

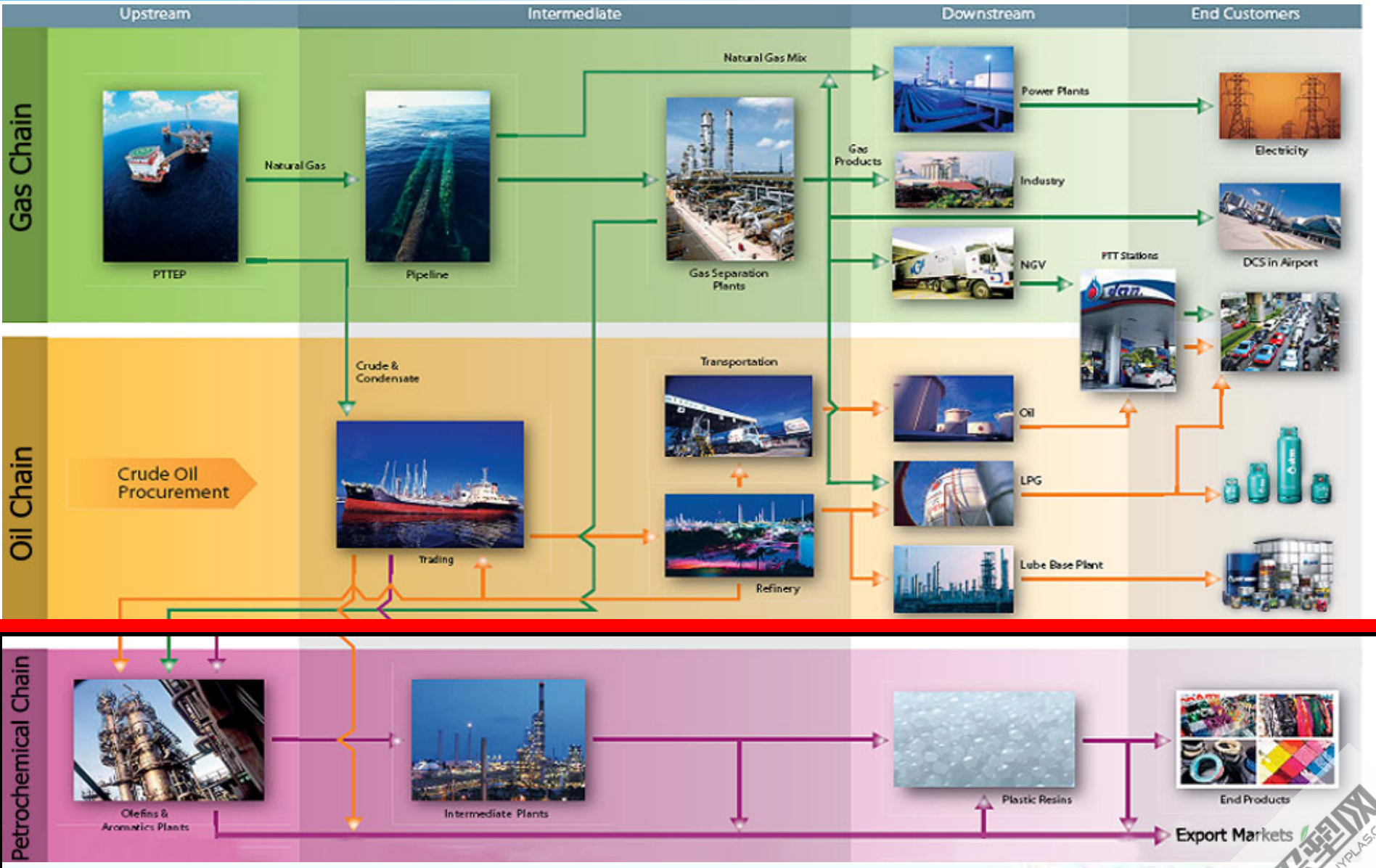


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