

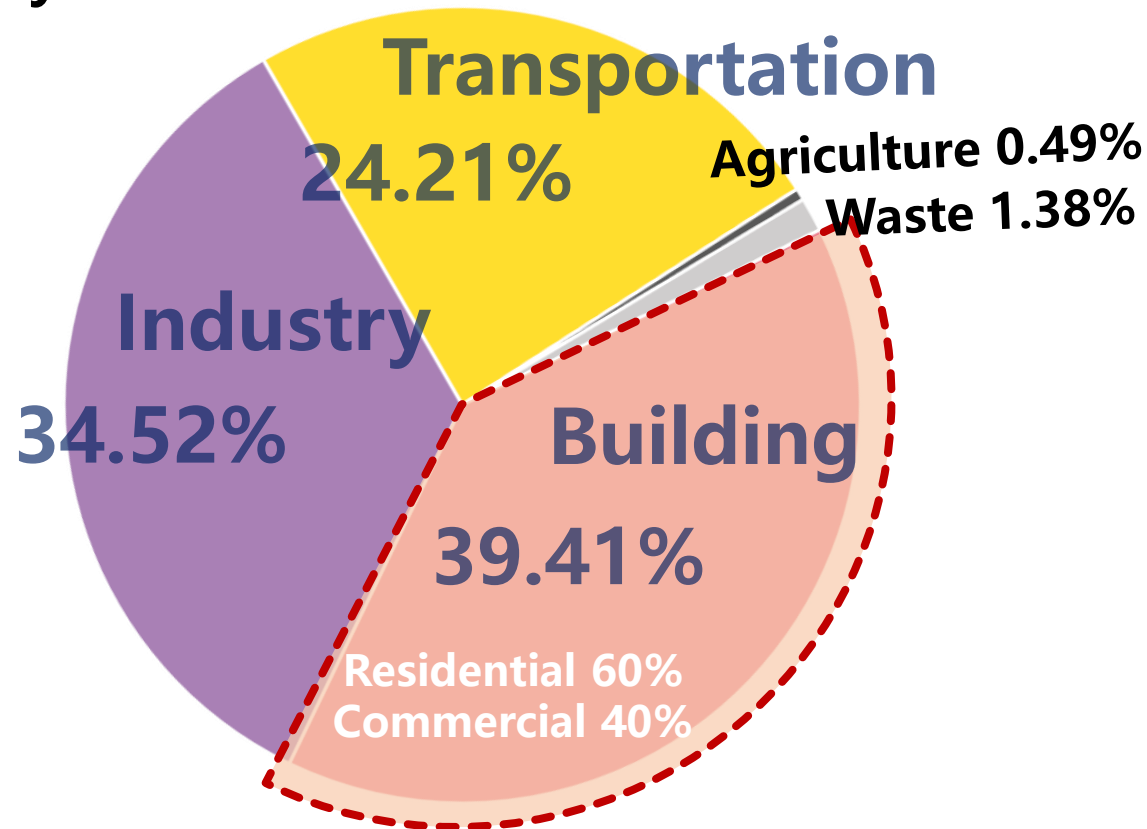
Smart Building Energy Management & Carbon Reduction

Low Carbon Community Development Center,
Environmental Protection Department, New Taipei City
LI Junne-yih, Chief,
March 01, 2023



