

ISO 9001 Quality

ECONOCO HYBRID INDUSTRIAL MOTOR SUPER ENERGY SAVING

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EXECUTIVE SUMMARY



What we do?

1) Ultra Premium Efficiency IE5 Permanent Magnet Motor couple with Inverter Drive unit.

2) In-house Energy Savings Monitoring with IOT cloud service provider.

3) Provide energy audit and determine Baseline. Provide full retrofit proposal with ROI.

4) Promote Zero Capex Solution with long term Energy Performance Contract (EPC).

Current Status!

1) Upselling high efficiency electric motors for Industrial Applications since incorporating 23 July 2020 coined as "EcoMoto".

2) Form an alliance of business owners servicing HVAC, AHU, Chillers, Cooling Tower, Water Pump whereby the need to replace new motors.

3) Appoint Project Partners and Distributors providing HVAC, AHU, Chillers, Cooling Tower, Water Pump including Energy Savings solutions.

4) Focus on retrofitting the government buildings with long term EPC contract. Mainly the 150 hospitals and 13 State water utilities.

5) Product development from 2.2kW to 1,000kW EcoMoto.

Traction to date:

1) Initial EE Project for 33 sites for TM Data Centre in 2016; Beta Development in 3 core technologies; motor, control drive and monitoring system was develop in Malaysia.

2) Commercialization to produce EcoMoto motor range from 3.7kW to 37kW between 2018 to 2019, and by 2020, the latest 4th generation of EcoMoto covers from 2.2kW to 75kW with dual speed setting and IoT ready.

3) Late 2019, successfully penetrate new sectors in glove manufacturing, commercial buildings and shopping malls.

4) In 2022, retrofitting 600 EcoMoto for 12 government hospitals with a total contract value of \$4 million.

EcoMoto Founder



Lau Chai Kuan, a Mechanical Engineer graduate from University Putra Malaysia started his early career of 22 years as an entrepreneur in the field of import and export with LG Global Building Material (M) Sdn Bhd together with his siblings.

He also holds a Certified Electrical Energy Manager qualification to pursue into energy savings concept at his very early career path and began to develop his interest to seek an ultimatum concept of eco green and sustainable technology.

He then ventured into the Eco Green Technology business in the following years where he first started to explore into the awareness and promotion of the water savings technology. It was back then in 2012, he brought in the 1st Solar Thermal Air Conditioning unit from Germany to Malaysia and couple it with the hot water recovery unit.

He has dedicated himself to be a strong player in Building Energy Efficiency provider and has more than 50 successful implementations on his belt. Over the 15 years span in the Eco Green Technology business, Mr. Lau Chai Kuan has won 2 New Product Award and 1 Green New Product Award in Archidex Exhibition in Kuala Lumpur, Malaysia; including being the pioneer recipient for My Hijau (Green Label) in 2016.





EcoMoto EE Solution ENERGY EFFICIENCY & CONSERVATION











EcoMoto Malaysian Own, Brand Registered in Malaysia, Germany & China.



Our Mission

- To Simplified and Speed Up the Retrofitting of High Efficiency EcoMoto to All Low Efficiency Induction Motors.
- 2. To Incorporate Energy Savings with IoT & IR 4.0 System for Optimum Energy Efficiency, Performance and Sustainability.



Our Vision

Be a Responsible Malaysian Hi-Tech Company to Cooperate with Government to Nurture, Educate and Prepare Our Youth & Graduates to be a Competitive Entrepreneur in IoT 4.0, Energy Efficiency and Environment Sustainability as a whole.







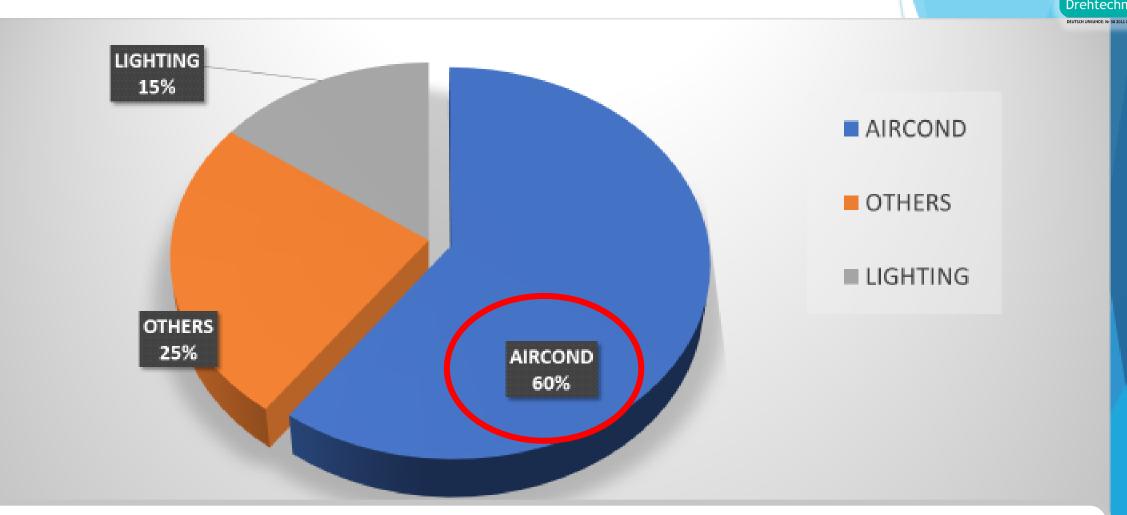


Energy Efficiency has been regarded as the first fuel to <u>combat climate change</u> by the International Energy Agency (IEA).

