



*Innovations For Lives and Environment*

## COMPANY PROFILE

# Company Profile



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## **J-7 ENGINEERING COMPANY LIMITED.**

The company enjoys a reputation of high quality for delivering efficient water heating solutions in various industry.

### **Experience and Capability**

With over 20 years experience our Water heating Solutions have delivered many projects on a local basis, on time and on budget. Since 2000, the company is in a position of leader in the design and manufacture of energy saving technology in Thailand, branding "**Ecotech**". We continue to invest and grow rapidly, building on the strong growth momentum with proven track record across various industries, which includes both business-to-business and business-to-consumer clients.

Our Client base extends to all 5-star Hotels, Resort & Spa, Hospitals, High-rise Condominiums, Process Industry, etc.

### **Global Reach**

From our distributor built premises, we are in a position to delivery these products and services on a global basis.

### **Engineered with Quality**

Typical Water heating Solutions includes but not limited to:

- Overall Project Management Design and Specification
- Procurement of Equipment and System Integration
- Installation and Commissioning on site
- Documentation
- Training and Support
- Preventive maintenance and Services



Build quality is of paramount importance subsequently the company carefully operates a quality assurance system.

# OUR CORE VALUES



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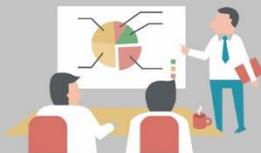
**RELIABILITY**