2050 Net-Zero Vision

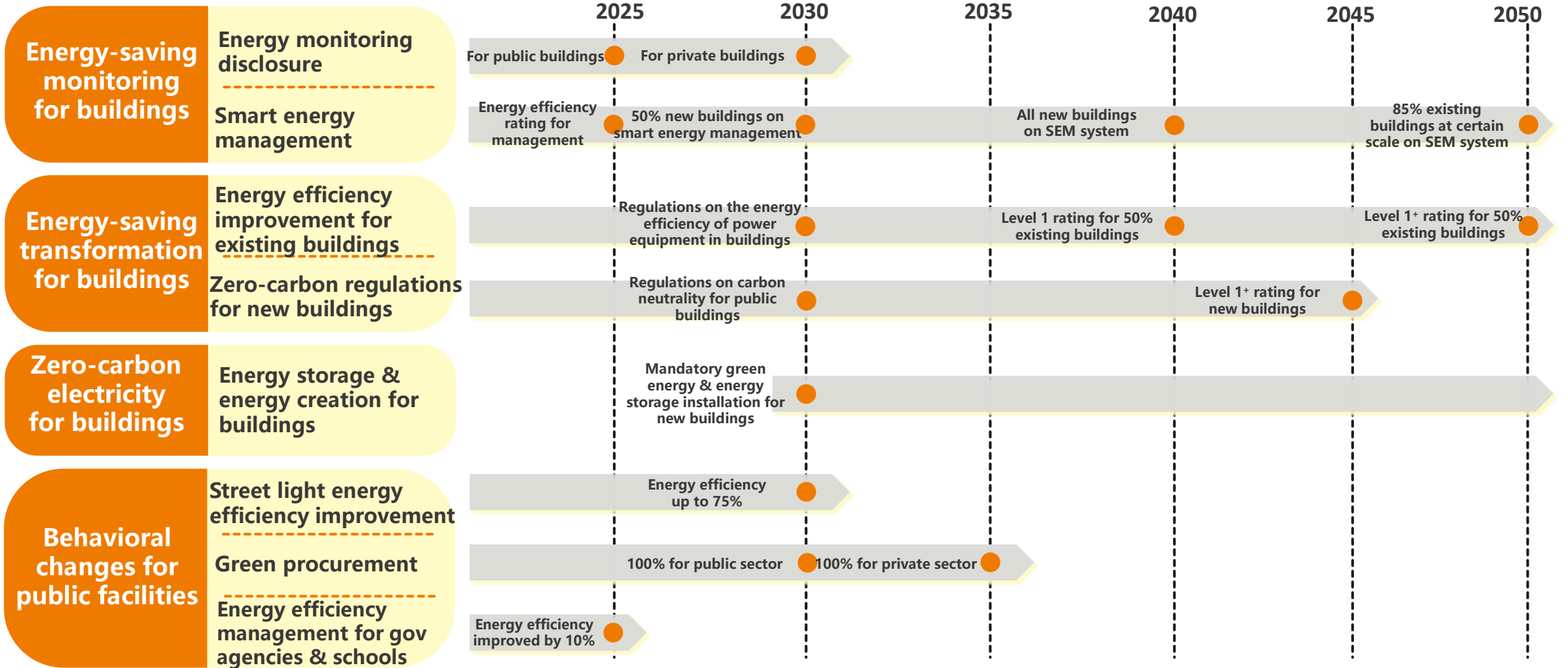
GHG Emissions
in New Taipei City
by Sector



