กระทรวงพลังงาน
MINISTRY OF ENERGY

Digitalisation Energy Efficiency and Smart Grid in Thailand

DR.TWARATH SUTABUTR

Ministry of Energy, THAILAND

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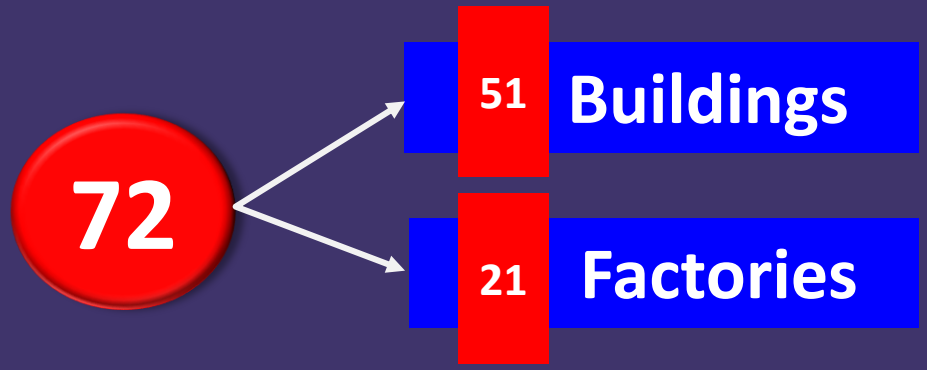


- Overview of Thailand Energy Situation
- Digitalisation + Energy Efficiency
- Smart Grid
- Next Step



- Population > 66.5 million people
- GDP > 10.9 trillion THB or 307 m€
- Total Final Energy Consumption > 79,427 ktoe
- Electricity Generation Capacity > 49,304 MW
- Peak Demand > 32,273 MW
- % of RE– Power (Include Hydro) > 3.71%

Digitalisation + Energy Efficiency



Demonstration Projects "IOT + EE"

- Funding from ENCON Fund
- Granted 126 m.THB or 3.5 m €
- Potential Energy Saving = 206 m.THB or 5.7 m €

Thailand Smart Grid Projects

On Grid +Embedded Nano Grid

P2P – Power Trading

Block T 77



ERC – Sandbox Phase 1

Off - Grid

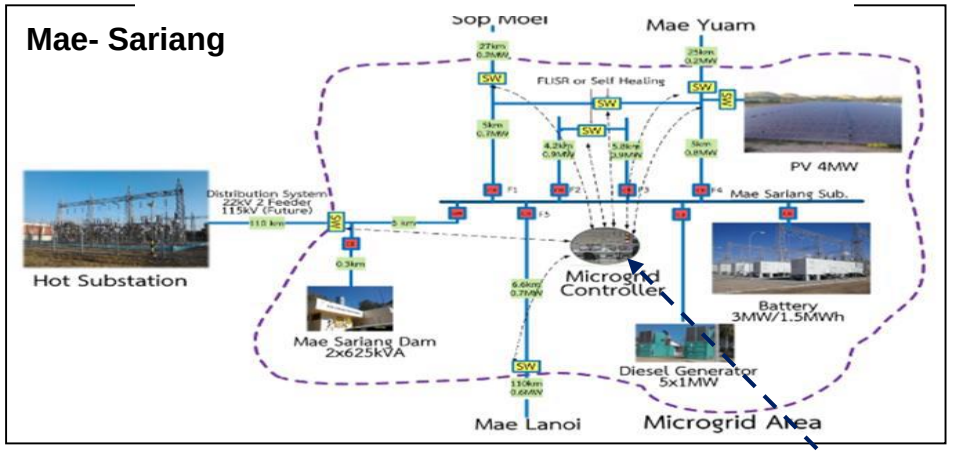
Islands

- ✓ Koh Jik
- ✓ Koh Bulon Lae
- ✓ Koh Sinhai

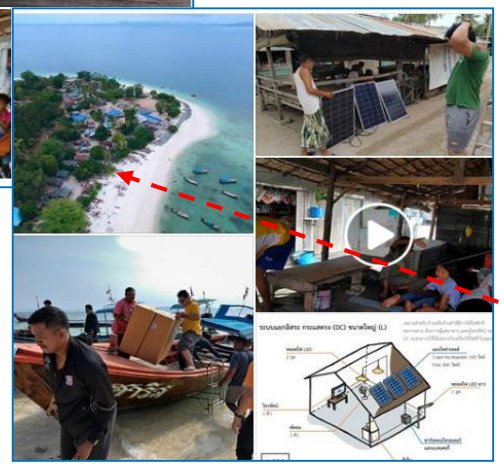
Hilltop Villages

- ✓ Mae- Sariang
- ✓ Ban Khun pae

Area – Wide Control



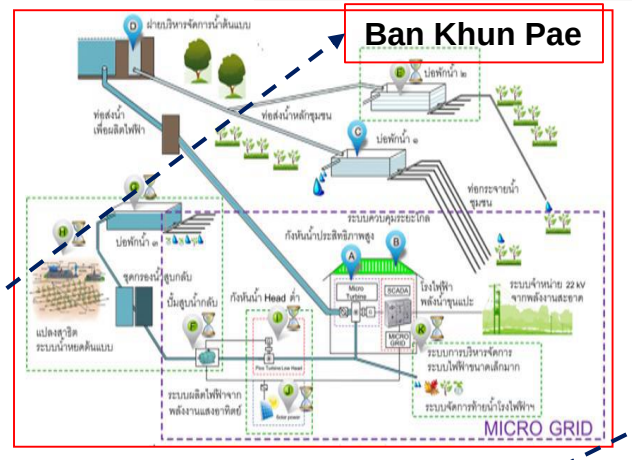




Koh Bulon Lae

Solar-Home DC System Pay-As-You-Go

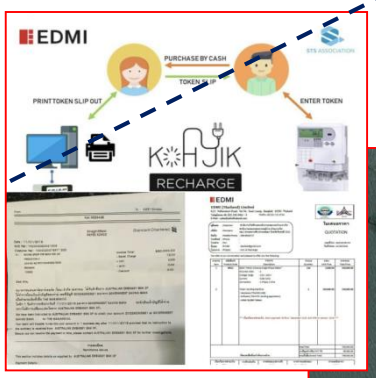
Solar-Wind-Hydro Micro Grid

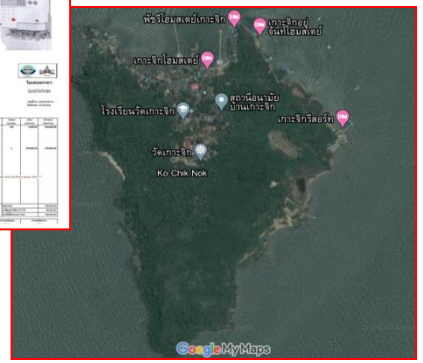






Koh Sinhai





Koh Jik

Next Steps

Policy + Regulations

- 100% Electrification through "Community – based Power Plant"
- New EEP – with new policies
    1. Demand Response
    2. Wheel-to-grid
- Possible Change in Rules + Regulations to allow more "Digitalisation" & "Transformation"

New Projects + Investment

- More Grants for "IOT+ EE"
- New Round of "Sand Box"


Thank you