metrics
- Put in place the drivers and enablers which provide opportunities in technology advancement in Cyberjaya
- Co-promotion of Cyberjaya as a Smart City and the use of Cyberjaya as a test bed or living lab for new technologies.

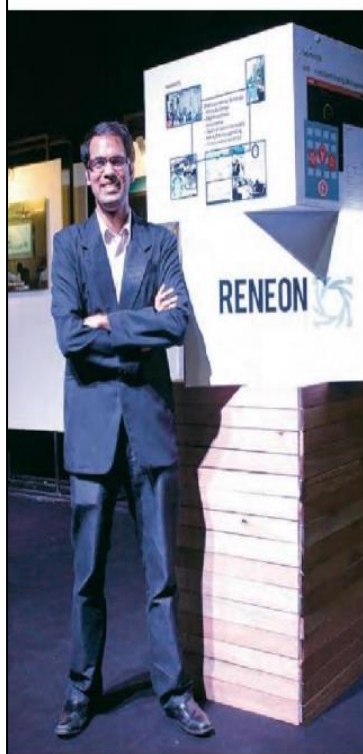
As such, we are pleased to invite your esteemed organisation to be the Corporate Partner of Cyberjaya City Innovation Council to strengthen our initiatives and spur new collaboration in enabling Cyberjaya Smart City projects.

We are attaching herewith the Corporate partners' programme and CIC information for your reference.

We look forward to your favourable reply.

## MEDIA FEATURE & AWARDS

2015



Dinesh says IVIS combines the power of sensors and cloud-based management to manage electricity usage at low cost.

## Using software to reduce power usage

**R**ENEON Technologies is in the business of helping consumers optimise their energy usage and in the process reduce carbon emissions.

It all started at the end of 2014 when the electrical engineering company found a technological gap in the market for a low-cost, wireless energy management system.

With that, the idea for IVIS was birthed and the system was eventually launched in 2015.

IVIS is Reneon Tech's proprietary energy monitoring system which enables users to view real-time electricity consumption.

based energy management solutions and offers energy services involving data logging to help end-users reduce energy usage.

IVIS combines detailed visualisations and alerting mechanisms that holistically assists end-users to optimise their energy usage, while also helping to reduce carbon emissions. Targeting primarily commercial buildings and residential homes, the system aims to achieve sustainability and value-added results to optimise and reduce energy costs.

"There are three main components for the system to work," Dinesh explains. "One is a three-point sensor which we install at the main switch board of a build-



Reneon Technologies Sdn Bhd Leader: Dinesh Selvamurthy Website: <http://www.reneontech.com/index.html> Email: [dinesh@reneontech.com](mailto:dinesh@reneontech.com)



The second component is a software which can calculate and detect any electrical appliance that uses the most energy at any one time. One of its projects was to install the system at the lobby of a condominium in Damansara, Kuala Lumpur. "There was a misconception that in lobby areas of buildings, lifts consumed the highest power. However, after the system was implemented and seeing the results, we found that wastage came mainly

from their water features," says Dinesh, an electrical and electronic engineer.

The third component, he adds, is the consultation and advice on how to use the system.

#### OVERALL IMPACT

On the overall impact of the system on sustaining clean energy and preventing energy wastage, Dinesh says: "The impact starts with something small. Every kilowatt power of electricity that you save equals to carbon emissions of 0.747kg of carbon dioxide. So if you could save 10% of your electricity usage per month and multiply that by your yearly usage, it could amount to a lot of savings, especially if everyone does the same thing. On top of that, you are not only saving money by using less electricity; the reduction in carbon emissions from the reduced usage will help the environment, so it's a win-win situation."

Moving forward, Reneon Tech hopes to be a smart city technology company, which Dinesh envisions will expand into the Internet of Things (IoT) technology.

"We are currently writing a pilot-project proposal for the Philippines. We are also targeting Vietnam for our next market, along with Indonesia and Singapore. We are looking at not to just be a national company but a Malaysian company with an Asian tinge to it," Dinesh says. ■



Dinesh explaining how the IVIS software can help users optimise their energy usage.