Climate Action White Paper
published In Aug. 2022

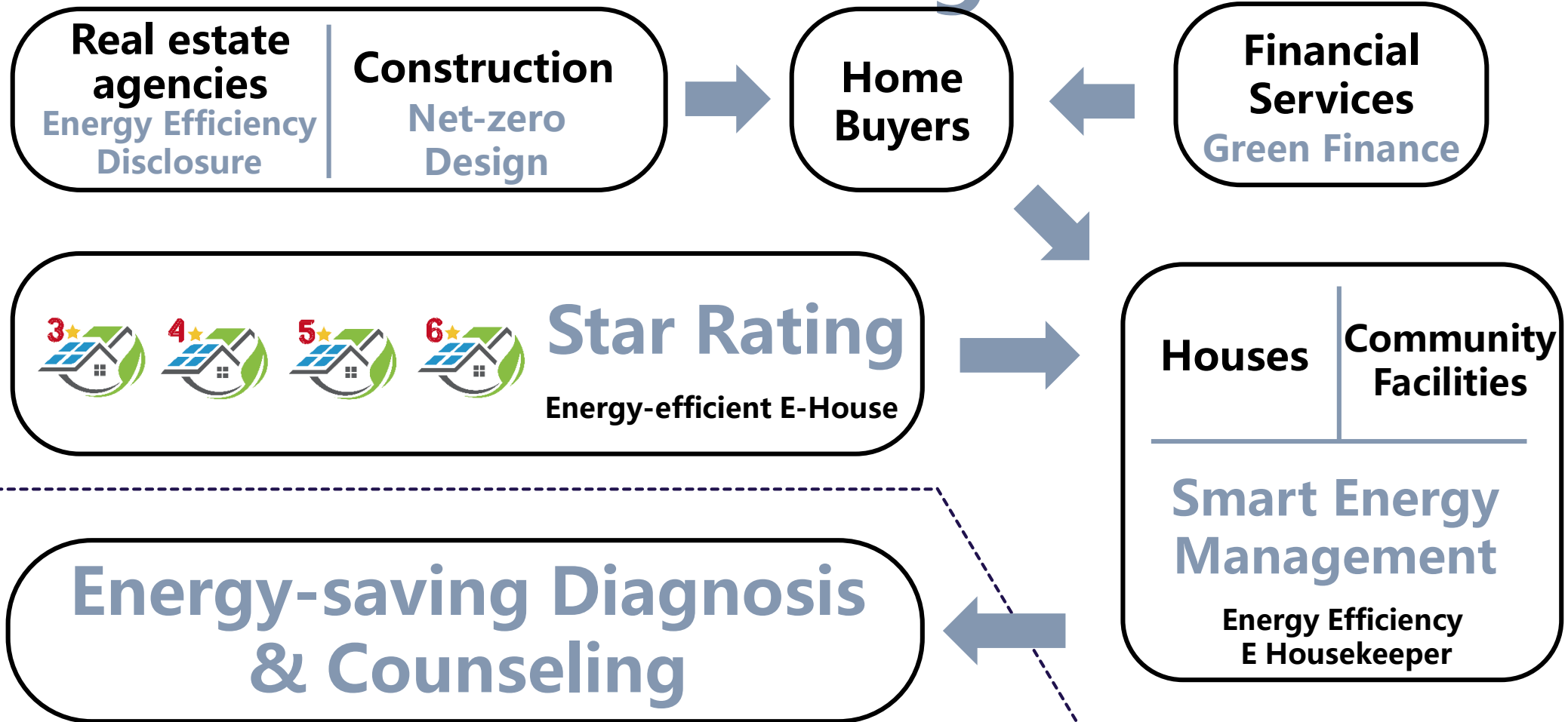


Towards a Net-Zero New Taipei City...



Building Energy Efficiency System

Circular Management



Community-wise EE Rating

Star	EUI of Cmty Facilities (EUI kWh/m2.yr)	Energy Saved from Cmty Facilities	Energy Saved from Households	Total Energy Saved
3-Star	25	20%	20%	20%
4-Star	15	50%	25%	30%
5-Star	10	70%	30%	40%
6-Star	7	80%	40%	50%

Star Rating Energy-efficient E-House

- Energy Efficiency Disclosure
- Rating for Management



EUI of Cmty Facilities

Smart Energy Management Energy Efficiency E Housekeeper

- Electricity Consumption Fingerprint Mapping
- Proactive energy-saving tools



EUI of Households

Community-wise EUI



$$\begin{array}{c}
 80\% \\
 \text{(Energy Saved from Cmty Facilities)} \\
 \times \\
 25\% \\
 \text{(Cmty Facilities \% in the total consumption)}
 \end{array}$$



$$\begin{array}{c}
 40\% \\
 \text{(Energy Saved from Households)} \\
 \times \\
 75\% \\
 \text{(Households \% in the total consumption)}
 \end{array}$$

= 50%(Total energy saved)

E-House Buying Services + Real Estate Agencies

- E-House Star Rating disclosed on real estate agency websites
- Proactive promotion by the agents to involve communities