**COST EFFICIENCY**



**QUALITY :  
Engineering Designs**



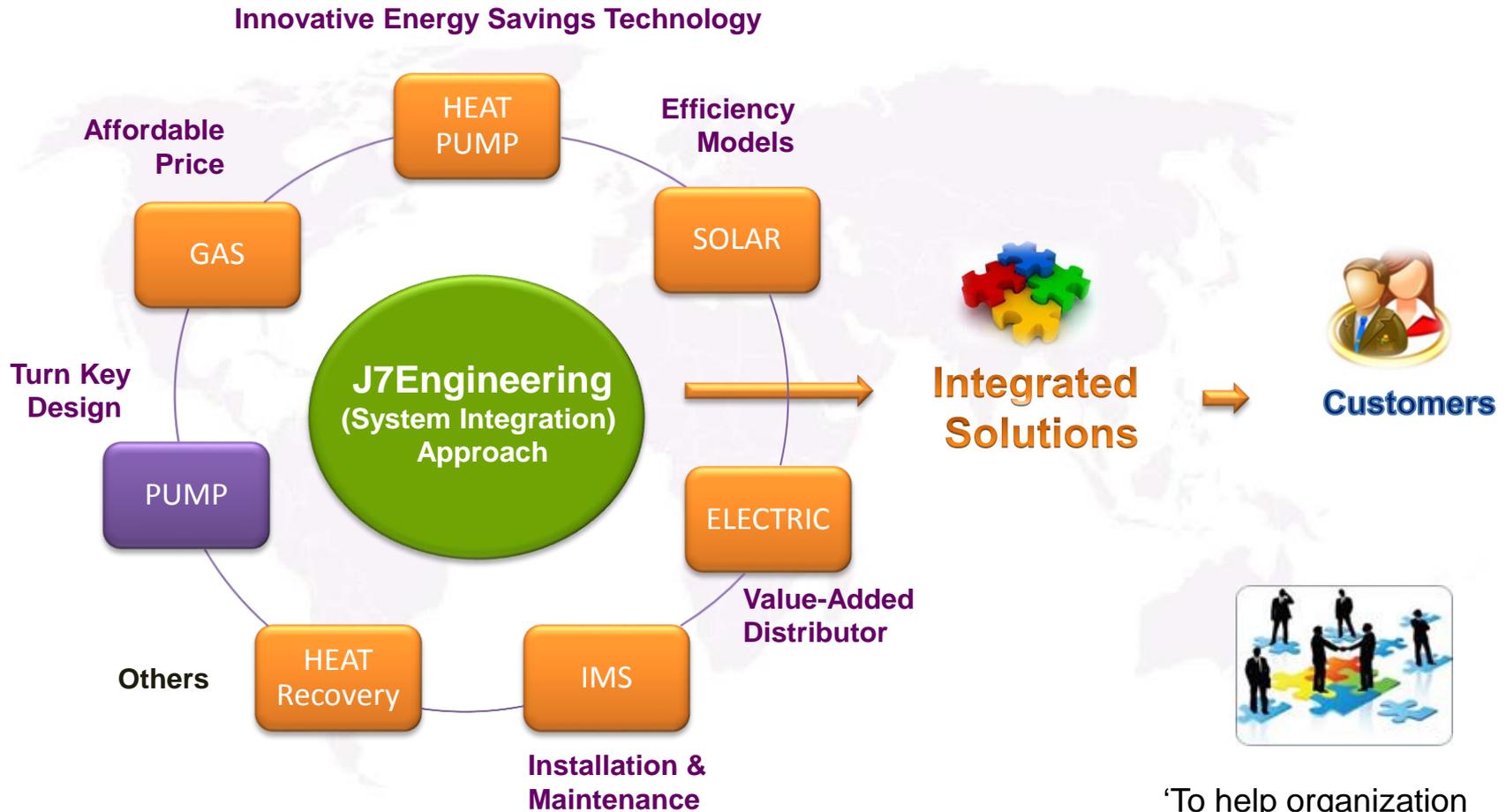
**CUSTOMERS  
ORIENTED**



# OUR INTEGRATION MODEL



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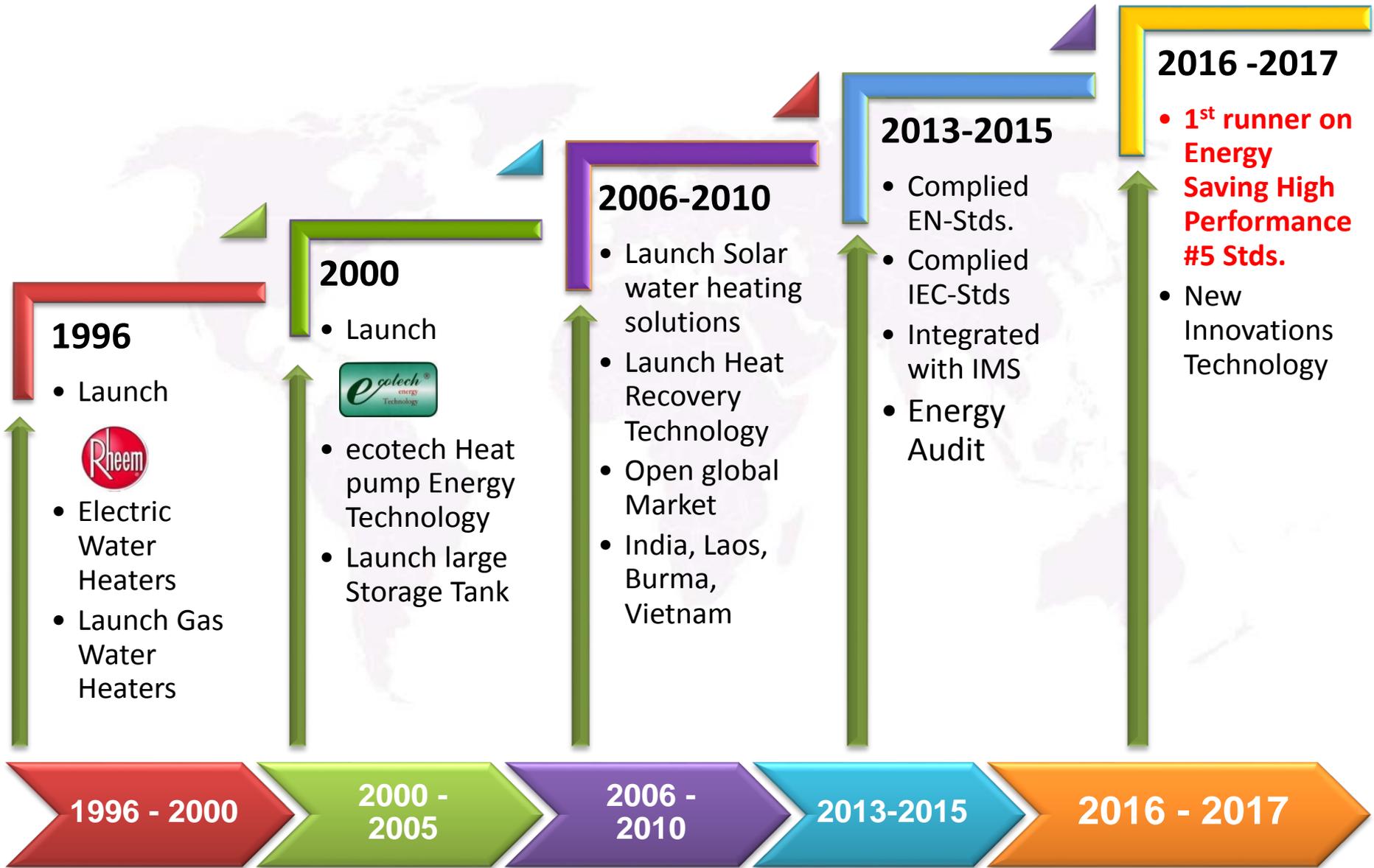
'To help organization success through energy technology'.