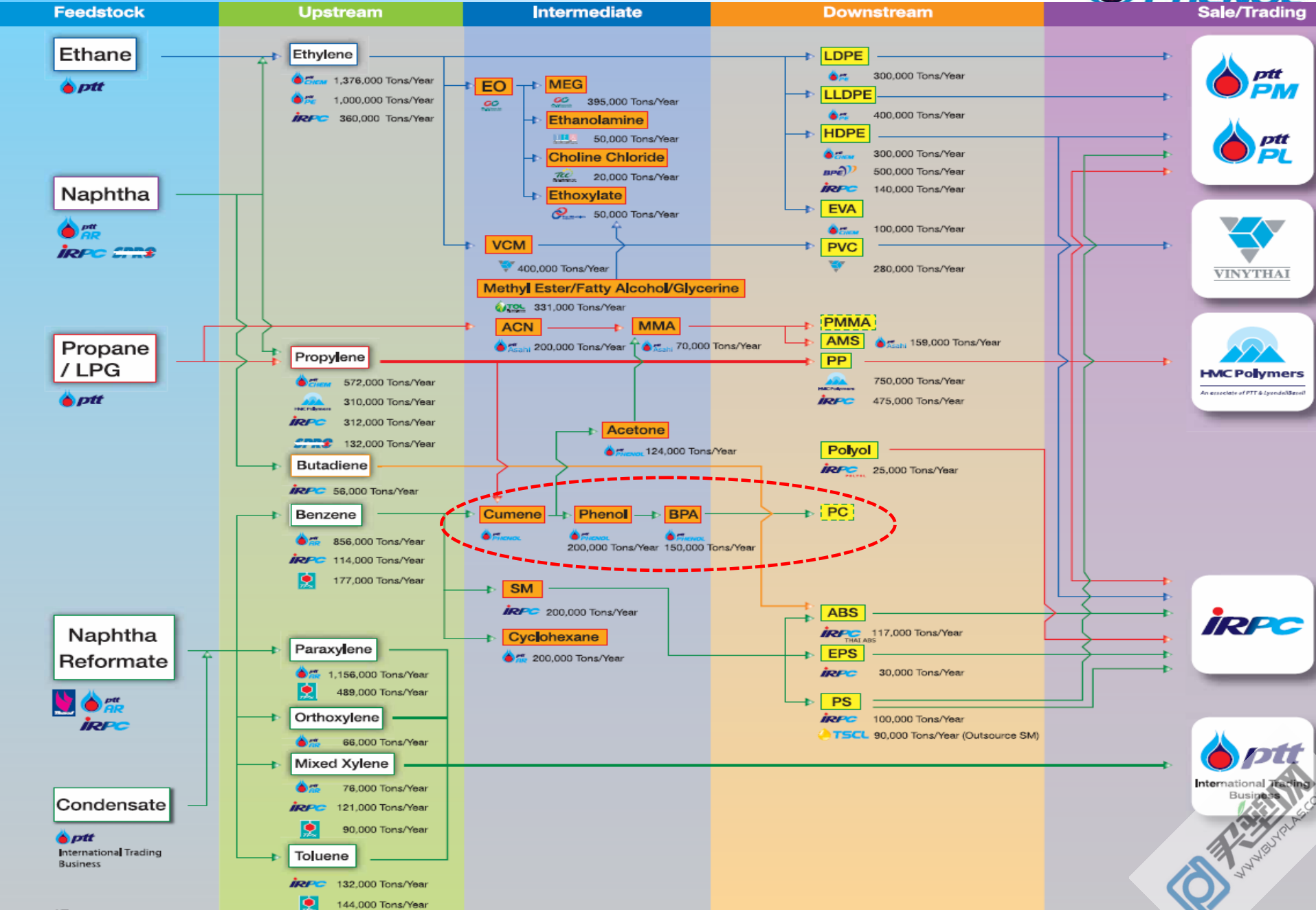
We build the way to the future,
while creating
a sustainable economy.

