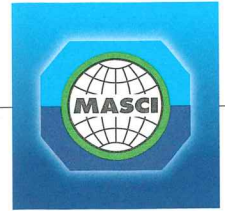


Certificate Number EnMS14010/049



certification

ISO 50001

ENERGY MANAGEMENT SYSTEM

Certificate of Approval

This is to certify that

PTT Global Chemical Public Company Limited Branch 1 Rayong Office

Address of premises : 59 Ratniyom Road,
Noen-Phra, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :

Building management of administration building

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 25th April 2014

Punnee Angsusingha

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



MASCI



NSC-TISI-ISO 50003
EnMS 004

Management System Certification Institute (Thailand), Foundation for Industrial Development

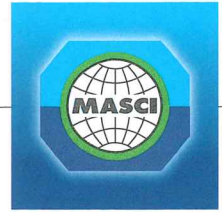
1025, 2nd, 11th, 18th Floor, Yekit Building, Phaholyothin Road, Phayathai, Bangkok 10400, Thailand
Tel: (+662) 617-1771-36 Fax: (+662) 617-1707-9 www.masci.or.th

Certificate Number EnMS13012/025

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

PTT Global Chemical Public Company Limited

Address of premises :

Branch 2 Olefins 1 : 14, I-1 Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

Branch 3 Olefins 2 : 9, I-4 Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

Branch 11 Olefins 3 : 8 Padaeng Road,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :

Branch 2 Olefins 1 :
Manufacture of ethylene and propylene

Branch 3 Olefins 2 :
Manufacture of ethylene, propylene, butadiene and butene-1

Branch 11 Olefins 3 :
Manufacture of ethylene and propylene

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)

Management System Certification Institute (Thailand), Foundation for Industrial Development
1025, 2nd, 11th, 18th Floor, Yakul Building, Phahonyothin Road, Phra Pradaeng, Bangkok 10910, Thailand
Tel. (+662) 617-1727-36 Fax (+662) 617-1707-8 www.mscert.co.th



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Certificate Number EnMS13013/026

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

PTT Global Chemical Public Company Limited

Address of premises :

Branch 2 Utility : 14, I-1 Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

Branch 7 Jetty & BTF : 19 Rong-Pui Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :

Branch 2 Utility :
Manufacture of electricity, steam, treated water and demineralized water

Branch 7 Jetty & BTF :
Petrochemical jetty and buffer tank farm management of ethylene, propylene,
butadiene, butene-1 and C4 raffinate

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



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NSC-TISI-ISO 50003
EnMS 004

Management System Certification Institute (Thailand), Foundation for Industrial Development

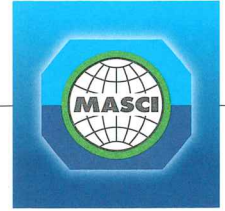
1025, 2nd, 11th, 18th Floor, Yakul Building, Phaholyothin Road, Phayathai, Bangkok 10400 Thailand
Tel: (+662) 617-1727-36 Fax: (+662) 617-1707-55 www.masci.or.th

Certificate Number EnMS13015/028

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

PTT Global Chemical Public Company Limited

Address of premises :

Branch 4 Aromatics 1 : 4, I-2 Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

Branch 5 Aromatics 2 : 98/9 Rayong Highway Road 3191,
RIL Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :
Manufacture of aromatics products

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

(Mrs. Punnee Angsusingha)

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Management System Certification Institute (Thailand)



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Certificate Number EnMS13017/030

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

PTT Global Chemical Public Company Limited Branch 6 Refinery

Address of premises : 8, 1-8 Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :

Manufacture of liquid petroleum products by refining and blending process

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

Punnee Angsusingha

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



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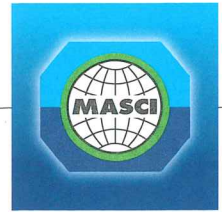


Certificate Number EnMS13021/034

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

PTT Global Chemical Public Company Limited

Address of premises :