# Product Road Map & Strategic Initiative



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# PROJECT CASE STUDY: SOFITEL CENTRAL HUA-HIN

SOFITEL  
LUXURY HOTELS



## Sofitel Central Hua-Hin Report & Spa

Key Room: 248 keys

Old System: Steam Boiler

New Installation: 2 Heat Pump (36.0 kw)

WHP100-SS-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 3xx,xxx Baht/ year

Pay Back: 3.10 year

CENTARA  
GRAND

Extension to CENTARA GRAND HOTELS



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# PROJECT CASE STUDY: SOFITEL CENTARA GRAND HOTEL



## Sofitel Centara Grand Hotels & Resorts

Key Room: 248 keys

Old System: Steam Boiler

Purpose: To preheated steam boiler @ 70-60°C

New Installation: 2 Heat Pump (36.0 kw)

WHP100-EG-B-R134a

Energy Saving: 1,xxx,xxx Baht/ year

Pay Back: 1.25 year

## Extension to CENTARA GRAND HOTELS



CENTARA Grand MAESOD  
CENTRA ASHLEE PATHONG  
CENTRAL KARON BEACH PHUKET  
CENTRAL JIVA KATA BEACH PHUKET



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# PROJECT CASE STUDY: NOVOTEL PLOENCHIT HOTEL



**Novotel Bangkok Ploenchit Sukhumvit**  
Bangkok Thailand



## NOVOTEL PLOENCHIT HOTEL

Key Room: 380 keys

Old System: Steam Boiler

New Installation: 3 Heat Pump (72.0 kw)  
WHP180-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 2,xxx,xxx Baht/year

Pay Back: 1.15 year



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# PROJECT CASE STUDY: NOVOTEL DAHLIA HOTEL



## NOVOTEL DAHLIA HOTEL- PHUKET

Key Room: 215 keys

Old System: Steam Boiler

New Installation: 4 Heat Pump (28.7kw)

WHP080-EG-B-R134a

WHP100-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 2,xxx,xxx Baht/year

Pay Back: 1.15 year

# PROJECT CASE STUDY: NOVOTEL SI-LOM HOTEL



## NOVOTEL SI-LOM HOTEL

Key Room: 220 keys

Old System: Steam Boiler

New Installation: 4 Heat Pump (28.7kw)

WHP080-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 2,xxx,xxx Baht/year

Pay Back: 1.15 year

## Extension to NOVOTEL CHAIN in INDIA



180 keys NOVOTEL HOTEL, SIPCOT INDIA

180 keys NOVOTEL HOTEL, CHENNAI INDIA



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# PROJECT CASE STUDY: IBIS HOTELS



## Extension to IBIS CHAIN in INDIA

146 keys IBIS HOTEL, JAIPUR INDIA

217 keys IBIS HOTEL, GURGAON INDIA

## IBIS KATA HOTEL -PHUKET

Key Room: 258 keys

Old System: Steam Boiler

New Installation: 2 Heat Pump (28.7kw)

WHP080-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 1,xxx,xxx Baht/year

Pay Back: 2.15 year



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# PROJECT CASE STUDY: BEST WESTERN HOTELS



## BEST WESTERN SUKHUMVIT20

Key Room: 80 keys

Old System: Steam Boiler

New Installation: 2 Heat Pump (58.9kw)

WHP120-SS-B-R134a

Continuing PH2: 2 Heat Pump (18.0kW)

WHP040-SS-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 5xx,xxx Baht/year

Pay Back: 2.15 year



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# PROJECT CASE STUDY: IHG CHAIN HOTELS



## HOLIDAY INN -BANGKOK

Key Room: 234 +72 keys

Old System: Steam Boiler

New Installation: 2 Heat Pump (72kw)

WHP180-EG-B-R134a

Continuing PH2: 2 Heat Pump (28.7kW)