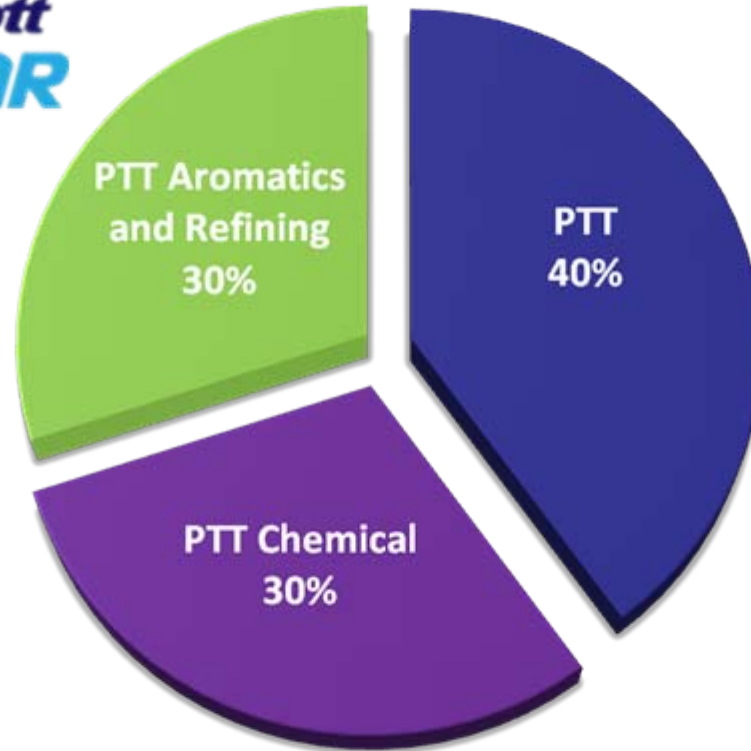


PTT Group Value Chain

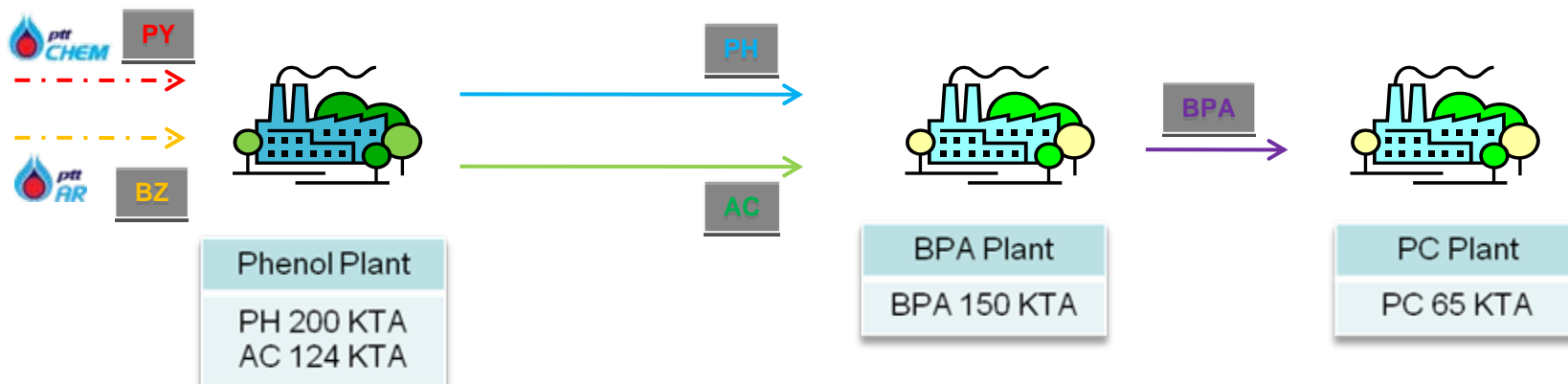


Petrochemical and Refining Unit





PTT Phenol Product



Phenol Plant
 PH 200 KTA
 AC 124 KTA

Debottleneck
 PH 50 KTA
 AC 31 KTA

BPA Plant
 BPA 150 KTA

PC Plant
 PC 65 KTA

Tech licensor: UOP
EPC contractor: CTCI
Location : Map Ta Phut, Rayong, Thailand
Commercial operation : 1Q2009

Tech licensor: Mitsubishi Chemical
EPC contractor: Toyo Thai Corp.
Location : Map Ta Phut, Rayong, Thailand
Commercial operation : 3Q2010