**“** We are currently writing a pilot-project proposal for the Philippines. We are also targeting Vietnam for our next market, along with Indonesia and Singapore. We are looking at not to just be a national company but a Malaysian company with an Asian tinge to it. **”**

– Dinesh  
Reneon Technology

2016





Daftar Harga

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PRODUCT REVIEW WHAT'S HOT TECH NEWS

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## 13

Dec 2016

### Beragam Startup Menarik di Asia yang Inspiratif!

Dr. Acer

Berkembangnya dunia *digital* bisa kamu lihat dari semakin banyaknya jumlah *startup Asia* yang muncul, terutama di wilayah Asia. Hanya pada tahun 2014, *TechInAsia* mencatat setidaknya ada enam puluh perusahaan yang berhasil meraih predikat *unicorn*, yakni memiliki valuasi senilai lebih dari US\$1 miliar atau sekitar Rp 13,2 triliun. Jumlah tersebut naik 700% dari tahun sebelumnya yang hanya memiliki empat perusahaan dengan predikat *unicorn*!

Jumlah tersebut tentu belum termasuk *startup* Asia lainnya yang masih berada dalam tahap perintisan. Dari sekian banyak *startup* yang ada di Asia, kamu bisa melihat beberapa yang paling menarik di bawah ini.

#### iVIS

Harga listrik di Indonesia sepertinya semakin mahal saja, *ya*? Kamu pun harus pintar berhemat demi menekan pengeluaran listrik. Menyadari masalah tersebut, Reneon Technologies menciptakan produk iVIS untuk membantu mengecek penggunaan listrik secara digital. Produk ini menjadi sistem monitor yang juga membantu penghematan energi listrik. Para penggunaanya dapat mengecek secara *real-time* berdasarkan data yang terkumpul melalui *wireless sensors* dari perangkat yang terpasang di lokasi.

iVIS terdiri dari dua bagian, yakni *hardware* dan *software*. Apabila bagian *hardware* berbentuk sebuah boks yang dapat dipasang sendiri di rumah, maka bagian *software* berfungsi untuk memantau penggunaan listrik secara *real time*. iVIS akan memberi tahu jika ada lonjakan penggunaan listrik yang tidak normal. Produk ini dapat membantu pengawasan dari skala kecil yaitu rumah, lalu bank, hingga kota dalam penggunaan listrik.

Meski bergerak pada bidang bisnis yang berbeda, jika diperhatikan lagi, kebanyakan *startup* di atas berangkat dari hal yang sama, yaitu masalah sederhana yang ditemukan pada kehidupan sehari-hari. Kamu pun bisa melakukan hal yang sama. Tidak ada kata terlambat untuk memulai bisnis *startup*. Buka mata dan telinga lebar-lebar untuk menemukan isu yang bisa kamu angkat, selanjutnya lakukan berbagai analisis untuk membangun *startup* yang mampu menyediakan solusi dari isu tersebut. Selamat berkarya!


DATA
TENTANG TEKNOJURNAL
KONTAK KAMI

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3 Startup Menarik di Tech in Asia Singapore 2015



Review Lenovo A6000 – Smartphone 4G-LTE Dengan Harga Terjangkau



6 Tips Aman Berbelanja Online



Sekarang ini harga listrik makin menanjak di Indonesia dan untuk pintar-pintar berhemat pun tantangannya adalah tidak detailnya struk pengeluaran listrik tiap bulannya. Reneon Technologies melalui produk mereka iVIS menyediakan solusi untuk kasus tersebut dengan mengecek penggunaan listrik secara digital.

iVIS terdiri dari 2 bagian yaitu bagian *hardware* dan *software*. Bagian *hardware*-nya adalah sebuah boks yang dapat dipasang sendiri di instalasi listrik rumah dan bagian *software*-nya berfungsi untuk memantau penggunaan listrik secara *real-time*.



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### Featured businesses

#### Jeepney Tours

Tourism

Philippines

We take pride in the fascinating attractions of Manila - the Jeepney as the Philippines cultural icon, the Filipino hospitality and the soul of "fun" experiences. This is something that we want to share with every visiting traveller, and create a positive impression of the Philippines.