WHP080-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 1,xxx,xxx Baht/year

Pay Back: 2.73 year

## Extension to IHG CHAIN, THAILAND



INTERCONTINENTAL- HUA HIN

CROWN PLAZA -KARON



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# PROJECT CASE STUDY: IHG CHAIN HOTELS



## INTERCONTINENTAL- HUA HIN

Key Room: 150keys

New Installation: 4 Heat Pump (36kw)

WHP100-EG-B-R134a



## Extension to IHG CHAIN, THAILAND



INTERCONTINENTAL- HUA HIN

CROWN PLAZA -KARON



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# PROJECT CASE STUDY: St.Regis Fl.42-45 (Penthouse)



**ST. REGIS**  
*Hotels & Resorts*



ST.REGIS BANGKOK

St.Regis (Penthouse fl.42-45)

Key Room: 16 keys

New Installation: 3 Heat Pump (8.25 kw)

WHP-20



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# PROJECT CASE STUDY: MIKE GROUP HOTEL PATTAYA



## Mike Orchid Well Living Hotel - Pattaya

Key Room:	190 keys
Old System:	Steam Boiler (oil)
New Installation:	2 Heat Pump (59.0 kw) WHP120-SS-B-R22
Cold Air Benefit:	Corridor, Chiller Room
Energy Saving:	4xx,xxx Baht/ year
Pay Back:	3.16 year



### Extension to all MIKE GROUP HOTELS

112 keys MIKE HOTEL

190 keys Well Living HOTEL

80 keys MIKE BEACH RESORT

[MIKE BEACH RESORT PATTAYA](#)



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# PROJECT CASE STUDY: EASTINY GROUP HOTEL PATTAYA



## Eastiny Hotel – Pattaya

Key Room: 99 keys

Old System: Steam Boiler (oil)

New Installation: 1 Heat Pump (18 kw)

WHP040-SS-B-R22

Energy Saving: 6xx,xxx Baht/ year

Pay Back: 2.8 year



## Extension to all EASTINY GROUP HOTELS

99 keys Eastiny Soi7

HOTEL

87 keys Eastiny Residence

84 keys Eastiny Resort HOTEL

74 keys Eastiny Inn HOTEL



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# PROJECT CASE STUDY: VERANDA RESORT & SPA



## Veranda Report & Spa Hua-Hin Cha Am

Key Room: 94 keys

Old System: -

New Installation: 2 Heat Pump (17.0 kw)  
WHP040-SS-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 3xx,xxx Baht/ year

Pay Back: 2.04 year

### Extension to CHA AM HOTELS

The SUN HOTEL

The CITY Beach Hua Hin HOTEL

THARA MANTHA Hua Hin HOTEL

Amari Hua Hin HOTEL



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# PROJECT CASE STUDY: THARA PATHONG BEACH RESORT



## Thara Pathong Beach - Phuket

Key Room: 190 keys

Old System: Boiler (Electric&Solar)

New Installation: 2 Heat Pump (28.7 kw)

WHP080-SS-P-R22

Energy Saving: 1xx,xxx Baht/ year

Pay Back: 4.6 year



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# PROJECT CASE STUDY: THE ROYAL PARADISE



*The Royal Paradise Hotel -*



## **The Royal Paradise Hotel**

Key Room: 198 keys

Old System: Steam Boiler (Oil)

New Installation: 2 Heat Pump (59 kw)  
WHP120-SS-B-R22

Continuing PH(II): 2 Heat Pump (59 kw)

Energy Saving: 5xx,xxx Baht/ year

Pay Back: 2.46 year



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# PROJECT CASE STUDY: PHUKET ORCHID RESORT



## Phuket Orchid Resort & Spa

Key Room: 333 keys

Old System: Boiler (Electric&Solar)

New Installation: 2 Heat Pump (59 kw)  
WHP120-SS-B-R22

Continuing PH(II): 2 Heat Pump (59 kw)

Energy Saving: 6xx,xxx Baht/ year

Pay Back: 0.94year



Extension to 5 hotels all KATA GROUP Resort Thailand.

