

Enhancing inland container traffic: The challenge for Thailand Petrochemical Export

Present to the 14th ASEAN Ports & Shipping

July 15th, 2016

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Agenda



Petrochemical logistics situation

• Logistics strategies to minimize inland traffic

Thailand petrochemical production has continuously been increased, especially the major shifted in 2012.





Source: Petroleum Institute of Thailand (PTIT): Total major polymers include PE, PVC, PP, PS, EPS, and ABS/SAN

With markets in both domestic and international, demands are highly fluctuated through several factors.



Source: Petroleum Institute of Thailand (PTIT): Total major polymers include PE, PVC, PP, PS, EPS, and ABS/SAN

Like in other countries, several form of truck transportation are used for container export in Thailand.





• Transport method for Petrochemical export, for example, 1-TEU for 18 ton plastic resin, 1-FEU for 26-ton plastic resin, flexi-bag on TEU, steel drum on TEU, ISO Tank.





• Petrochemical logistics situation

Logistics strategies to minimize inland traffic

Overview linkage between Map Ta Phut and Laem Chabang Port





Present – From Map Ta Phut, Rayong to Laem Chabang Port, Chonburi/ Bkk & metro



Source: *Petroleum Institute of Thailand (PTIT)

With highly condensed traffic between MTP and LCB port, several approaches has been established to alleviate the traffic congestion out of MTP and into LCB.



<u>Alternative 1</u> : Train Transportation





<u>Alternative 2 :</u> Container Pickup via Export Vessel at MTP





Description & Results



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(PTT 125 TEUs, SCG 125 TEUs)

<u>Alternative 3 :</u> Promote Near by Port for Exporting





<u>Alternative 4 :</u> Pre-shuttle Strategy to Maximize Load





<u>Alternative 5 :</u> Barge Transportation





Description & Results Comparison of Logistics Cost between truck and barge Unit : Baht/Ton +100% Truck Barge Barge Transportation cost is higher than • Key truck **Observations** New Warehouse has high rental fee and Land is already occupied Reduce traffic on road **Short Term** Reduce logistics costs **Opportunities**

WAYS FORWARD



01

- Social & Environment
 Help to improve environment at MTP and LCB
 Reduce traffic congestion, air pollution and accident on road
 Build up relationship among community between MTP and LCB Area.

Need Support : Each company in that area should help to support community to get better life

02 Logistics

- Reduce Logistics costs and find more alternatives for exporting route
 Expand new logistics service that related to export business

Need Support : Each company awareness logistics costs and mode of transportation

03

- Economics
 The growth of petrochemical have to support Thailand Exportation
 Support SRTO (route MTP LCB) to improve transportation system in Thailand

Need Support : Each company should concern logistics costs that effect to GDP of country





Q & A