A "Daily City Tour" service was born to do that. Guests hop onboard a custom built air-conditioned jeepney, with tour guides dressed in local costumes as they explore the fascinating sights of Manila.

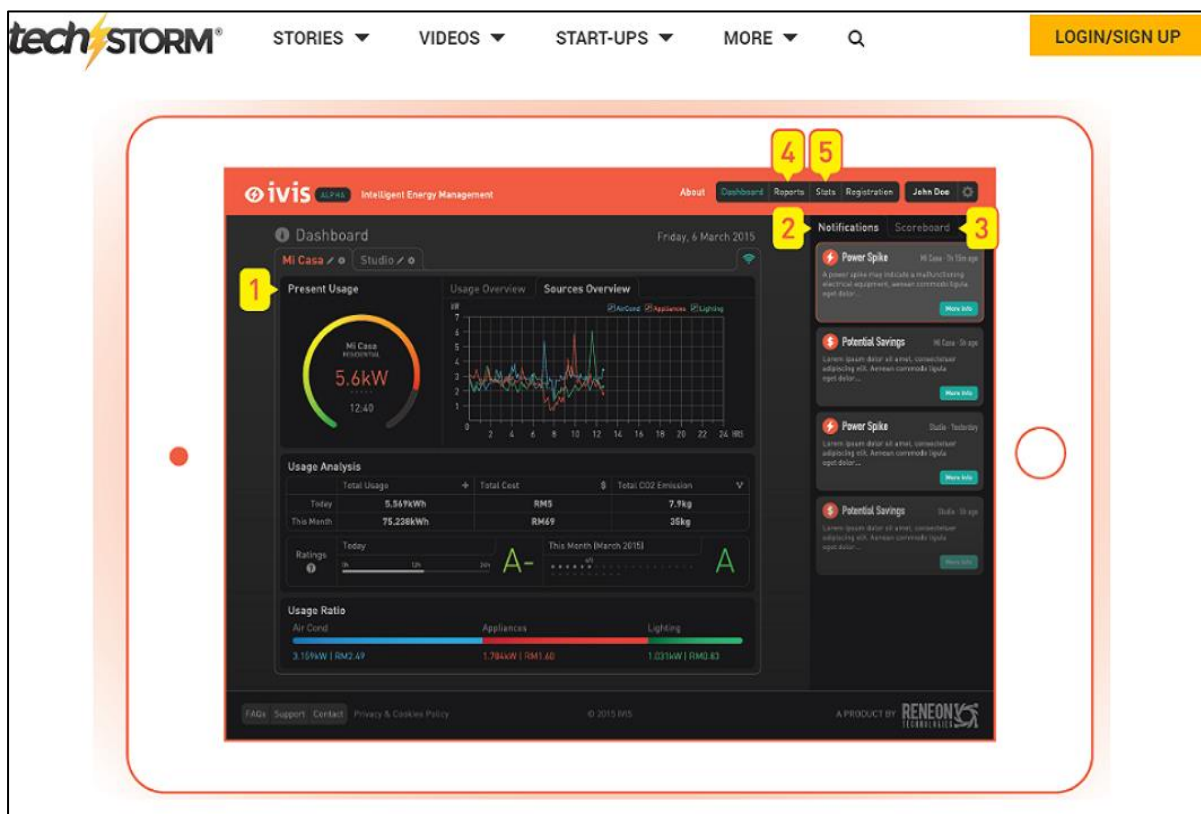
#### Reneon Technologies

Information Technology

Malaysia

Reneon Technologies was founded by passionate technologists who wanted to shape cleaner, greener & smarter cities for the future. We envisioned a world whereby environment conservation comes hand-in-hand with the community, and without a doubt, technology such as IVIS will accelerate this process.

Only through embracing smart systems can we empower individuals & businesses alike towards sustainability and this will inadvertently reduce carbon emissions towards a better future for the next generation.



