

Asia Green IT Forum 2011

Thailand's Experience and Development on Green IT

27 October 2011
at Coex Seoul, Korea



Activities & Experience Update

Greening IT Application

Create the use of IT for manufacturing sector

- **The use of IT & Embedded System for energy saving and cost reduction in factory project***

(the project undertook to develop the IT & embedded system for power monitoring and control on peak demand, power quality, and power factor , as well as Production management systems)

*the project launched by the Electrical and Electronics Institute (EEI) in association with the Department of Industrial Promotion (DIP) and the Office of Industrial Economics (OIE), Ministry of Industry, since 2008

Activities & Experience Update

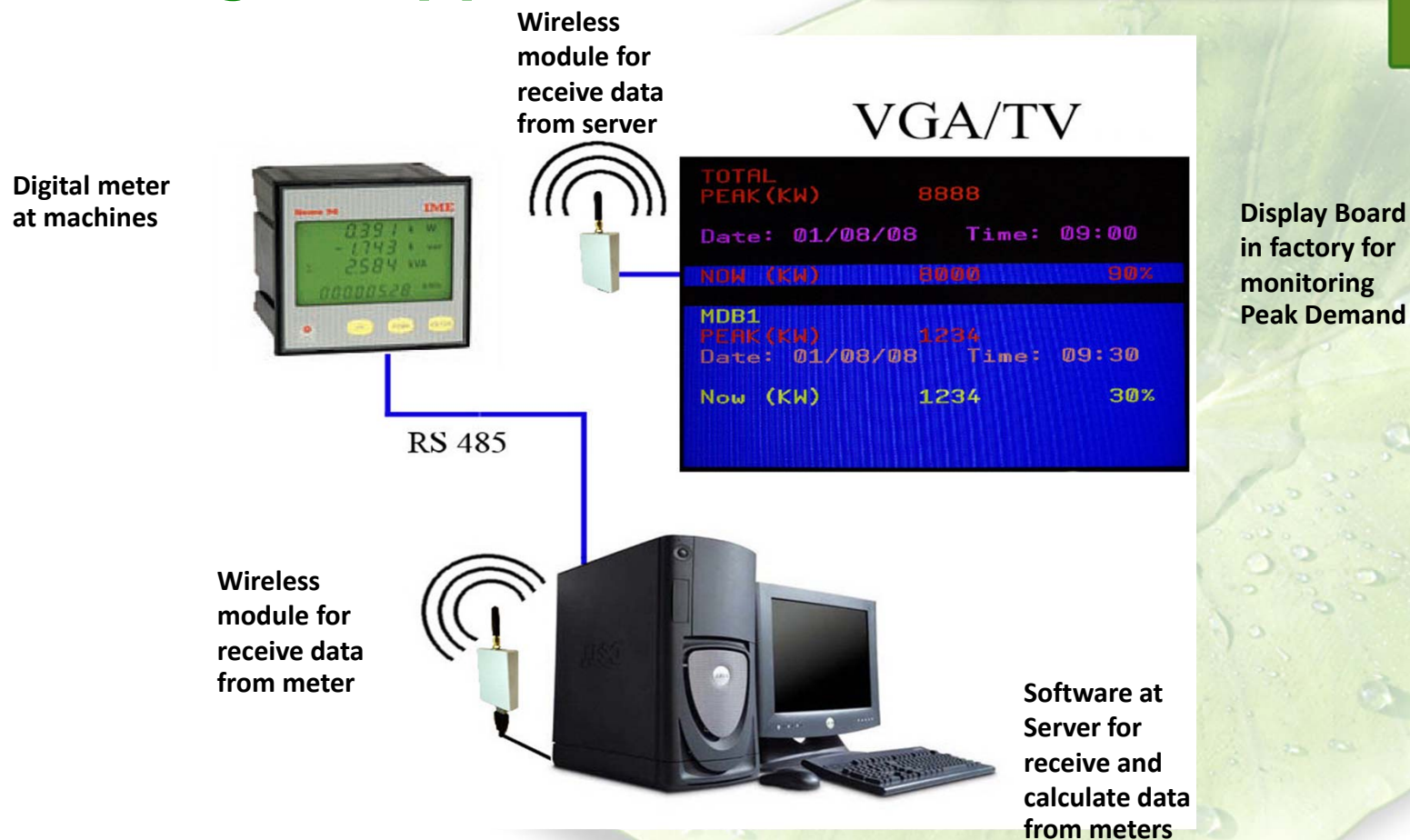
Greening IT Application

Develop the “Prototypes” of IT application

- Power Monitoring System
- Production Monitoring System
- Warehouse Management System
- Material Transportation for e-Kanban Mfg. System