We can <u>reduce our WASTAGE and increase our EFFICIENCY</u>. We can bring the affordable and **clean energy** for the future generations to come.

Every 1 kWh save, is equivalent to 690g of CO2 reduced to save of earth from global warming.

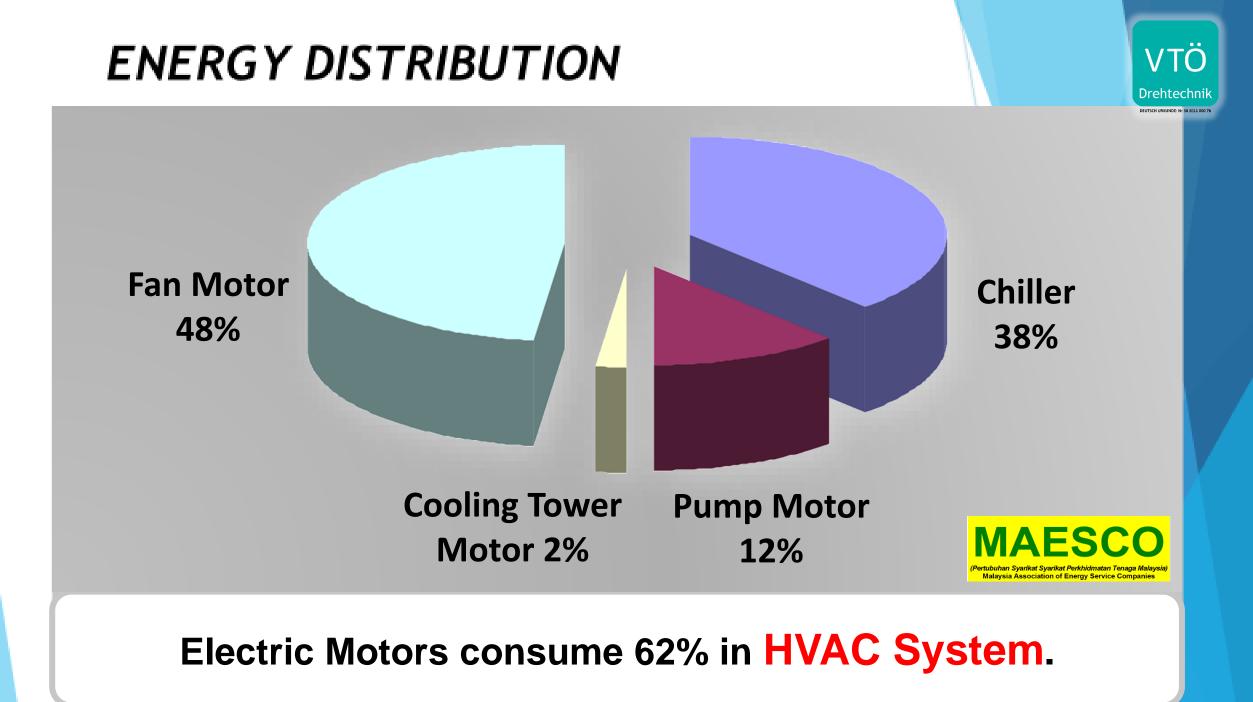
ENERGY DISTRIBUTION



VTÖ

UTSCH URKUNDE: Nr 30 2011 000

HVAC System is the largest energy consumption in both - building and industries.