- Branch 12 Polyethylene (HDPE1) : 8, I-10 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong District, Rayong 21150, Thailand
- Branch 2 Olefins I-1 (HDPE2) : 14, I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong District, Rayong 21150, Thailand
- Branch 11 Polyethylene (LLDPE) : 8 Padaeng Road, Map Ta Phut, Muang Rayong District, Rayong 21150, Thailand
- Branch 11 Polyethylene (LDPE) : 8 Padaeng Road, Map Ta Phut, Muang Rayong District, Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of ISO 50001:2018 Energy Management Systems

for the scope :

- Branch 12 Polyethylene (HDPE1) : Manufacture of high density polyethylene
- Branch 2 Olefins I-1 (HDPE2) : Manufacture of high density polyethylene
- Branch 11 Polyethylene (LLDPE) : Manufacture of linear low density polyethylene (LLDPE) and high density polyethylene (HDPE)
- Branch 11 Polyethylene (LDPE) : Manufacture of low density polyethylene (LDPE)

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



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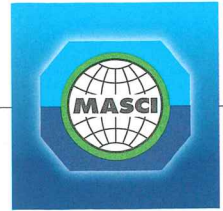


NSC-TISI-ISO 50003
EnMS 004

Management System Certification Institute (Thailand), Foundation for Industrial Development

1025, 2nd, 11th, 18th Floor, Yachai Building, Phanomyothin Road, Phayathai, Bangkok 10400, Thailand
Tel: (+662) 617-1727-36 Fax: (+662) 617-1707-58 www.masci.co.th

Certificate Number EnMS13023/036



certification

ISO 50001

ENERGY MANAGEMENT SYSTEM

Certificate of Approval

This is to certify that

GC Glycol Company Limited

Address of premises :

EG Unit : 9 Soi G-12, Pakorn Songkrorat Road,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

EA Unit : 9/1 Soi G-12, Pakorn Songkrorat Road,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :

EG Unit : Manufacture and distribution of ethylene oxide and ethylene glycol

EA Unit : Manufacture and distribution of ethanolamine

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

Punnee Angsusingha

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



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1025, 2nd, 11th, 18th Floor, Yakut Building, Phanloyojin Road, Phayathai, Bangkok 10400, Thailand
Tel: (+662) 617-1771-36 Fax: (+662) 617-1707-9 www.masci.or.th

Certificate Number EnMS13006/019

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

PTT Phenol Company Limited

Address of premises : 9 Soi G 9, Pakorn Songkhraorat Road,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :

Manufacture and distribution of Phenol, Acetone and Bisphenol A

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 29th June 2021

Valid Until 28th June 2024

First Issued Date 22nd April 2013

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



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NCS-TISI-ISO 50003
EnMS 004

Management System Certification Institute (Thailand), Foundation for Industrial Development

1025, 2nd, 11th, 18th Floor, Yakudi Building, Phanomyonin Road, Phayathai, Bangkok 10400, Thailand

Tel: (+662) 617-1727-36 Fax: (+662) 617-1707-88 www.masci.or.th

Certificate Number EnMS13025/038

certification

ISO 50001

ENERGY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

GC Styrenics Company Limited

Address of premises : 7, I-1 Road, Map Ta Phut Industrial Estate,
Map Ta Phut, Muang Rayong District,
Rayong 21150, Thailand

has been assessed and found to be conforming to the requirements of
ISO 50001:2018 Energy Management Systems

for the scope :
Manufacture of polystyrene resins

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 21st August 2021

Valid Until 20th August 2024

First Issued Date 13th December 2013

Punnee Angsusingha

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)

Management System Certification Institute (Thailand), Foundation for Industrial Development
1025, 2nd, 11th, 18th Floor, Yakuli Building, Phahonyothin Road, Phayathai, Bangkok 10400, Thailand
Tel. (+662) 617-1127-36 Fax (+662) 617-1707-56 www.mascoi.th



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