



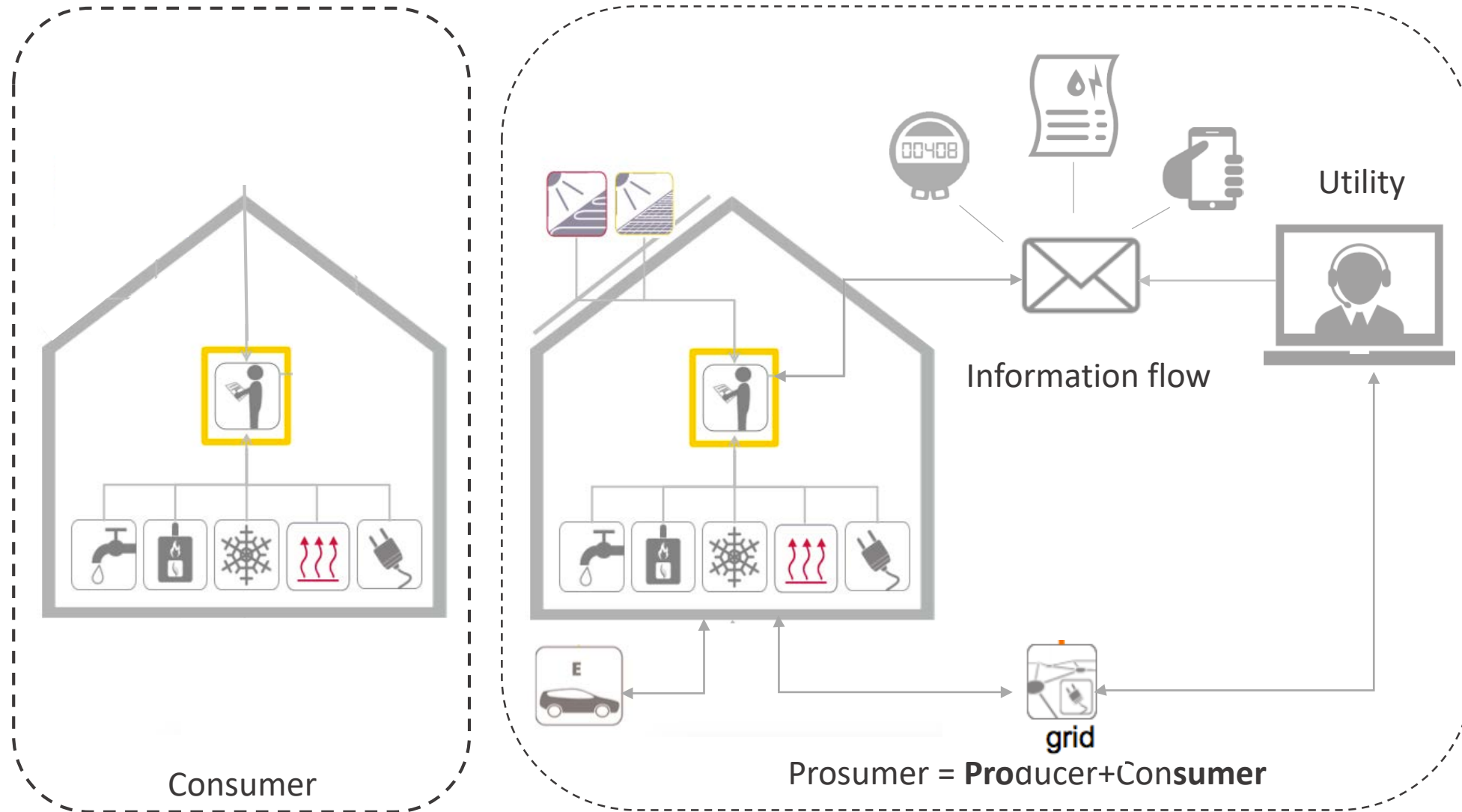
EnergyPlus residential building behavior towards smart grid development in Thailand

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1st November 2017

Soapbox session, IEPPEC Conference, Bangkok

From Consumer to Prosumer



Idea:

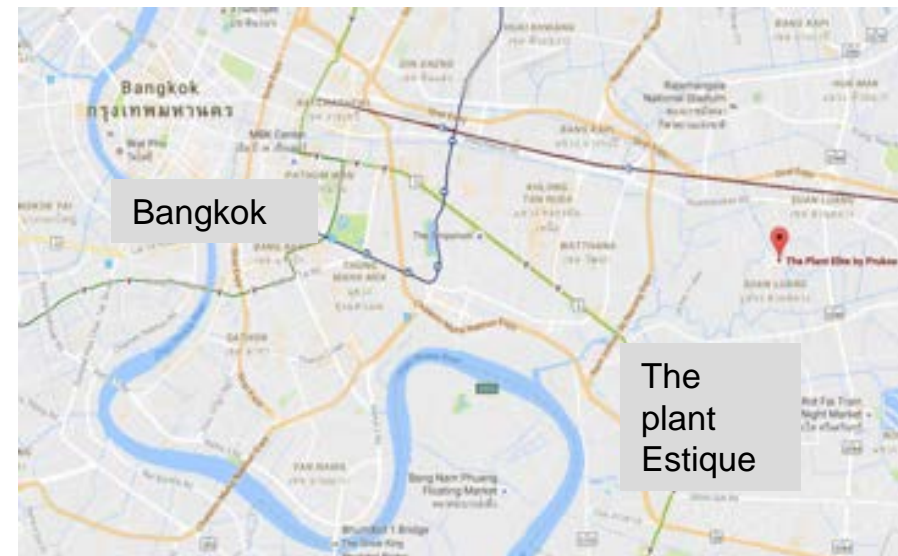
- Design of a Pilot single family house
- Fulfil Energy Plus Standard
- Sustainable Building Certification according to DGNB