Electric Motors in HVAC System







AHU

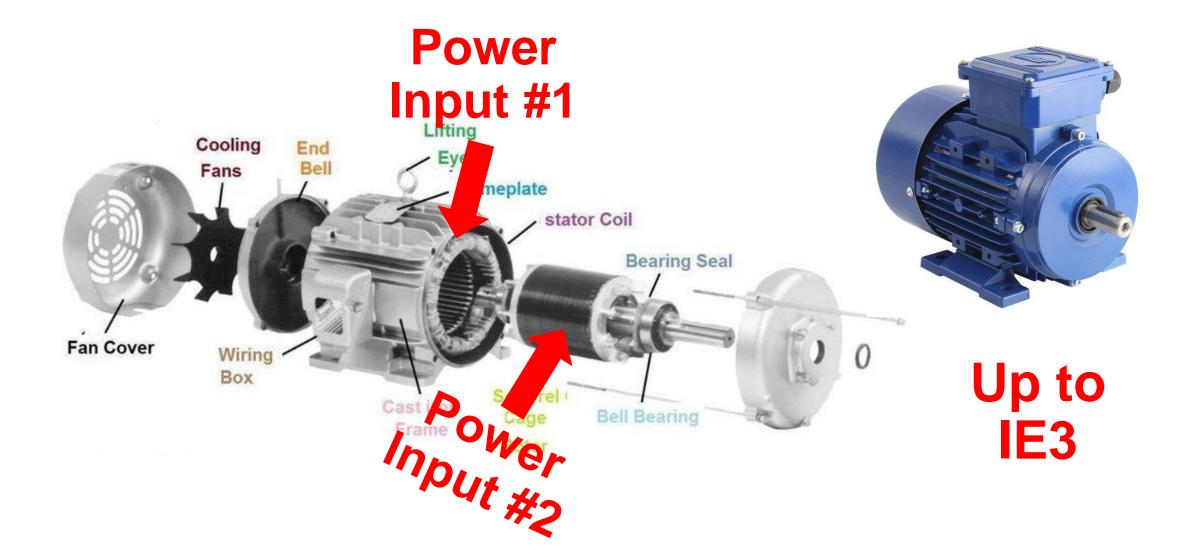
Chilled Water Pump Condenser Water Pump

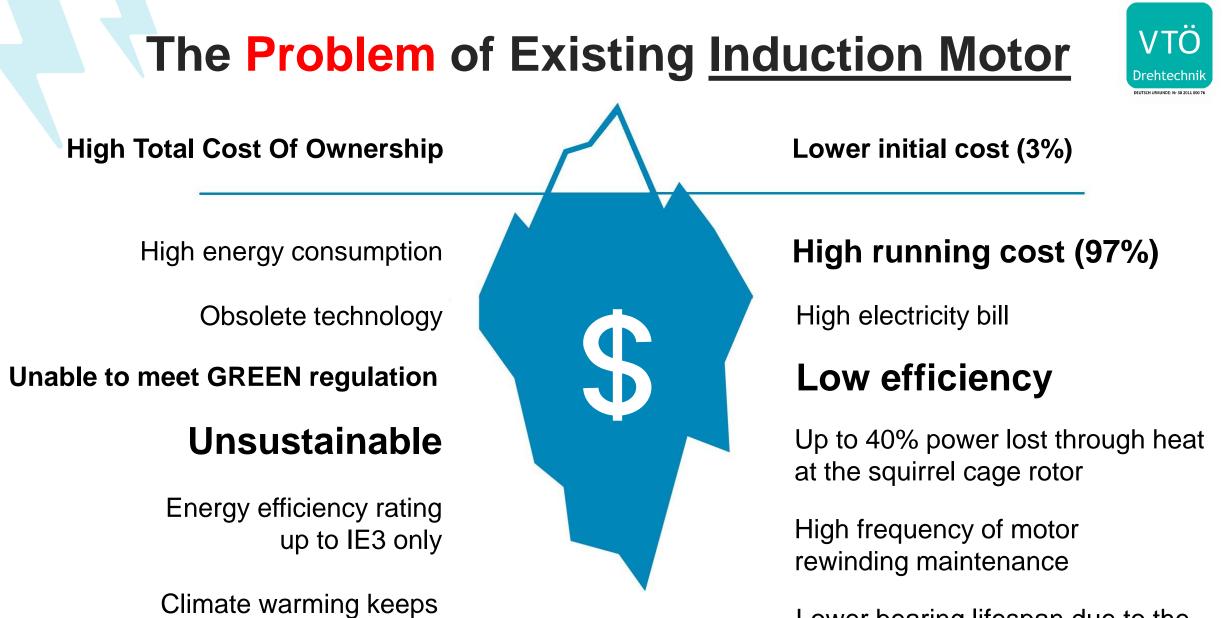
Cooling Tower

All Using Induction Motors!



Typical 3 Phase Induction Motor





on increasing

Lower bearing lifespan due to the excess heat at the rotor

Replacing Old Induction Motors





Accelerating the Global Adoption of ENERGY-EFFICIENT ELECTRIC MOTORS AND MOTOR SYSTEMS

UN Environment - Global Environment Facility | United for Efficiency (U4E)

The Next Global Megatrend

RETROFITTING ENERGY-EFFICIENT ELECTRIC MOTORS FOR BUILDINGS AND INDUSTRIES

FROM 2020 TO 2030

The Solution is EcoMoto

Future outloot

Environmental perspectize

Business stando



- Ultra Premium Efficiency IE5
- IR 4.0 Ready.
- Affordable & cost-effective to own and operate
- Longer Service Life thru Maglev Friction Less Technology and IoT monitoring sensors
- Lower Maintenance Cost.

 In the near future, the existing Induction Motor can be trade in and REFURBISH / UPGRADE to become EcoMoto

Drehtechn

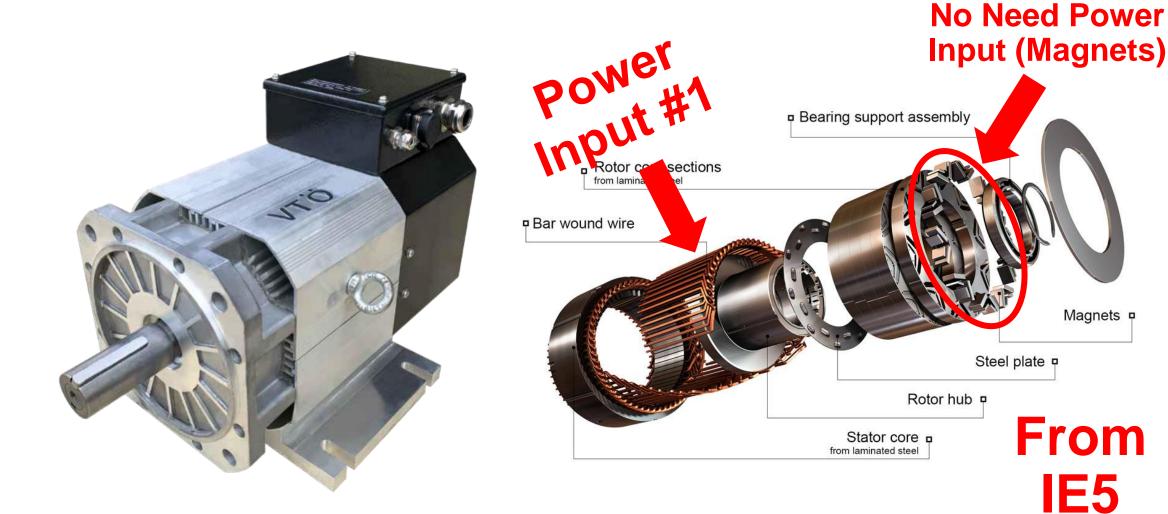
- Up to 50% of the existing parts can be utilized, and the balance can be recycle to become raw materials. Further reduce the CO2.
- Electricity Saving of 20% 50%
- Fast ROI within 18 months
- IoT monitoring to prevent Costly
 Downtime