信義房屋 買屋 賣屋 租屋

捷運上郡
新北市新莊區中正路89
3巷82號

13年
大樓
26.00~52.00坪
15層
141戶

新北節能E好宅

720度社區公設環景

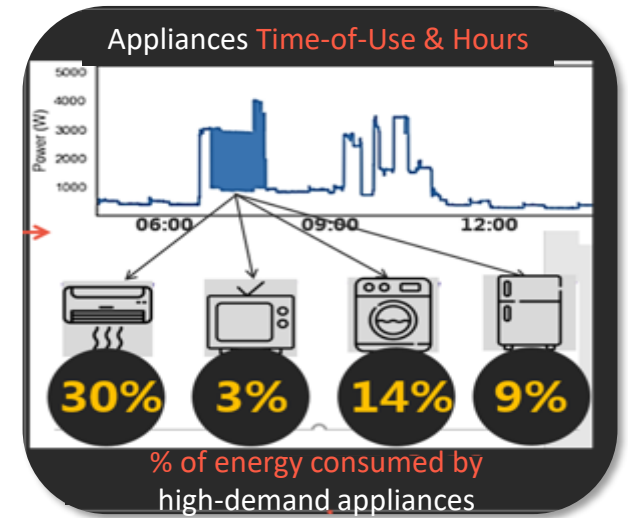
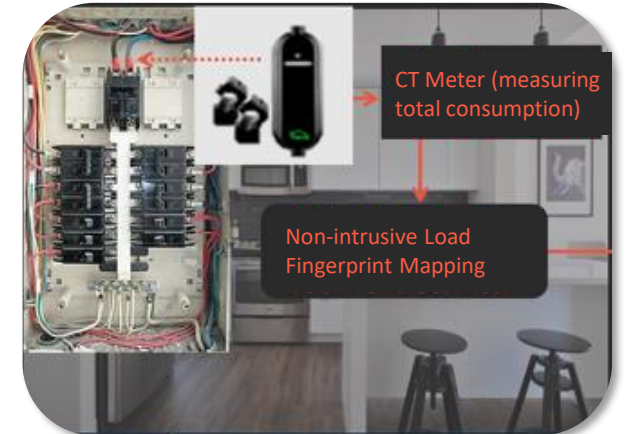
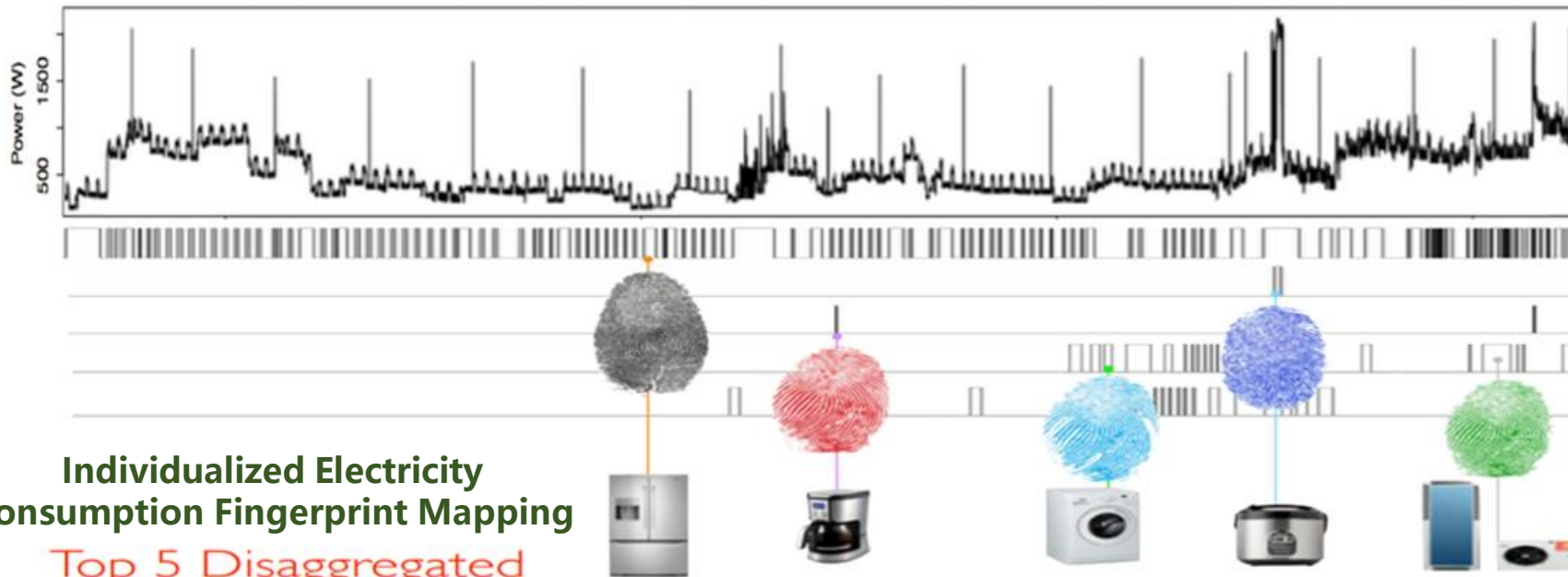
591 房屋交易

麗池香樹
新北節能E好宅

38.9萬/坪
45.1萬/坪
實價登錄 419萬
二手市場在售 3萬
在租物件 即將上線

Community-wise SEM

- Smart Energy Management – Energy Efficiency E Housekeeper to save energy in summer by **9%**
- Replaced with Level-1 appliances to save energy by **11-16%**
- Total energy saved by **20-25%**



