附錄二:AESIEAP技術委員會三組工作小組簡報資料

◆ 第一工作小組







WG1 추진경위 '09. 2. 8 **TC First Meeting/ Malaysia: WG 3 operation voted '09. 5 ~ 7 **KEPCO * TC WG1 Leader(Dr. Hwang) confirm(5. 7) • TC WG1 leader notice → AESIEAP Office • WG1 composition and establishing operation plans (7. 2) • Recruit members (8 Countries 11 people) • WG1 Submitting activity plans → AESIEAP Office(7. 23)



WG1 Action Plan

- **■** Goal
 - Technology development of power sector→ Smart Grid
- Plan composition of organization, give duty of fulfillment, regular meeting
- Contents
 - Divided department per main item 5 Departments
 - Sharing technologies of Smart Grid
 - Discussing measures of standardizing technologies of SG
 - Visit to the site of smart grid pilot project in member nations





WG1 period of Activity

First step

- 3 month(August ~ Octobor)
- · Constructing organization and inform the duty

Second step

- Opening the meeting among WG1members
- · Venue: Discussing among members
- Consideration of opening the meeting in Jeju Island Korea Octobor 2010

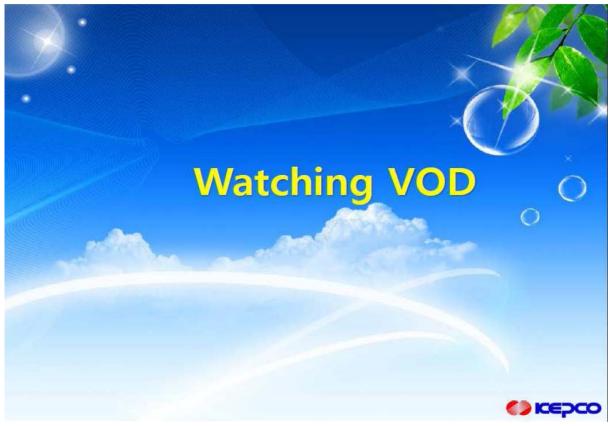
Third step

- By 2011 strongly performing
- Interim report of activity result and establishing next plan

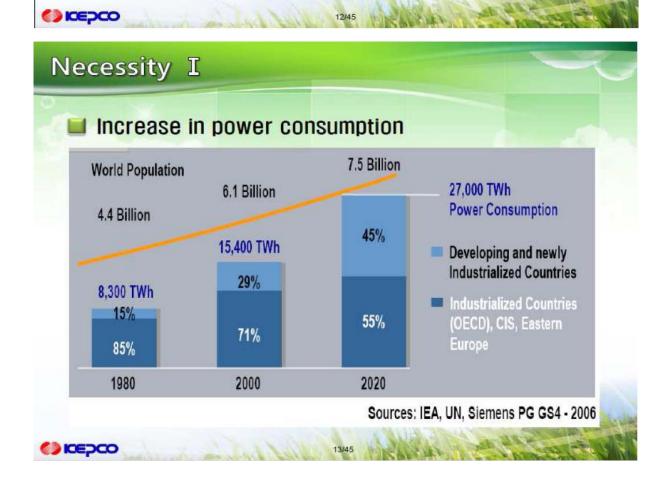
Considerations

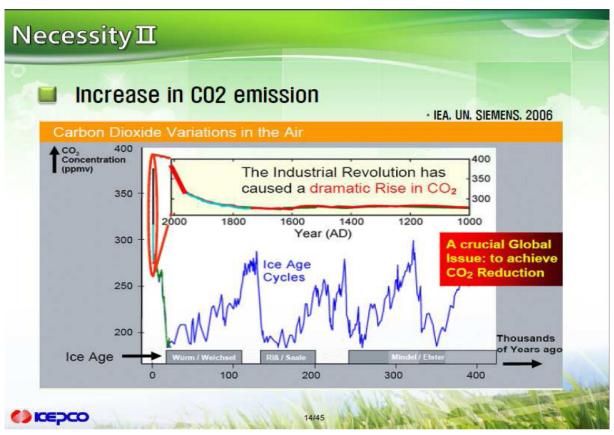
- Budget allocation of WG Activity like opening the meeting
 - Item :Arrangement, cost of stay including flight fee of members
 - Budget : About 25,000 dollars(per person 2,500dollars x 10)
- Necessity of support
 - Support participant of each country or AESIEAP support
 - Each power co. requesting
 - → Determination of support → Signing CEO report