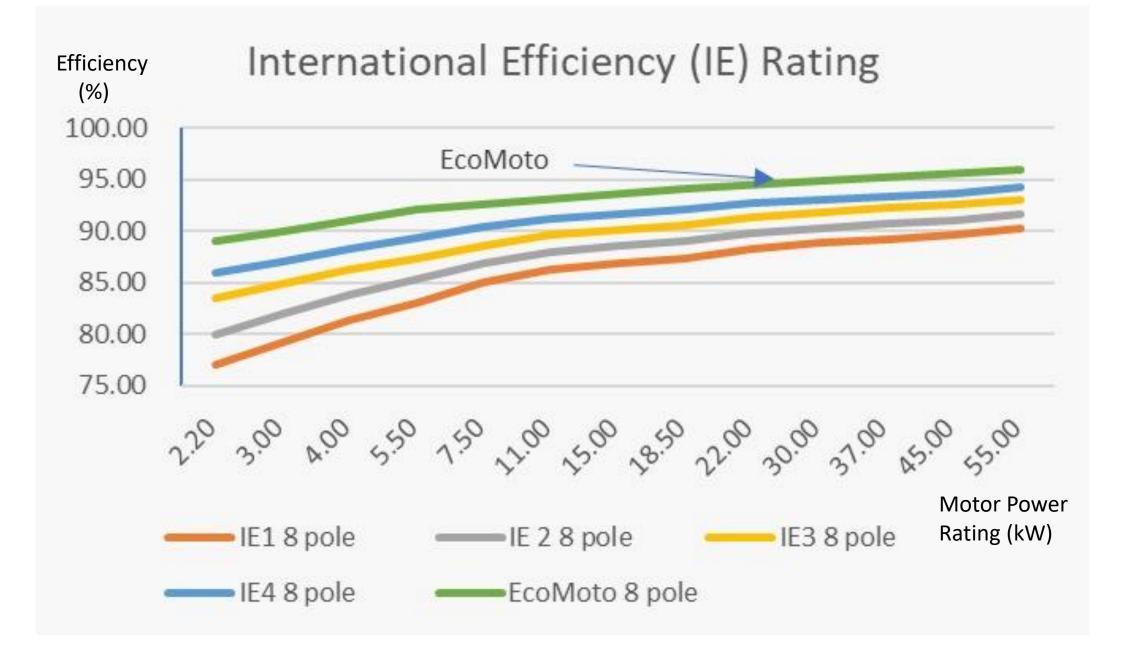
EcoMoto: The <u>Hybrid</u> Magnetic Motor



Magnets P

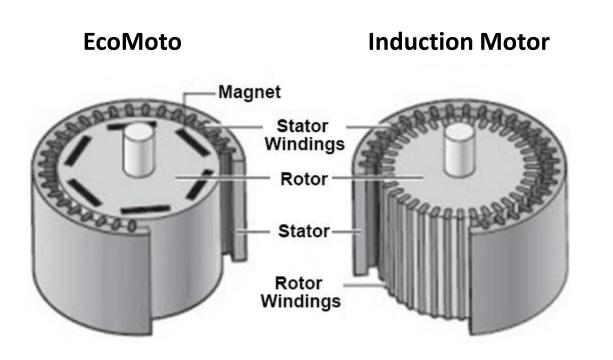
IE5







ADVANTAGES of EcoMoto



- Low power loss at the rotor
- Low temperature rise
- High torque at starting & all RPM
- High efficiency rating from IE5
- Built-in temperature sensors & overheat protection
- High power to weight ratio
- Light, small, space saving & easy handling
- Low friction rotor with Maglev tech.
- Longer service life
- Lower noise & smoother operation
- LOW ELECTRICITY BILL!

What is EcoMoto System?



- 1. <u>EcoMoto</u> is the trademark for our Motor. And represent the TOTAL SOLUTIONS below.
- ✓ High efficiency industrial Permanent Magnet Synchronous Motor (PMSM) IE4 and above.
- ✓ In-build dual speed design to reduce inventory cost and eliminate unpopular / slow moving stock.
- ✓ Design with flexibility, quick & easy to retrofit any existing motor. Plug & play with instant \$\$\$ savings.
- 2. Ecolnverter VFD Drive with Proprietary PMSM Vector Control Algorithm. (Hassle-Free)
- 3. Energy Monitoring System (EMS) IoT Cloud 4.0 technology. (One-Stop Solution)





To Retrofit EcoMoto to Induction Motors



Retrofit AHU Fan with EcoMoto

+ VAV System (Variable Air Volume)



Retrofit Water Pump with EcoMoto

Pump EMS System (Energy Monitoring System)