2017

THEEDGE MALAYSIA | MAY 15, 2017

AF7 |

## CYBERJAYA, A GAME CHANGER

HARIS HASSAN/THE EDGE



“The complete tech eco-system is found in Cyberjaya. There are government agencies, creative companies, universities and programmes related to the creative and technology industry. A unified and complete eco-system is critical to the growth of this industry.” **Nizam**

“We have completed more than 50 projects in the country and Cyberjaya remains our gateway to regional and global expansion.” **Dinesh**

“The development of Cyberjaya has allowed us to attract and retain talent, which is our most precious asset.” **Khairil Adri**

“A world-class infrastructure is also important. Cyberjaya's high-speed fibre network, stable electricity supply and reliable data centres have been crucial to our operations.” **Noor Helmi**

the development of tech companies and, subsequently, a digital economy.

“Cyberjaya's mature infrastructure, which is constantly being improved upon, has benefited businesses such as Basis Bay and other local and global tech companies. Such support from such an ecosystem is crucial and very important for us to conduct our business effectively,” says Thyaga.

He adds that good governance and best practices implemented by Cyberjaya's stakeholders to cater for the needs of multinational corporations in their locality has benefited local companies and contributed to a positive outlook for tech companies, especially those offering data centre and cloud services.

“Although the current economic environment is subdued, due in part to the rising US dollar, the latest outlook for the tech industry indicates steady growth. Emerging trends such as cloud computing, blockchain, digital businesses, artificial intelligence and financial technology (fintech) will eventually change the economic landscape,” says Thyaga.

## RENEON TECHNOLOGIES SDN BHD

The team at Cybertview, led by Datuk Faris Yahaya, can be credited for attracting start-ups, multinational corporations and companies to Cyberjaya, says Dinesh Selvamurthy, co-founder and business developer at Reneon Technologies Sdn Bhd.

“Datuk Faris and his charismatic team are the enablers of the tech community in Cyberjaya. Through their continuous support, Reneon was able to embark on its pilot project and this was the turning point for the business,” he says.

Reneon is an engineering company that focuses on energy-conservation solutions. Established in 2014, it received funding from the Enterprise Ignite Accelerator

programme of 1337 Ventures, an early-stage venture capital and technology accelerator. The programme gave Reneon the opportunity to pilot its energy monitoring system in the CoPlace buildings in Cyberjaya.

“Cybertview was also part of this programme and it gave us this opportunity. With our pilot system, we had the ideal portfolio and a track record of a successfully implemented solution. This opened the door to more projects and funding,” says Dinesh.

“As part of Cyberjaya's tech community, we were also given the opportunity to explore synergistic collaborations with multinationals, other start-ups and small and medium enterprises. To date, we have completed more than 50 projects in the country and Cyberjaya remains our gateway to regional and global expansion.”

He adds that the people, partnerships and opportunities found in Cyberjaya set it apart from other cities. “This cyber city has been able to attract innovative and entrepreneurial individuals with a common goal of building technology that can benefit humanity. This is an immense pool of talent for companies such as Reneon to leverage.”

“Furthermore, Cyberjaya is home to 500 MSC-status companies. This is a big market of potential partners or end users. All these factors definitely make it a city of opportunities.”

## DREAMEDGE SDN BHD

Like Cyberjaya, DreamEDGE Sdn Bhd is a decade old this year. The digital engineering and consultancy company was incorporated in March 2007 and started operating from a 2,500 sq ft shopoffice in the cyber city a year later.

It has since grown to 120 employees with centres across Malaysia while its corporate and research and development centre occupies a 40,000 sq ft office in iTech Tower in Cyberjaya. The company also has a cen-

tre of excellence for high-value engineering services in Autoville, also in Cyberjaya, where it focuses on rapid prototyping, reverse engineering, additive manufacturing and low-volume productions.

“I was in Japan when the Multimedia Super Corridor programme, aimed at transforming Malaysia into a knowledge-based economy, was launched in 1996. It was exciting news and all the global information and communications technology (ICT) players were excited. I managed to secure funding to start a business in Cyberjaya,” says DreamEDGE founder and CEO Khairil Adri Adnan.