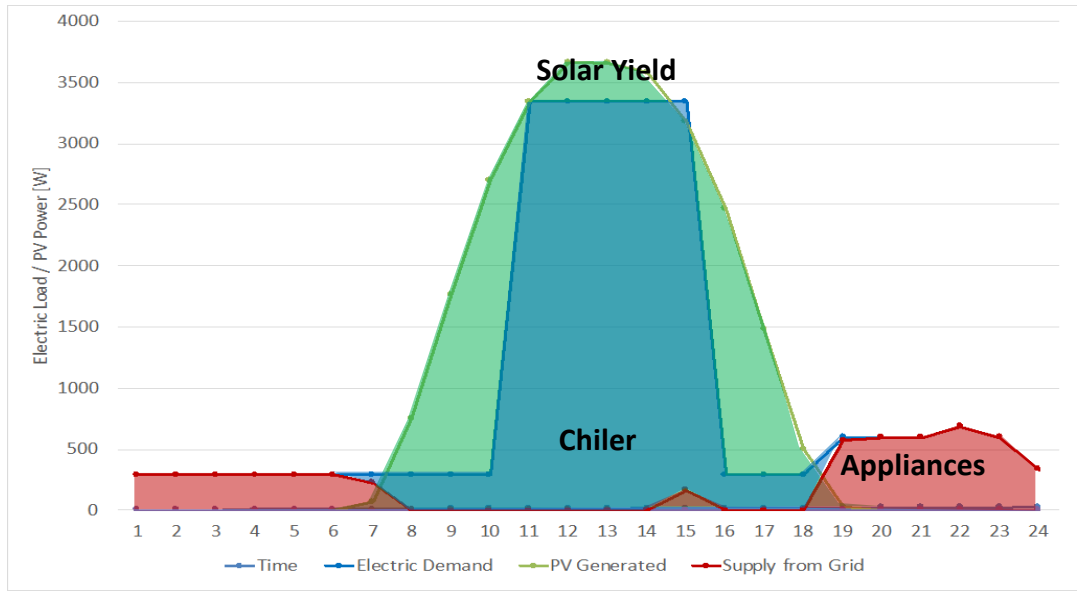
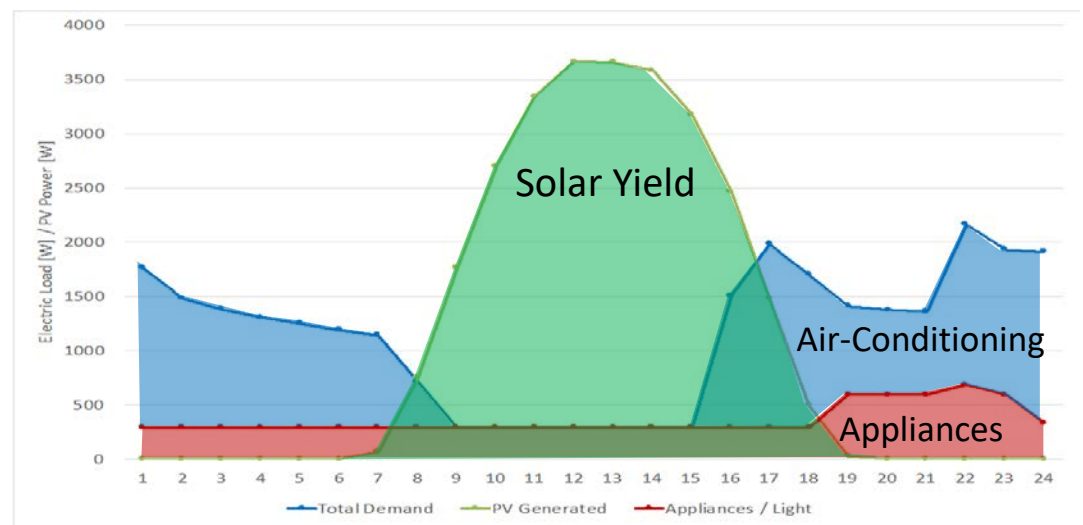
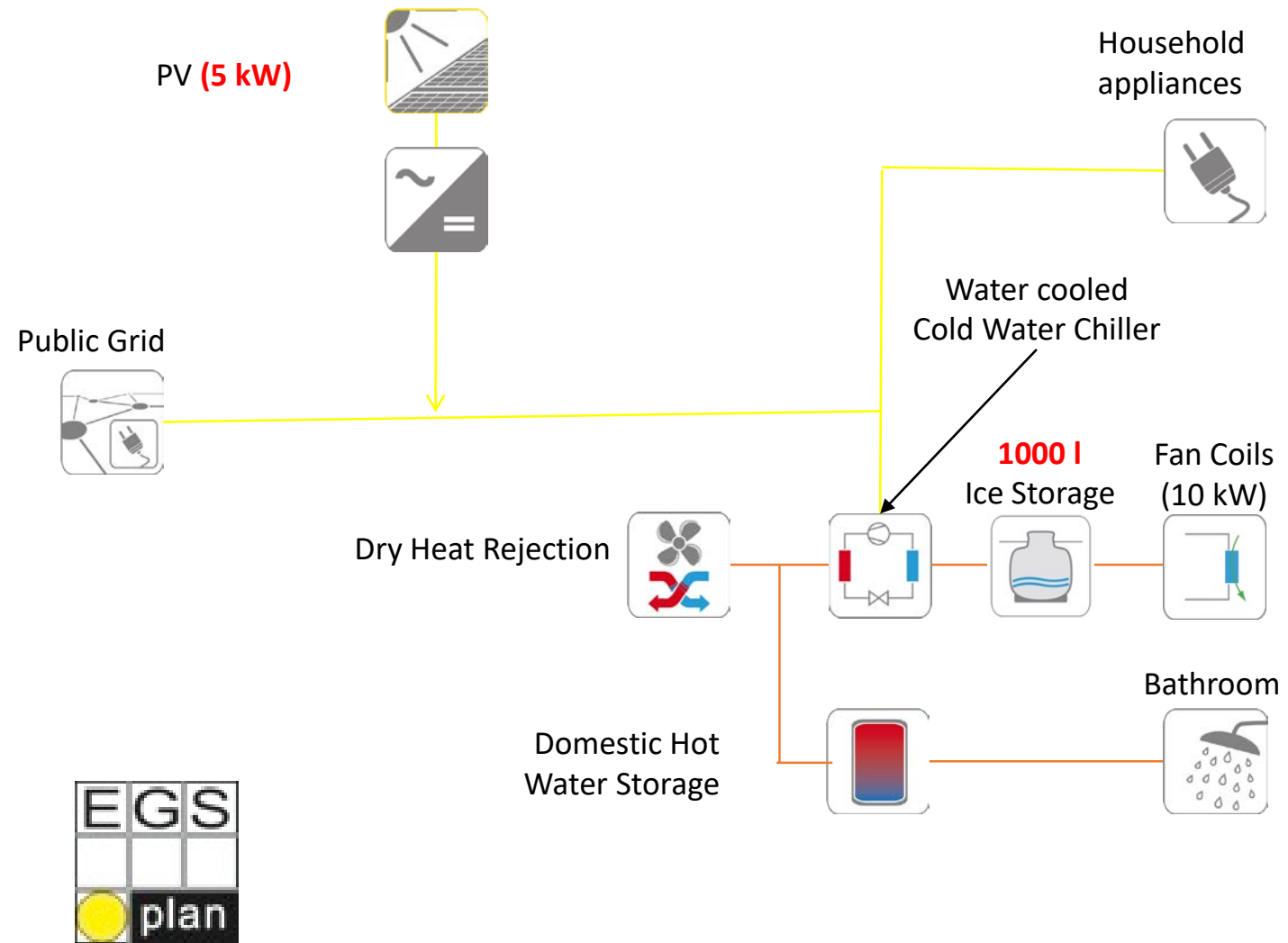
Project Partners:

- Project Owner
- General Contractor
- Architect
- DGNB certification
- Energy Design
- DGNB certification



[source: unexpected architects]