+



Retrofit Cooling Tower Fan with ECOMOTO + CTFMO System (Cooling Tower Fan

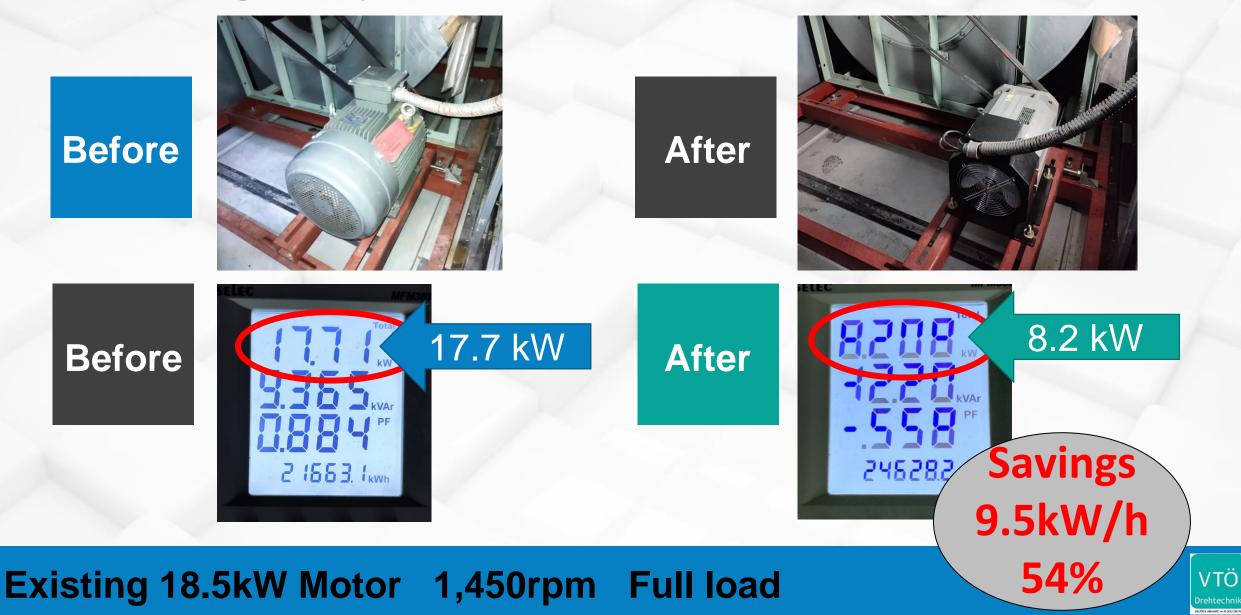
Motor Optimizer)



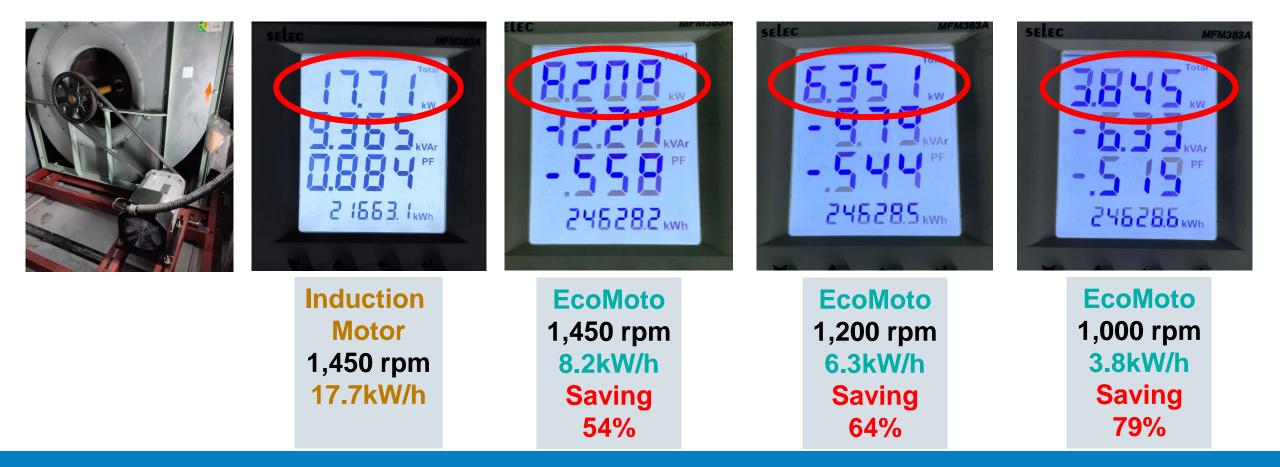


Project Example 1 Shopping Mall in Mont Kiara AHU Fan Motor EcoMoto Plug & Play Saving