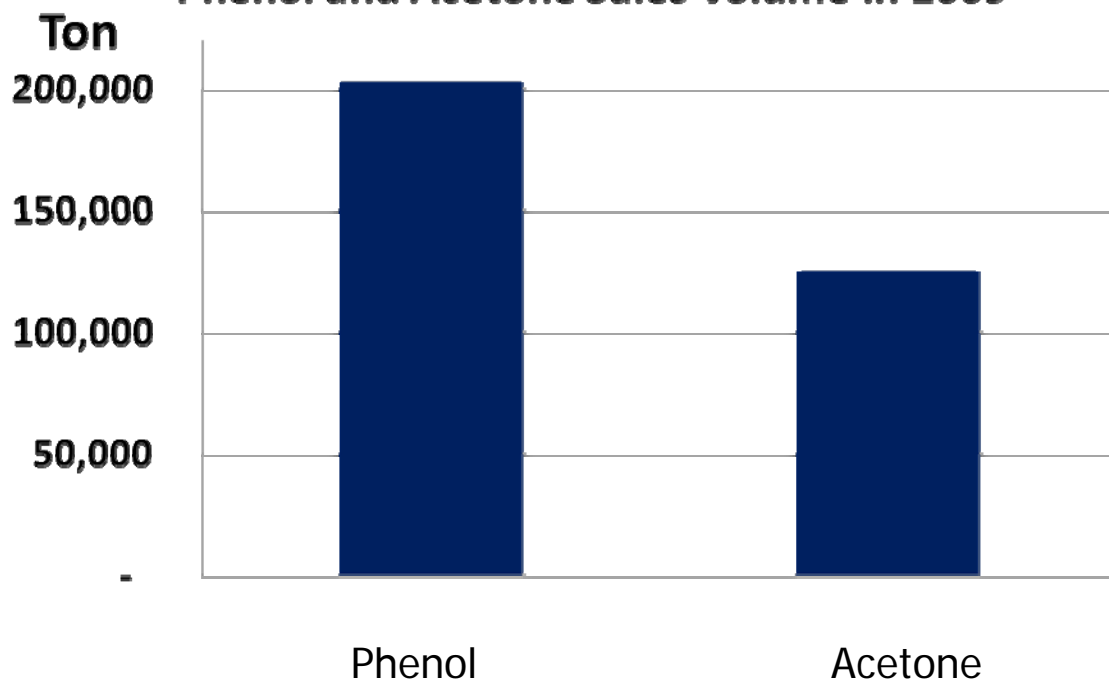
Future Project : PC Plant 65 KTA
Tentative Timeline : 2014
Potential Tech licensor : To be announced (on selection process)



Phenol and Acetone Sales Summary in 2009



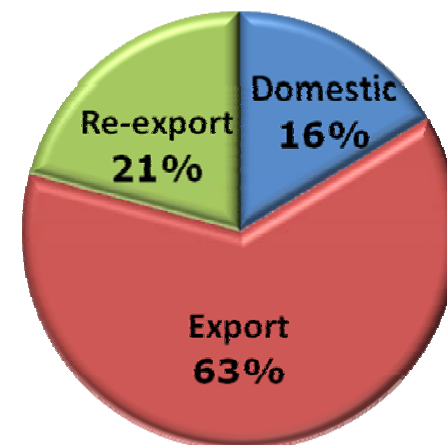
Phenol and Acetone Sales Volume in 2009



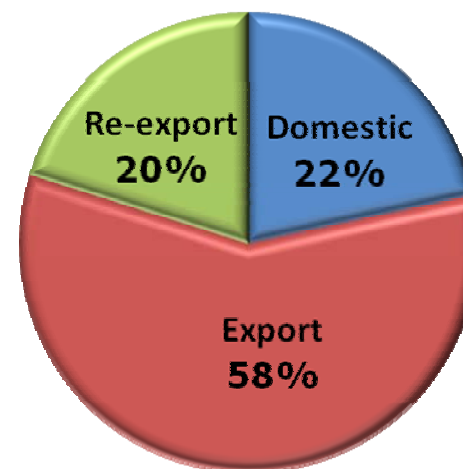
Unit: Ton

Product	Sales Volume in 2009
Phenol	202,650
Acetone	125,061
Total	327,711

Phenol Sales Portion in 2009



Acetone Sales Portion in 2009





PTT Research and Technology Institute



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PTT Research and Technology Institute