In 20 years, Cyberjaya has evolved from a township with basic infrastructure to attract tech entrepreneurs into a cyber city that is actively working towards becoming a premier global technology hub. “It is a liveable city with amenities such as mosques, schools, public transport, shopping mall, food and beverage outlets, recreational areas, high-speed internet and world-class data centres,” says Khairil Adri.

“The development of Cyberjaya has allowed us to attract and retain talent, which is our most precious asset. As the sustainability of our business relies on the constantly improving tech ecosystem, talent — especially Generation Y — is needed to drive our growth.”

“Cyberjaya is ideal for companies such as DreamEDGE that are passionate about driving innovation and technology. Multinational corporations and other cutting-edge companies based in the city have influenced our growth as we have the opportunity to benchmark, exchange ideas and network,” says Khairil Adri.

“Being part of the growing tech community in Cyberjaya has also pushed us to constantly challenge our value, services and delivery as we strive to become the global provider of choice for innovative technology-driven solutions and services.” ■







## Press Releases

### **MIMOS' SMART CONTROLLER FOR BUILDINGS TO HARNESS FULL POTENTIAL OF INDUSTRIAL IOT**

Thursday 30/11/2017

*Paired with Reneon's energy management platform, the system enables direct control of energy consumption*

**BUKIT JALIL, Nov 30 (Bernama) --** National research and development (R&D) centre in information and communications technology (ICT), MIMOS through its unit MIMOS Semiconductor (M) Sdn Bhd (MSSB) has unveiled a smart controller system for smart buildings that allows facility managers to not only better understand their energy consumption patterns, but also have direct control over it.

The Secured Smart Controller (SSC) is an interlinked network of hardware and software, which monitor and control the environment, space and facilities in commercial and industrial buildings. The SSC system ensures optimum operational performance of the facility as well as the comfort, energy-saving and safety of building occupants.

The SSC coupled with an Autonomous Intelligent Ambient Control System is an Internet of Things (IoT) solution capable of turning an industrial building into a smart establishment. Reliable and secure, the SSC system has been shown to possess energy savings of up to an estimated 50 percent in lightings and 30 percent in air conditioner applications. Designed to be simple to use, the system autonomously monitors and controls ambient parameters such as temperature, and room space brightness.

In unveiling the product, MIMOS has also announced that it is working together with Reneon Technologies, a Malaysian startup that specialises in IoT, smart building and energy efficiency services and solutions.

MSSB General Manager Wan Azli Wan Ismail, who is also MIMOS Vice-President for E&E Sector said: "MIMOS supports local startups company by transferring our technologies. Partnering with Reneon Technologies allows MIMOS to integrate our SSC with Reneon's cloud-based energy management platform to produce a comprehensive energy management solution."

Reneon Director Ashwin Menon said: "Our collaboration with MIMOS has allowed Reneon to speed up the R&D process for product development. The expertise and vast knowledge provided by MIMOS together with the market experience provided by our company has allowed us to build a solution that caters to the requirement of the market while keeping costs low and without compromising on features and quality."

"This collaboration has certainly been very useful to us and we hope there can be more such collaborations in the future. A market roll-out for the SSC system has been planned by first quarter of 2018," he added.

2018

## Reneon Technologies: Custom-built Solutions for Energy Management



**Ashwin Menon, Founder and Director**

As the global community embraces sustainable energy sources, commonly known as going 'green', energy efficiency becomes the buzzword of today. Effective and efficient energy management has a positive impact on the overall cost of operations at any facility and a sound energy management strategy ensures business success on the whole. However, implementing a feasible energy monitoring strategy is easier said than done, owing to the complexities and the size of opportunities in the energy sector. IVIS, an energy monitoring & management system created by Malaysian-based Reneon Technologies, provides a quick resolution to this concern.

IVIS is an award-winning, cloud-based energy management platform which identifies energy wastage and inefficient usage of energy equipment in small and medium-sized buildings. This amazing yet simple piece of technology is achieved by combining easy-to-integrate hardware, power and water sensors, autonomous smart control, and comes with a cloud-based energy analytics platform.