AHU Plug & Play 18.5kW EcoMoto

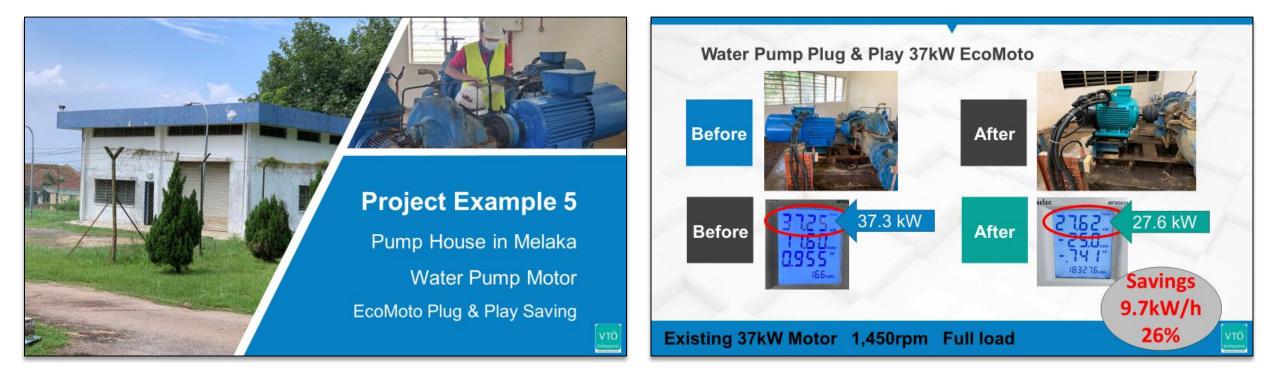


Further Savings with EcoMoto – Variable Speed Control



State Water Utilities Company Water Pump Motor



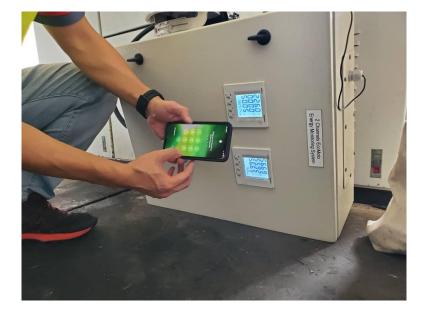


Melaka Water Works on average consumes 100GWh per annum from induction motors. Possible savings of 15GWh per annum equivalent to 10,350 ton CO₂

BEFORE REPLACE MOTOR









AFTER REPLACE MOTOR

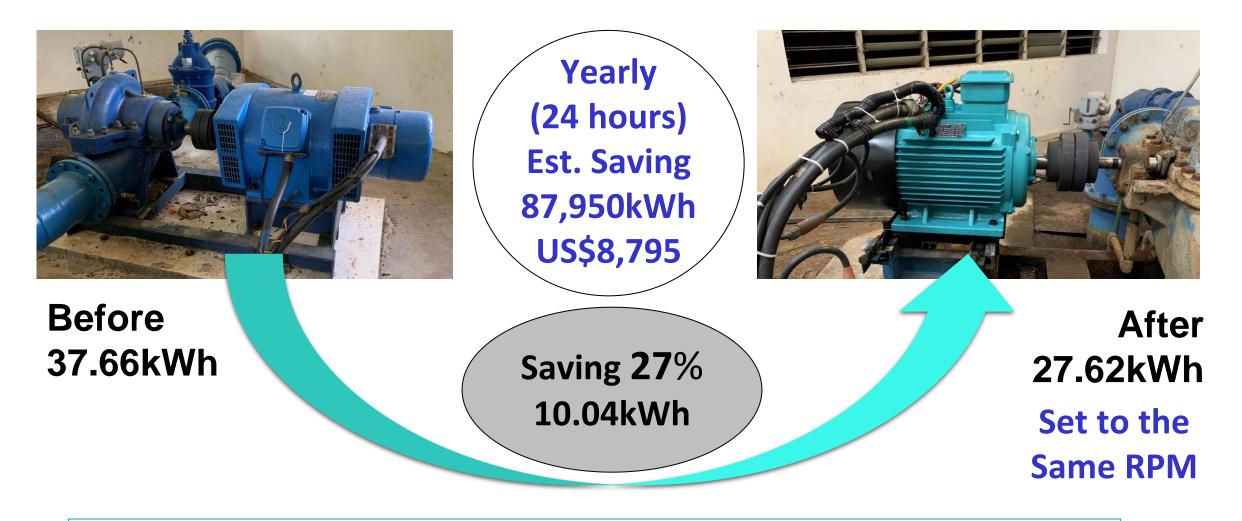








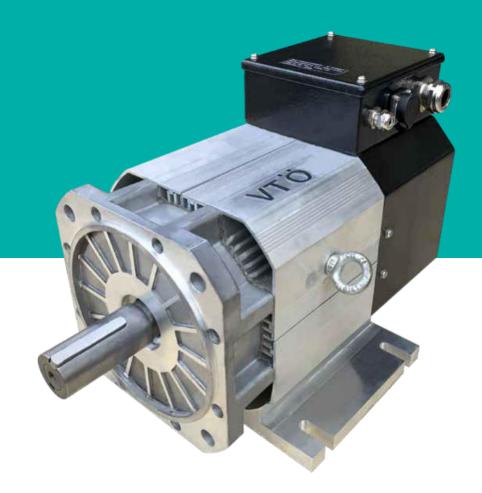
Duyung Pump House: Existing Motor Retrofit to EcoMoto



10.04kWh x US\$0.10 = US\$1.00 savings per hour!