Activities & Experience Update

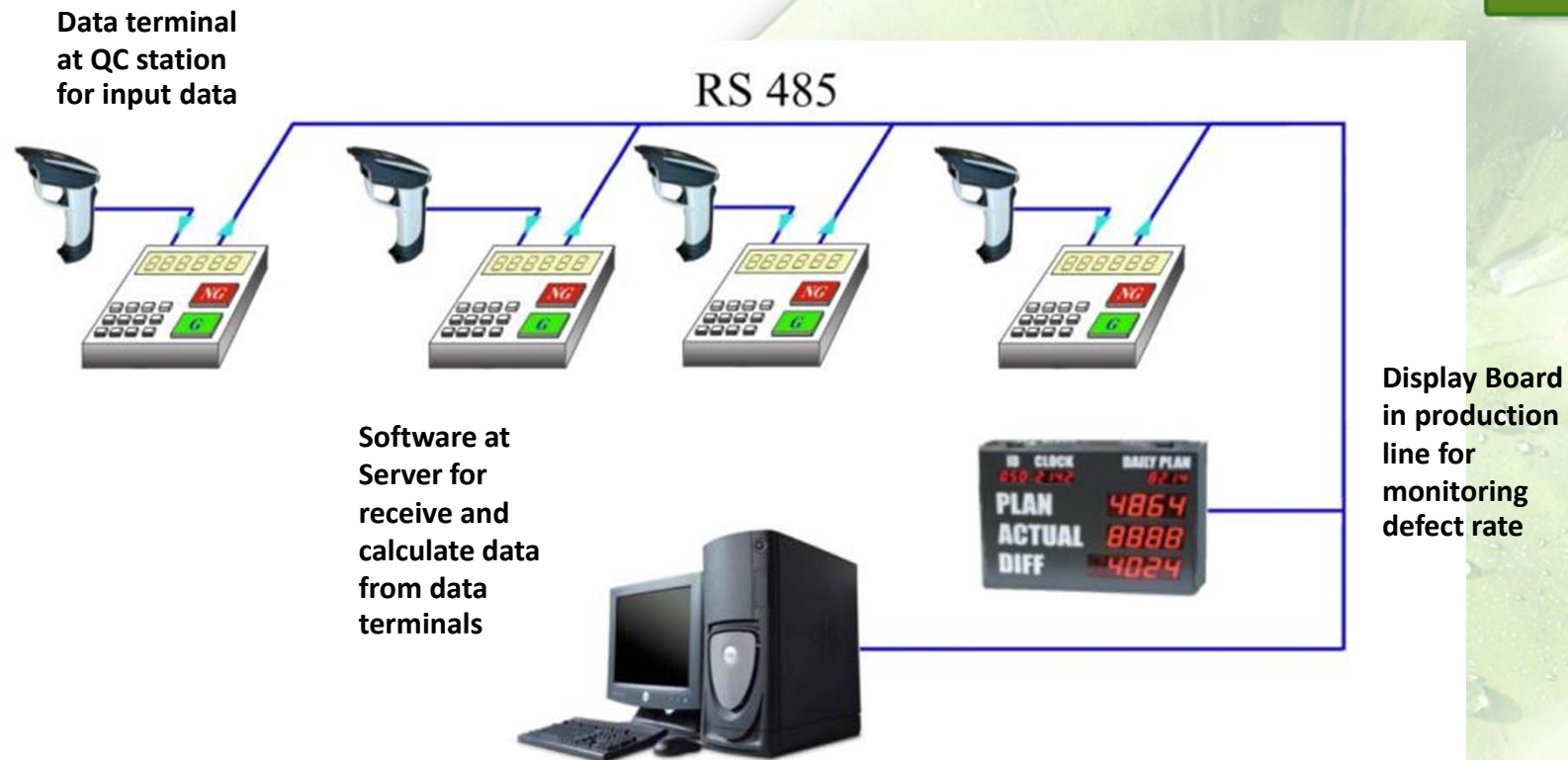
Greening IT Application



System Overview: Power Monitoring System

Activities & Experience Update

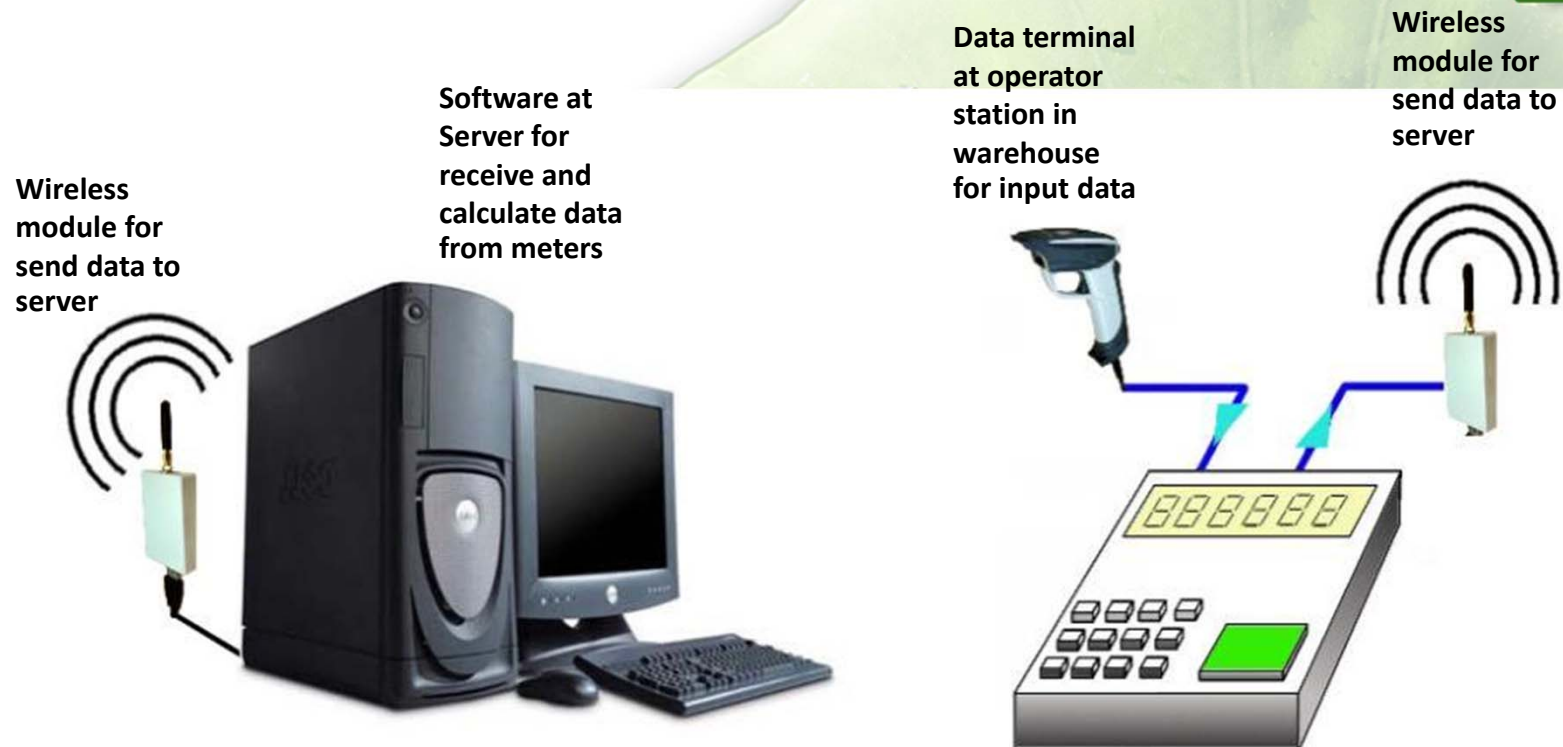
Greening IT Application



System Overview: Production Monitoring System

Activities & Experience Update

Greening IT Application



System Overview: Warehouse Management System

Activities & Experience Update

Greening IT Application

Data terminal and Display Board in assembly line for send material request to store



Data terminal and Display Board in assembly line for send material request to store



Data terminal and Display Board in assembly line for send material request to store

System Overview:
Material Transportation for e-kanban Mfg. System

Activities & Experience Update

Greening IT Application

Promote the use of IT for manufacturing sector

- 2008 Introduced Embedded System for Power monitoring and Production Management Project (4 prototype for pilot factories)
- 2009 Expand to 9 pilot factories
- 2010 Expand to 40 pilot factories
- 2011 Expand to 35 pilot factories

Activities & Experience Update

Greening IT Application

2008 - 2011 Summary

Total Company	System Implemented	Saving per year