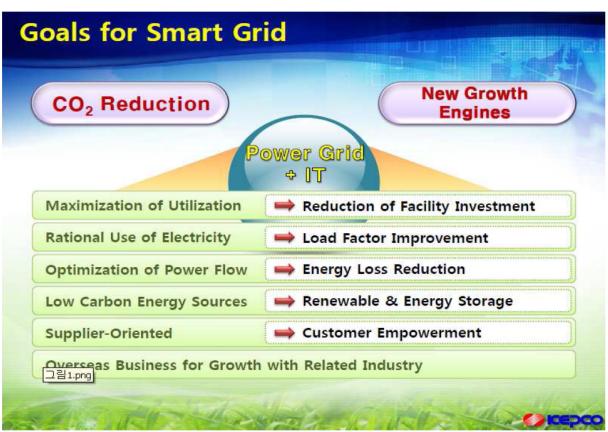




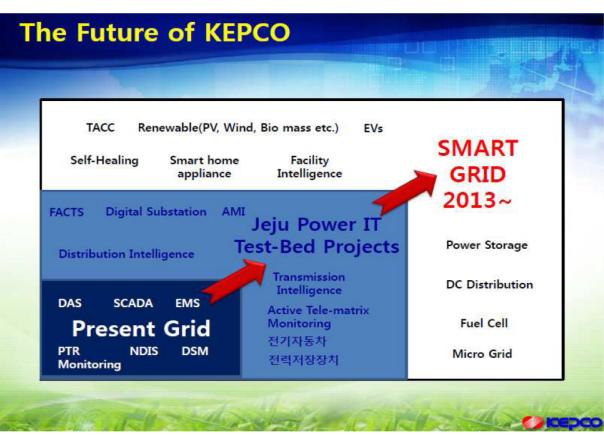
Why do we need Smart Grid?











10 Power-IT Program Overview

Objective : Integrate IT and power systems

Project : 31 projects to develop core technologies (automation

and intelligence) of Smart Grid

Participation: KEPCO along with 87 corporations, institutions and

universities

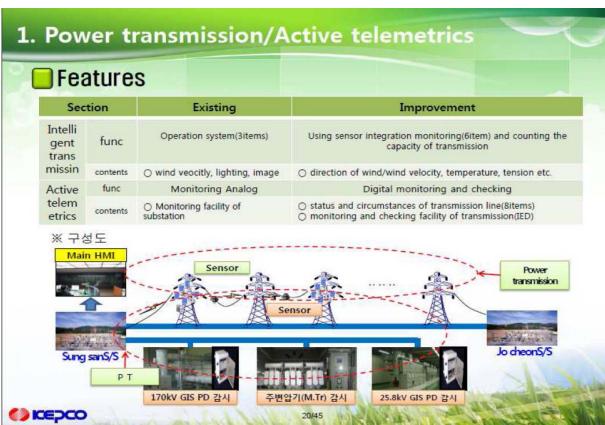
■ Timeline : October 2005 ~ September 2010

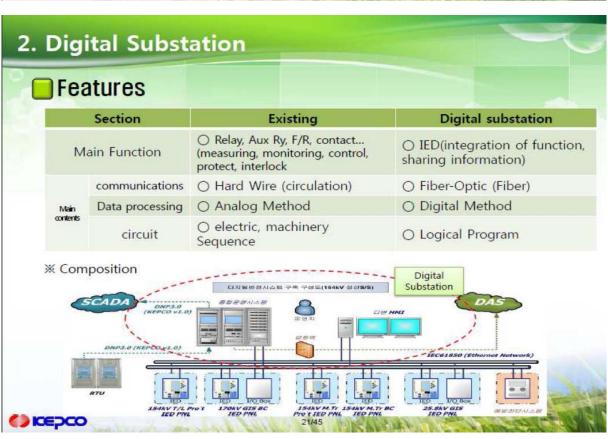
Budget: \$254 million of cash and in-kind

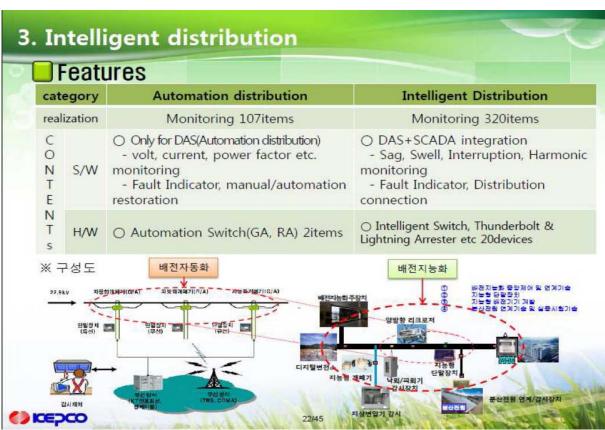
Features of Power IT on each main Study result



19/45













Scale of Test Bed

5 Parts of Smart Grid

Smart Power Grid

 Construction of Real-time Operation and Monitoring for Smart T&D System

Smart Place

 Integrated Management of Electric Power through Demand Response (by Two-way Information Exchange between Consumers and Suppliers)

Smart Transport

 Construction of the Charging Infrastructure and the Control Center for Next-generation Transportation(EVs)

Smart Renewable

 Connecting Renewable such as Wind, PVs to the Grid and constructing Micro-grid Operation Platform

Smart Elec. Service

 Development of Various Tariffs and Service Models for the construction of the Future Power Service Infrastructure