The team at Reneon Technologies follows a simple methodology, involving a three-stage process that is applied to every client. The energy usage pattern of an organization is first analyzed which then provides a baseline reference point of the energy consumed. This is followed by the company working in tandem with the client to create a tailored energy monitoring solution. "We find out the kind of standard operating procedure our clients are following and then we introduce technologies that will not only maximize their savings but also provide a cost-effective solution to save energy," says Ashwin Menon, founder and director of Reneon Technologies.

APAC CIO Outlook TOP 10  
**SMART CITY**  
 CONSULTING/SERVICES COMPANIES - 2018

In one instance, a client wanted to monitor the energy usage across different locations. As opposed to complex and cumbersome cabling, Reneon deployed LoRa-based wireless technology, which enabled the client to monitor energy consumption across locations in a cost-effective manner. "We understand that different customers in diverse industries have varied needs, and as such customizability and our core focus on quality are our key incentives", says Ashwin.

Another client of Reneon who has an office tower wanted a holistic solution to enable them to reduce their overall energy consumption. Reneon Technologies deployed an energy monitoring & control system which not only allows the client to monitor their power utilization in real time but also to take proactive & preventive actions to reduce their consumption. The client and their staff were also provided a training session to empower them on the key Energy Conservation Measures (ECMs) that could be implemented with the insights derived from IVIS. The client benefited greatly from this as they were able to identify key areas of energy wastages, which had eluded them previously and the expected savings from this exercise was as high as 30 percent of their overall energy cost.

**"We understand that different customers in diverse industries have varied needs, and as such customizability and our core focus on quality are our key incentives"**

The company also takes into account the fact that in many organizations, there might not be technically sound individuals who can analyze the data to its full potential. The team at Reneon Technologies uses data analytics to process the data and presents it in a manner that even a user with very little technical knowledge can understand and take the necessary steps toward reducing energy consumption and improving efficiency.

After delivering the solution, Reneon Technologies does not consider their job done. They offer post-implementation support that many of their contemporaries don't and this hand-holding approach helps their clients maximize the potential of their energy systems.

Reneon Technologies is planning on expanding their product portfolio with energy efficiency being an integral part. The clients will not only get vital analytics and data from the company's monitoring system but also an end-to-end solution that can help boost the overall energy efficiency effort. The company plans to continuously roll out innovative solutions that will help augment their energy management solution while enhancing the overall package that they provide to their clients.

# INTERNATIONAL EVENTS

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## Cleantech Open Global Forum (California)

Reneon Technologies was selected as one of the national finalist of the Global Cleantech Innovation Program for SMEs (GCIP) and was invited to attend the Cleantech Open Global Forum in California. The GCIP Program was organized by Cleantech Open, the world's largest cleantech accelerator, in partnership with the United Nations Industrial Development Organization (UNIDO) and the Global Environment Facility (GEF).





### Asia Beat (Xiamen)

Reneon Technologies was selected as one of 30 companies throughout Asia Pacific to participate in the Asia Beat 2016 event in China. The event was a global gathering which included exclusive forums, conferences, exhibitions as well as a unique networking platform for businesses throughout the Asia region.



### Asia Utility Week (Bangkok)

Reneon Technologies was invited to speak as well as exhibit at the Asian Utility Week Conference. The event is a gathering of more than 2500 energy technology specialists from across Asia and the world with the theme on 'Building the Digital Utility'.





### CEATEC Expo (Tokyo)

Reneon Technologies was selected as one of 10 companies from ASEAN to participate in CEATEC Japan. CEATEC or Cutting-Edge IT & Electronics Comprehensive Exhibition is a premium annual event for IoT & Consumer Products companies to network and assess business opportunities.



### ADB Green Business Forum (Manila)

Reneon Technologies invited for the event as the winner of the Green Business Solution Search. The Green Business Forum brings together experts, business practitioners, and key stakeholders to share knowledge and identify avenues for promoting green business solution in the region.



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