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# PROJECT CASE STUDY: MANDARIN ORIENTAL BANGKOK



## MANDARIN ORIENTAL BANGKOK

Key Room:	390 keys
Old System:	Boiler (Electric&Solar)
New Installation:	5 Heat Pump (36 kw) WHP100-EG-B-R22
Energy Saving:	2,xxx,xxx Baht/ year
Pay Back:	0.94years



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# PROJECT CASE STUDY: MOVENPICK Hotels & Resorts



Passionately Swiss.™



## MOVENPICK Hotels & Resorts

Key Room:	245 keys
Old System:	Boiler (Electric&Solar)
New Installation:	4 Heat Pump (28.7 kw) WHP080-EG-B-R22
Energy Saving:	1,xxx,xxx Baht/ year
Pay Back:	1.51years



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# PROJECT CASE STUDY: THE PALLADIUM



## THE PALLADIUM WORLD SHOPPING

Key Room: 700 keys

Old System: -

New Installation: 4 Heat Pump (86 kw)

WHP190-EG-B-R22

Storage Tank 20Q x2

Energy Saving: 3,xxx,xxx Baht/ year

Pay Back: 2.35 years



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# PROJECT CASE STUDY: NIGH SAFARI



## Chiang Mai Night Safari

Hot water for 3 kitchen

New Installation: 1 Heat Pump (11.5 kw)

WHP-030-SS-B-R134a

Rheem storage gas water heater G76-200



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# PROJECT CASE STUDY: University



มหาวิทยาลัยมหาสารคาม  
Mahasarakham University



อาคารเรียนแพทย์ มหาวิทยาลัยมหาสารคาม

New Installation : 4 Heat Pump (36 kw)

WHP-100-EG-SS-B-R134a



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# PROJECT CASE STUDY: CP TRAINING CENTRE



Solar Collector 104 panels

WHP060-SS-B-R134a = 2 sets.

WHP-040-SS-B-R134a= 2 sets.

Pool heat pump, PHP-160-SL = 2sets.



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# PROJECT CASE STUDY: CENTERPOINT YANON



## CENTER POINT YANGON

Key Room: 300keys

New Installation: 3 Heat Pump (72kw)

WHP180-EG-B-R134a



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# PROJECT CASE STUDY: KOHLER



HEAT PUMP, WHP-120 = 3 sets  
Open tank 5,000 Litre = 3 sets



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# PROJECT CASE STUDY: CHOK-SET-THEE HOTEL



CHOK SET-THEE SERVICE APRT.

Key Rooms: 140 Keys

Old System:

New Installation: HYBRID SOLAR +  
HEAT PUMP + HR

Energy Saving: 4xx,xxx Baht/ year

Pay Back: 2.73 years



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# PROJECT CASE STUDY: WEST SAND HOTEL



## WEST SAND HOTEL

Key Rooms: 145 Keys

Old System: -

New Installation: HYBRID SOLAR +  
HEAT PUMP + HR

Energy Saving: 1,xxx,xxx Baht/ year

Pay Back: 2.31years



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# PROJECT CASE STUDY: AMRI VORGE BRABI HOTEL

**AMARI**  
VOGUE RESORT



## AMRI VORGE BRABI HOTEL

Key Rooms: 100 Keys

Old System: -

New Installation: HYBRID SOLAR +  
HEAT PUMP + HR

Energy Saving: 3xx,xxx Baht/ year

Pay Back: 3.6 years



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# PROJECT CASE STUDY: JIVA KATA RESORT HOTEL

**CENTARA**  
GRAND



## JIVA KATA RESORT(CENTARA) HOTEL

Key Rooms: 100 Keys

Old System: -

New Installation: HYBRID SOLAR +  
HEAT PUMP + HR

Energy Saving: 1,xxx,xxx Baht/ year

Pay Back: 2.31years



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# PROJECT CASE STUDY: SCANDINAVIAN VILLAGE



## SCANDINAVIAN VILLAGE

Key Rooms: 102 Keys

Old System: ELECTRIC

New Installation: HYBRID SOLAR +  
HEAT PUMP + HR

Energy Saving: 8xx,xxx Baht/ year

Pay Back: 2.58years

Continuing Site installation periods with

1. Waste Heat Recovery from Chiller 100 Ton
2. Chiller Heat Pump 10 Ton



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# PROJECT CASE STUDY: AGC FLAT GLASS INDUSTRY



## AGC FLAT GLASS (THAILAND)

HW Demand: 3,000L/hr

Old System: Steam Boiler

New Installation: 4 Heat Pump (36kw)

WHP100-SS-B-R134a

Energy Saving: 1,xxx,xxx Baht/ year

Pay Back: 2.31years



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# PROJECT CASE STUDY: CP ROUP – FOOD INDUSTRY



## C.P. RETAILING & MARKETING Co.,LTD.

HW Demand: 160L/hr

Old System: Air-Cooled Chiller

New Installation: 2 Heat Recovery  
(134kw)