Net-Zero Building Design Services + Developers

Design

Construction

Operation

Green building regulations

- ◆ Badge
- ◆ Energy Efficiency Labeling

Structure



Facilities



Interior

Appliances



Behavior



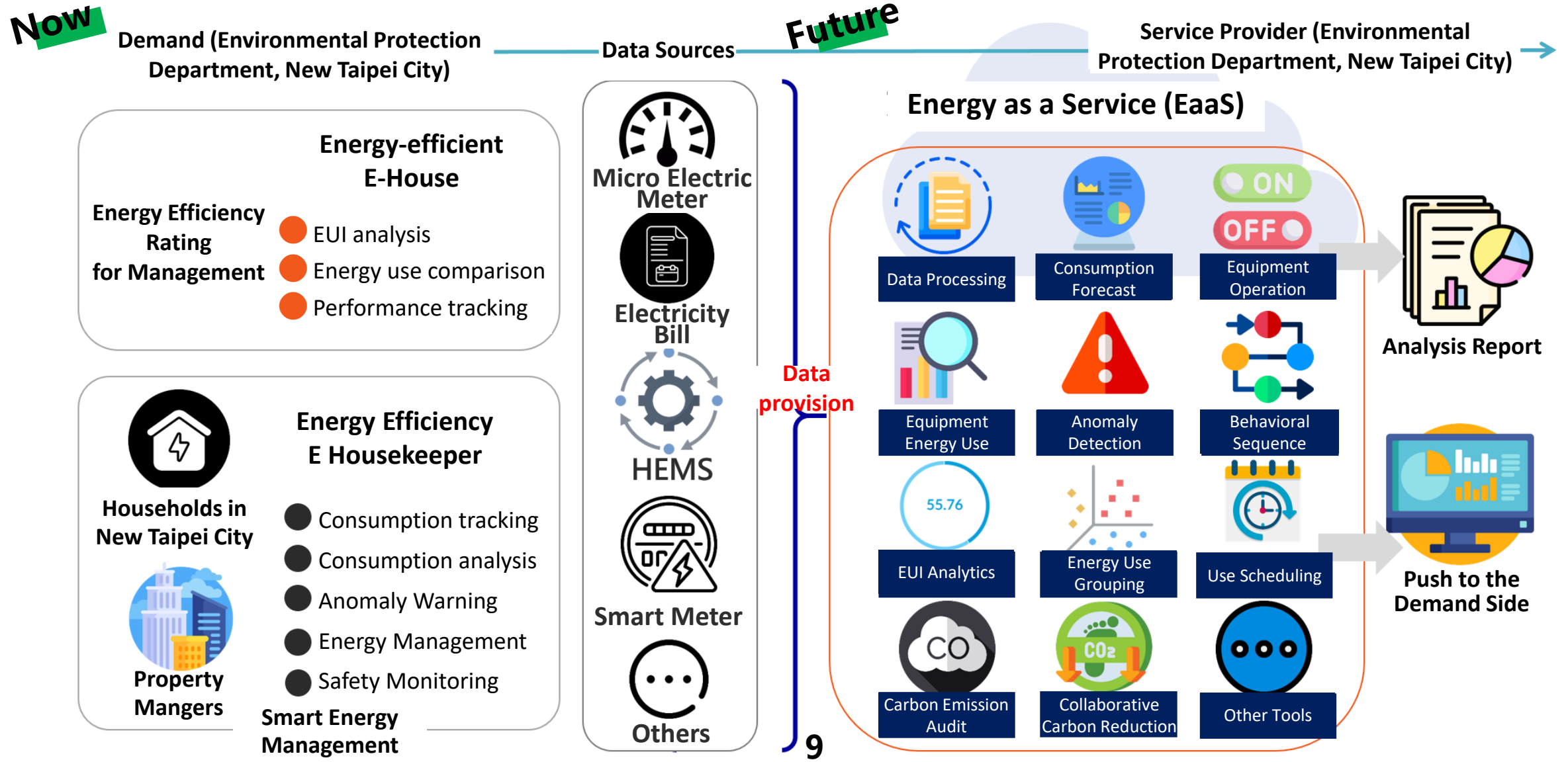
Central

New Taipei City

**Energy Efficiency Rating:
Energy-Efficient E House**

**Smart Energy Management:
Energy Efficiency E Housekeeper**

Public Service Cloud + Shared Analytics



Awards & Recognitions



CDP A List recognized



Government Service Award
from the Executive Yuan

THANK YOU



新北市政府

New Taipei City Government