EcoMoto: The Low Hanging Fruit



- Easy & Simple
- Plug & Play follow IEC frame standard
- Wide range of motors (2.2kW to 500kW)
- Immediate savings after retrofit
- Very fast ROI 18 to 24 months or even less
- Automatic variable speed control to optimize performance and further energy saving

LOW TOTAL COST OF OWERSHIP

- EcoEMS Solution IR 4.0 real-time monitoring
- Preventive Maintenance Measure (PMM)
- Fast response team: Local support
- Fast respond time: 24/7
- Hot-Swap: Ready unit for immediate one-to-one replacement









Profibericht - Produkte Teal report - Products			A TÜV	Rheinland*	Attestation		SUD ULC Service			9
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Bezeichnung / Typ-Nr.:	VE0220-DSP							Project handler	Eric Zhu	
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Malaysia Public Works and Minister Of Health



EcoMoto endorsed & approved by Malaysian Government

2. Dimaklumkan, setelah meneliti dokumen dan maklumat semasa sesi pembentangan tersebut, pejabat ini berpendapat produk motor elektrik cekap tenaga EcoMoto yang mempunyai kelas *International Standard* IE4 dan ke atas adalah mematuhi spesifikasi Jabatan Kerja Raya dan boleh digunakan bagi projek-projek baharu dan kerja-kerja *retrofitting* di bawah kendalian JKR, berdasarkan kepada kaedah perolehan dan peraturan semasa yang berkuatkuasa.

Sekian, terima kasih.

"WAWASAN KEMAKMURAN BERSAMA 2030"





telah dipasang di AHU wad 6E dan *chilled water pump* no.3 di Hospital Serdang untuk pelaksanaan kajian POC pada awal bulan Januari 2022. Pemantauan bagi sistem tersebut telah dibuat bermula pada 11 Januari 2022 sehingga 18 Februari 2022. Untuk makluman pihak Tuan, Bahagian ini juga telah menerima laporan pelaksanaan POC daripada pihak konsesi sebagai pihak yang bertanggungjawab melaksanakan penyelenggaraan sistem sediaada.

3. Melalui kajian POC yang dilaksanakan serta maklumbalas yang telah diterima, adalah didapati bahawa kajian POC sistem yang telah dipasang telah berjaya mengurangkan penggunaan tenaga elektrik berbanding sistem motor yang digunakan sebelum ini dan sistem motor cekap elektrik yang digunakan semasa POC telah beroperasi pada tahap yang memuaskan. Tiada sebarang isu yang menjejaskan perkhidmatan hospital dilaporkan sepanjang pelaksanan POC ini.

4. Untuk makluman pihak Tuan, Kementerian Kesihatan Malaysia adalah tidak terikat dengan sebarang perjanjian untuk melantik pihak Tuan ke atas manfaat hasil kajian POC ini. Surat ini juga tidak boleh digunakan bagi tujuan pemasaran dan bukan untuk meluluskan penggunaan produk.

'Sila catatkan rujukan surat ini apabila menjawab'



Timbalan Pengarah Kanan (Perkhidmatan) Bahagian Perkhidmatan Kejuruteraan Kementerian Kesihatan Malaysia

Ketua Sektor (Program Lestari) Bahagian Perkhidmatan Kejuruteraan Kementerian Kesihatan Malaysia

Pengarah Hospital Serdang

Pengarah Jabatan Kesihatan Negeri Selangor (u.p: Unit Kejuruteraan Operasi Hospital)

Ketua Pegawai Operasi Radicare (M) Sdn. Bhd.

Mukasurat 2 / 2

Global Electric Motor Market



APAC

2030

Market Size

\$195.2

billion

2019

Market Size

\$118.2

billion

Fastest-Growing Market By Region (2020-2030) Largest Market By Region (2019)

Market

Growth Rate

(2020-2030)

4.8%

LOCAL MARKET POTENTIAL

	Sector	Application	(1)	(2) Av.	(3) Av.	(4) No.	YEAR 2022	(5) No.	YEAR 2023	(6) No.	YEAR 2024	(7) No.	YEAR 2025	(8) No.	YEAR 2026	Total
			Total	No.	Price	of	Revenue	of	Revenue	of	Revenue	of	Revenue	of	Revenue	Clients
			Clients	Motors	(RM) Per	Clients	(2x3x4)	Clients	(2x3x5)	Clients	(2x3x6)	Clients	(2x3x7)	Clients	(2x3x8)	After 5
				Per Site	Motor*											Years
	(A) Private Sectors				USD		USD		USD		USD		USD		USD	
1	Shopping Malls	HVAC	600	50	4,000	1	200,000	10	2,000,000	50	10,000,000	100	20,000,000	200	40,000,000	361
2	Commercial Buildings	HVAC	500	30	4,000	0	-	1	120,000	10	1,200,000	50	6,000,000	100	12,000,000	161
3	Private Hospitals	HVAC	240	30	4,000	0	-	1	120,000	10	1,200,000	50	6,000,000	100	12,000,000	161
4	Hotel (5 Stars)	HVAC	250	20	4,000	0	-	1	80,000	10	800,000	50	4,000,000	100	8,000,000	161
5	Industry Oil/Fats	Cooling	28	100	4,000	0	-	1	400,000	5	2,000,000	10	4,000,000	10	4,000,000	26
6	Electronic And Electrical	Cooling, Freezer	1695	20	4,000	0	-	1	80,000	10	800,000	50	4,000,000	100	8,000,000	161
7	Glove Factory	HVAC	200	100	4,000	1	400,000	10	4,000,000	30	12,000,000	60	24,000,000	90	36,000,000	191
8	Pharma Plant	HVAC	265	50	4,000	0	-	1	200,000	10	2,000,000	50	10,000,000	100	20,000,000	161
9	Food Industry	Cooling	2000	50	4,000	0	-	1	200,000	10	2,000,000	50	10,000,000	100	20,000,000	161
10	Medical Equipment	HVAC	179	50	4,000	0	-	1	200,000	10	2,000,000	50	10,000,000	100	20,000,000	161
11	Oleo Chemical	Cooling	18	100	4,000	0	-	1	400,000	5	2,000,000	5	2,000,000	5	2,000,000	16
12	Private Universities	HVAC	47	20	4,000	0	-	1	80,000	10	800,000	15	1,200,000	15	1,200,000	41
	TOTAL		6022				600,000		7,880,000		36,800,000		101,200,000		183,200,000	1762
В	Public Sector															
1	Hospitals	HVAC	150	50	4,000	12	2,400,000	50	10,000,000	88	17,600,000	0	-	0	-	150
2	Universities	HVAC	30	20	4,000	0	-	1	80,000	5	400,000	10	800,000	10	800,000	26
3	Airports	HVAC	39	30	4,000	0	-	1	120,000	10	1,200,000	28	3,360,000	0	-	39
4	Water Works**	Pumps	12	300	8,000	0	-	2	4,800,000	5	12,000,000	6	14,400,000	0	-	13
5	Govert. Buildings	HVAC	200	30	4,000	1	120,000	10	1,200,000	50	6,000,000	100	12,000,000	39	4,680,000	200
6	Town Councils	HVAC	155	20	4,000	1	80,000	10	800,000	50	4,000,000	94	7,520,000	0	-	155
	TOTAL		586				2,600,000		17,000,000		41,200,000		38,080,000		5,480,000	583
	GRAND TOTAL (USD)		6608				3,200,000		24,880,000		78,000,000		139,280,000		188,680,000	2345