Energy Saving: 1xx,xxx Baht/ year

Pay Back: 0.47years



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# PROJECT CASE STUDY: HUA CHIEW HOSPITAL



## HUA CHIEW HOSPITAL.

HW Demand: 30,000L/day

Old System: Boiler (electricity)

New Installation: 2 Heat Pumps (36kw)  
WHP100-SS-B-R134a

Energy Saving: 1,xxx,xxx Baht/ year

Pay Back: 1.85years



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# PROJECT CASE STUDY: = URBAN HOSPITAL



โรงพยาบาลชนบท

Old System: ELECTRIC

New Installation: HYBRID SOLAR + HEAT RECOVERY (CDU)

1,xxx,xxx Baht. (ได้รับเงินสนับสนุนจาก พพ.)



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# PROJECT CASE STUDY: = รพ.สนามชัยเขต



New Installation: HYBRID SOLAR + HEAT RECOVERY (CDU)

1xHWST-5,000L

(ได้รับเงินสนับสนุนจาก พพ.)



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# PROJECT CASE STUDY: HOSPITALS



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# PROJECT CASE STUDY: HOSPITALS



HEAT PUMPS – HIGH TEMP.

WHP120-SS-B-R134a 2 sets

HWST-3000T 2 sets

Rheem G82-156 1set



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# PROJECT CASE STUDY: = GOLF & SPORT CLUB



## Thana City Golf

New Installation: 2x HEAT PUMP (36 kW.)

## SINGHA PARK, Khonkaen

New Installation: 2xHEAT PUMP (18 kW.)

## RIVERDALE GOLF CLUB

New Installation: 2xHEAT PUMP (18 kW.)

## Pattana Golf

New Installation: 2xHEAT PUMP (18 kW.)

## Pattaya Country Club

New Installation: 2xHEAT PUMP (28.7 kW.)



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# PROJECT CASE STUDY: The Lord Palace Hotel & Spa



## The Lord Palace Hotel & Spa

New Installation: 2 Heat Pump (470 kw)

WHP-1000-EG-B-R134a



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# PROJECT CASE STUDY: POOL HEATPUMPS

Four Season Chiang Mai



Amanburi phuket



Four Season Samui



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# PROJECT CASE STUDY: POOL HEATPUMPS

The Address Asoke (40C)



Condo Floor 42 St.Regis



Abstract Phaholyothin



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# PROJECT CASE STUDY: POOL HEATPUMPS



  
**FOUR SEASONS**  
TENTED CAMP  
*Golden Triangle, Thailand*

Pool heat pump

PHP-100-SL

Rheem water heater 613315

Ecotech thermal storage tank  
EGV-430ST



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# PROJECT CASE STUDY: OFFSHORE- OVERSEA



## Formule1 Hotel – ACCOR Group

Key Room: 135 keys  
Old System: Steam Boiler(Diesel)  
New Installation: 2 Heat Pump (28.7 kw)  
WHP080-EG-B-R134a  
Cold Air Benefit: Corridor, Chiller Room  
Energy Saving: 7xx,xxx Rupee/ year  
Pay Back: 1.71 year



## Extension to 3 hotels all FORMULE 1 HOTEL, INDIA



106 keys FORMULE 1 HOTEL, PUNE INDIA



135 keys FORMULE 1 HOTEL, GREATER NOIDA INDIA



132 keys FORMULE 1 HOTEL, AHMEDABAD INDIA



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# PROJECT CASE STUDY: OFFSHORE- OVERSEA



## NOVOTEL Hotel – ACCOR Group

Key Room: 180 keys

Old System: Steam Boiler(Diesel)

New Installation: 3 Heat Pump (36.0 kw)

WHP100-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 1,xxx,xxx Rupee/ year

Pay Back: 0.58 year

## Extension to NOVOTEL HOTEL, CHENNAI INDIA



180 keys NOVOTEL HOTEL, SIPCOT INDIA



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# PROJECT CASE STUDY: OFFSHORE- OVERSEA



## IBIS Hotel – ACCOR Group

Key Room: 147 keys

Old System: Steam Boiler(Diesel)

New Installation: 2 Heat Pump (36.0 kw)

WHP100-EG-B-R134a

Cold Air Benefit: Corridor, Chiller Room

Energy Saving: 8xx,xxx Rupee/ year

Pay Back: 2.04 year

## Extension to IBIS HOTEL, JAIPUR INDIA



147 keys IBIS HOTEL, JAIPUR INDIA



105 keys IBIS HOTEL, Vientiane LAOS



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