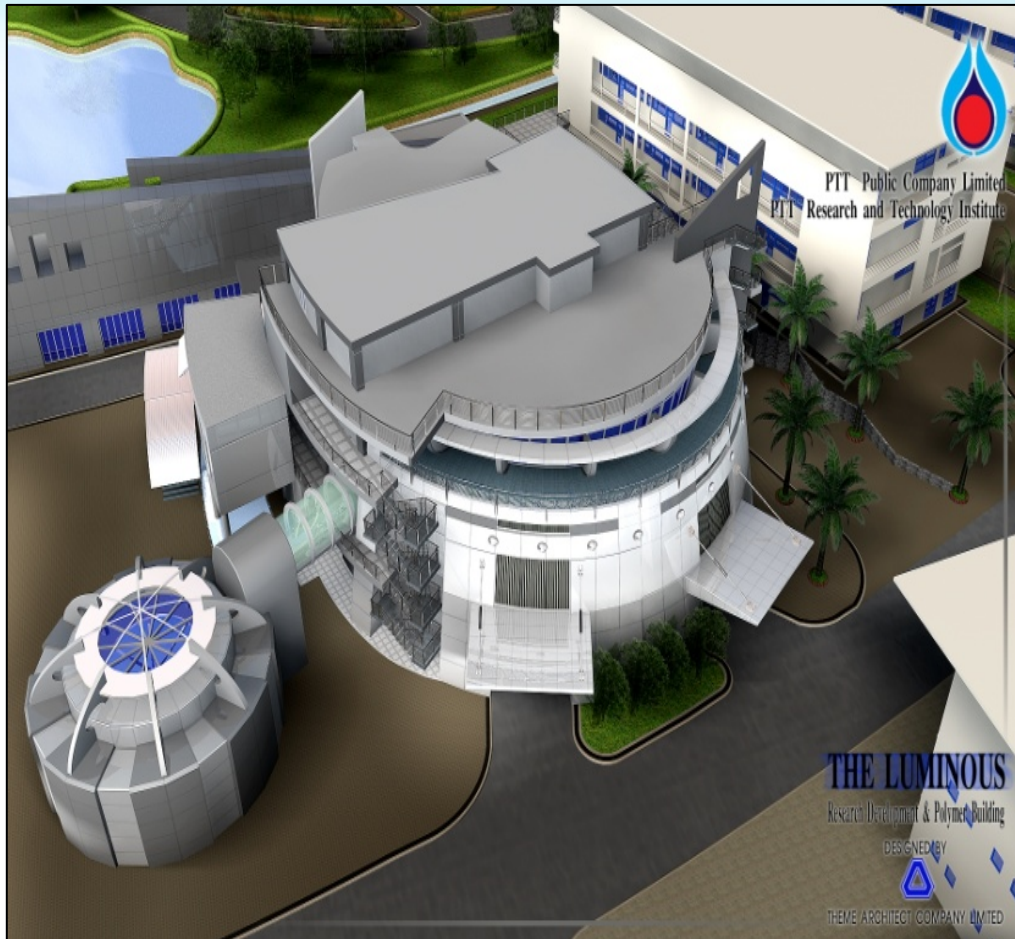
THE LUMINOUS
Research Development & Polymer Building

DESIGNED BY



THEME ARCHITECT COMPANY LIMITED





Polymer Processing Lab

MACHINE LISTS

Rheology characterization

Capillary rheometer
Melt flow index
Cone & plate viscometer
Viscometer
Brookfield viscometer

Polymer processing

Plastograph w/t twinscre extruder,
mixer, feeder and pelletizer
Blow film machine
Blow molding machine
Cast film
Compression molding machine
Automatic hollow die punch
Two roll mill
Monofilament
Grinding machine

Thermal characterization

TMA
DMA
DSC

Physical characterization

Thickness guage
Mettler drop point
Haze and gloss tester
Shore durometer
Density tester (Gradient column)
Color spectrophotometer
GPC
Raman
Flammability testing (UL 94)

Injection Molding



Twin Screw Extruder



Twin Screw Extruder