44 Companies	Power Monitoring	Reduce Peak Demand by 20%
30 Companies	Production Monitoring	Reduce Defect Rate by 20%
8 Companies	Warehouse Management	Reduce Inventory Cost by 20%
6 Companies	Material Transportation for e-kanban Mfg.	Reduce WIP* to 0% (*work-in-process)
Total 88 Companies		

Activities & Experience Update

Promotion of Energy Conservation

- Energy label on “Standby Power 1 watt” (New Scheme)
 - 2 Products :Television and Display Monitor
 - 11 Brands of Television : to participate on the scheme/ total of 363 models*
 - 6 Brands of Display Monitor : to participate on the scheme/total of 48 models*

(*2010-2011 summary, as of Aug. 2011)

Activities & Experience Update

Promotion of Green Products

- **Promotion of Green Label / Eco Label**
 - To promote purchasing guideline for high – efficiency equipment and green label product on government procurement policy (GPP)
 - To promote Eco-Design / Eco-Product Exposition
- **Promotion of CFP / Carbon Label / CDM Project in E&E / ICT Industry**
- **Ongoing Capacity Bldg. on Eco-Design / LCA / LCI, Thai RoHS Voluntary Networking, Forthcoming Mandatory Thai RoHS Standard**

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Thank you for your Attention

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