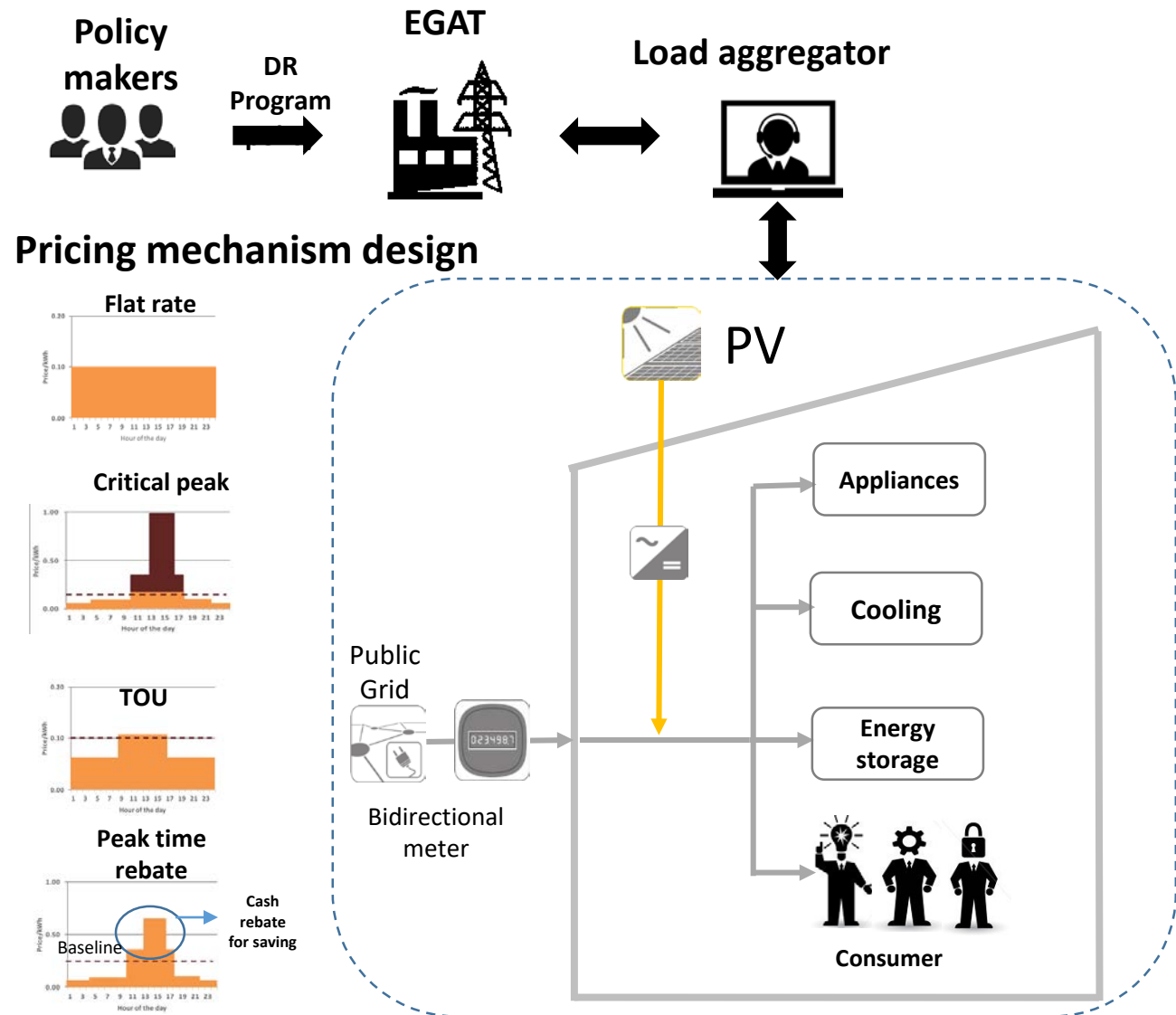




Ice Thermal Energy Storage (ITES)



How to monitoring on consumer behavior change?



- Consumer behavior change through information flow and pricing signal.
- Where the smart meter and incentive are not in place, Home Energy Management System (HEMS) acts as a tool.



Make energy visible!



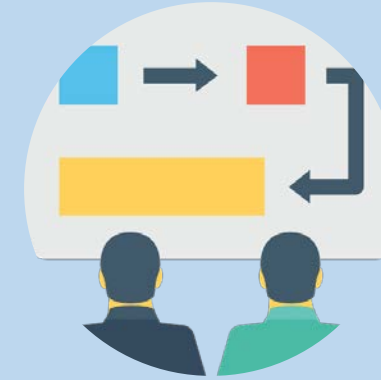
Technology

- Building technology
- RE/Energy storage



Social

- Consumer behavior
- Information flow



Market

- Institutional
- Pricing mechanism



Thank you very much

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