* Average price per motor is inclusive of motor, drive & energy monitoring system. Supply and complete with installation. USD4,000 per set

** Water works' pump motors are larger in sizes and the average price per set is USD8,000.

OVERSEA MARKET POTENTIAL

	COUNTRY	POTENTIAL SALE (Units of Motor)	TARGET OUTRIGHT SALE QUANTITY (Yr 2023)	YEAR 2023 REVENUE (USD)	TARGET OUTRIGHT SALE QUANTITY (Yr 2024)	YEAR 2024 REVENUE (USD)	TARGET OUTRIGHT SALE QUANTITY (Yr2025)	YEAR 2025 REVENUE (USD)	TARGET OUTRIGHT SALE QUANTITY (Yr 2026)	YEAR 2026 REVENUE (USD)	Total Motor in 4 Years
1	Singapore	40,000	500	2,000,000	5,000	20,000,000	20,000	80,000,000	14,500	58,000,000	40,000
2	Thailand	90,000	500	2,000,000	5,000	20,000,000	20,000	80,000,000	30,000	120,000,000	55,500
3	Philippines	70,000	500	2,000,000	5,000	20,000,000	20,000	80,000,000	30,000	120,000,000	55,500
4	Vietnam	70,000	500	2,000,000	5,000	20,000,000	20,000	80,000,000	30,000	120,000,000	55,500
5	Indonesia	800,000	500	2,000,000	5,000	20,000,000	20,000	80,000,000	30,000	120,000,000	55,500
8	Asia & Oceania		0	0	2,500	10,000,000	25,000	100,000,000	100,000	400,000,000	127,500
9	Europe		0	0	2,500	10,000,000	25,000	100,000,000	100,000	400,000,000	127,500
10	Latin America & Africa		0	0	0	0	2,500	10,000,000	100,000	400,000,000	102,500
	Total Motor Qty (unit)		2500		30,000		152,500		434,500		619,500
	TOTAL REVENUE (USD)			10,000,000		120,000,000		610,000,000		1,738,000,000	2,478,000,000

* Average price per motor is inclusive of motor, drive & energy monitoring system. Supply and complete with installation. USD4,000 per set

Global Electric Motor Market



ЕСОМОТО

Ultimate target to achieve 25% Market Share in 2030 for ASEAN market, which is US\$ 5 billion. (The Top 5 brands in Motors) Total: Over 1m units of EcoMoto sold from 2021 to 2030.

Low & Medium voltage category: 2.2kW to 1000kW power rating Total: 30 models only

EcoMoto Savings in 2030: 30TWh and 20MTon CO₂ Over US\$6 billion in bill savings



\$20 Million Funding Requirement







More than Thousand of Installations in Malaysia.









Save more than 30GWh & 20kTon CO₂ per year









FAN ROTATION



Target: Savings of 300GWh & 200kTon CO₂ in 2023!









TOTAL SOLUTION PROVIDER FOR ENERGY EFFICIENCY & CONSERVATION



Malaysian Own, Brand Registered in Malaysia, Germany & China.



S U M M A R Y

THE ANSWER TO YOUR HIGH ELECTRICITY BILL

- ✓ 8 Years Of R&D
- ✓ Own Invention (Patentable)
- ✓ Unique (Revolutionary Invention)
- ✓ Green Technology
- ✓ TUV Certified; CE, CE & EE
- ✓ Zero Capex Solution On Energy Savings
- ✓ Eligible for Pioneer Status (0% Tax)
- ✓ Proven Since 2016 (Market Ready)
- ✓ Large Target Market Size (Retrofit)
- ✓ The Next Global Megatrend (2020-2030)
- ✓ High Sales Turnover Per Site
- ✓ Continuous Stream Of Revenue (EPC)
- ✓ Lower Inventory Cost (Dual Speed)
- ✓ Affordable & Cost-effective (Fast ROI)
- ✓ Blue Ocean Market