WIEF JAKARTA
ROUND TABLE 2017

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Transition To A Green Economy

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Overview – Towards Green Economy

• Innovator’s Goal towards Customer’s Satisfaction
• Success Stories (Case Studies)
• Challenges (or Resistance) Faced
• Government’s Role & Citizen’s Play
Innovator’s Goal

• Design Criteria's
  – V.O.C. Approach
  – Maximize The Savings
  – Super Light Weight
    • Ease of Installation & Maintenance
    • Construction Cost Savings
    • Safety Aspects
  – Product’s Versatilities
    • Interchangeable
    • Serviceable
    • Future Upgradeable
  – Long Lasting
    • Savings – Maintenance Costs
Innovator’s Goal - Product Development

• Cut and Paste Approach (COPY)

• In-house Product Development

• Strategic Partnership Approach
Success Stories – Case Study 1

- Converting 700W Mercury Lamp to 130W LED
- Energy Saving – Approx. 81%
Success Stories – Case Study 2

- Converting 400W HPS to 70W LED
- Energy Saving – Approx. 82.5%
Success Stories – Case Study 3

- Converting 1000W HPS to 220W LED
- Energy Saving – Approx. 78%
Success Stories – Case Study 4

• Converting 150W~250W HPS to 36W~50W LED (residential areas)
• Converting 400W HPS to 90W~110W LED
• Converting 1000W HPS to 220W~290W LED
• Saving between 71% ~ 80%

2200K - 2700K
Challenges (or Resistance) Faced

- Too many failures.

State Energy News

New LED Street Lights Fail in the Rain

The City of San Antonio and CPS Energy are spending more than $14 million to replace street lights with energy saving LED fixtures. Now the News 4 WOAI Trouble Shooters have uncovered that all 25,000 of the fixtures had to be sent back to the manufacturer because of a glaring defect. And the cause? Rain… getting into the fixtures and shorting them out. Close to 2,000 of the street lights are already up in a few areas around the city, but installations came to a halt a few weeks ago when some of the new fixtures began to fail. CPS Energy says it evaluated LED fixtures made by eight different manufacturers before selecting the GreenStar/Toshiba lights. The utility says the defect is not a big deal, even though all installed fixtures had to be taken down, and all 25,000 street lights had to be returned to the manufacturer.
American Medical Association Warns Of Health And Safety Problems From “White” LED Streetlights
LED Streetlights Are Giving Neighborhoods the Blues

Early adopters of LED street lighting are struggling with glare and light pollution

Posted 22 Sep 2016 | 19:00 GMT
By JEFF HECHT
'LED street lights are disturbing my sleep'

By Brian Wheeler
BBC News, Washington DC

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