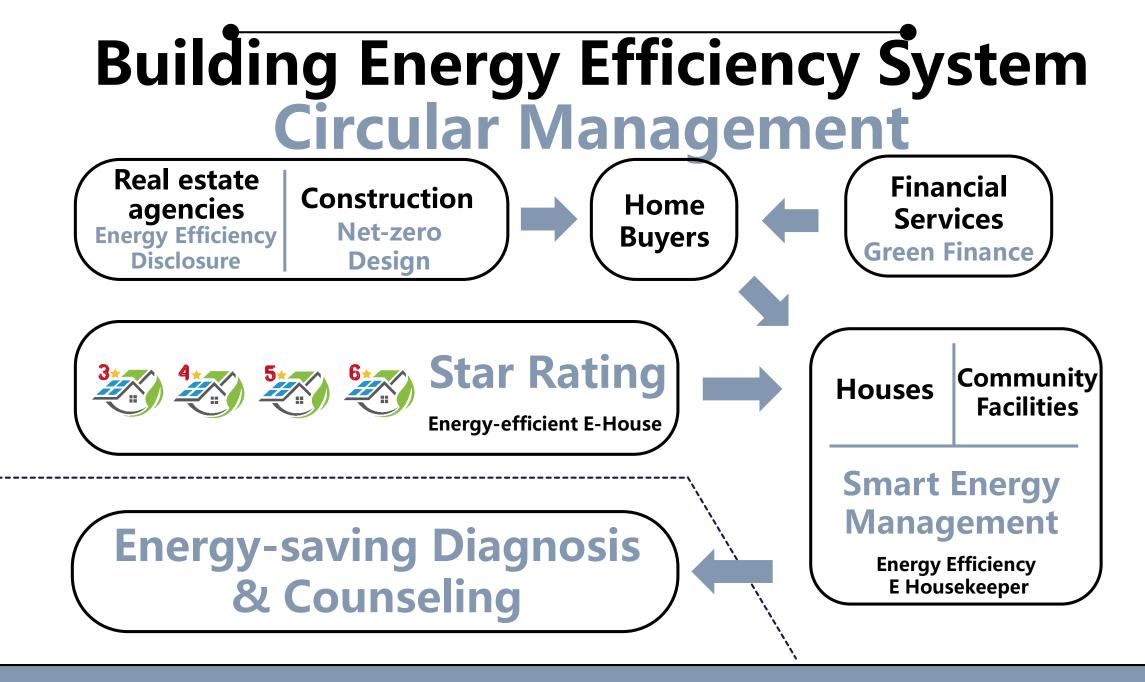
Smart Building Energy Management & Carbon Reduction

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

2050 Net-Zero Vision **GHG** Emissions **Climate Action White Paper** in New Taipei City published In Aug. 2022 by Sector **Transportation** Agriculture 0.49% 24.21% Waste 1.38% Industry **Building** 34.52% 39.41% 暨氣候行動白皮書 esidential 60% **Commercial 40** 2022.8

Towards a Net-Zero New Taipei City...

		20	25 20)30 20	35	2040 2	20,45 20	050
Energy-saving monitoring for buildings	Energy monitoring disclosure	For public buildings	For private buildings		 			
	Smart energy management	Energy efficiency rating for management	50% new buildings on smart energy management		All new buildings on SEM system	•	85% existing buildings at certain scale on SEM system	
transformation	Energy efficiency improvement for existing buildings		Regulations on the energy efficiency of power equipment in buildings		Level 1 rating for 50% existing buildings	5	Level 1+ rating for 509 existing buildings	
	Zero-carbon regulations for new buildings		Regulations on carbon neutrality for public buildings			Level 1+ rating for new buildings	•	
Zero-carbon electricity for buildings	Energy storage & energy creation for buildings		Mandatory green energy & energy storage installation for new buildings					
	Street light energy efficiency improvement		Energy efficiency up to 75%					
changes for	Green procurement		100% for public sector	100% for private sector				
public facilities	Energy efficiency management for gov agencies & schools	Energy efficiency improved by 10%						



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%	
Ener E E Energ Discle • Ratin	The set of	Smart E Manage Energy E E House • Electricity Consu Fingerprint Map • Proactive energy	ement fficiency keeper mption ping	ds	
	80% rgy Saved from Cmty Facilities) X 25% cilities % in the total consumption)		40% Saved from Households) X 75% 5 % in the total consumption)	= 50%(Total energy saved)	

E-House Buying Services + Real Estate Agencies

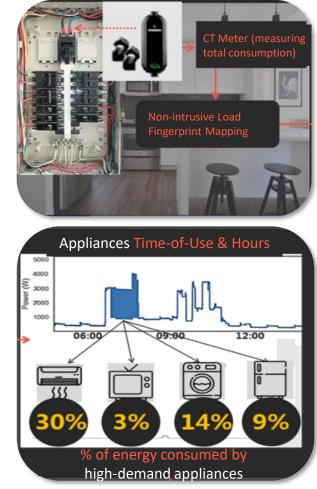
- E-House Star Rating disclosed on real estate agency websites
- Proactive promotion by the agents to involve communities

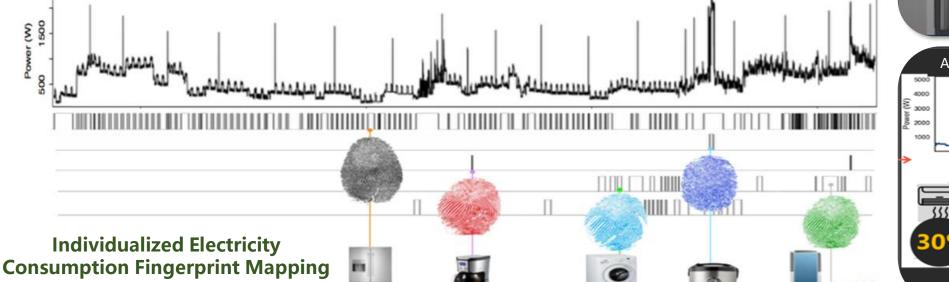


Community-wise SEM

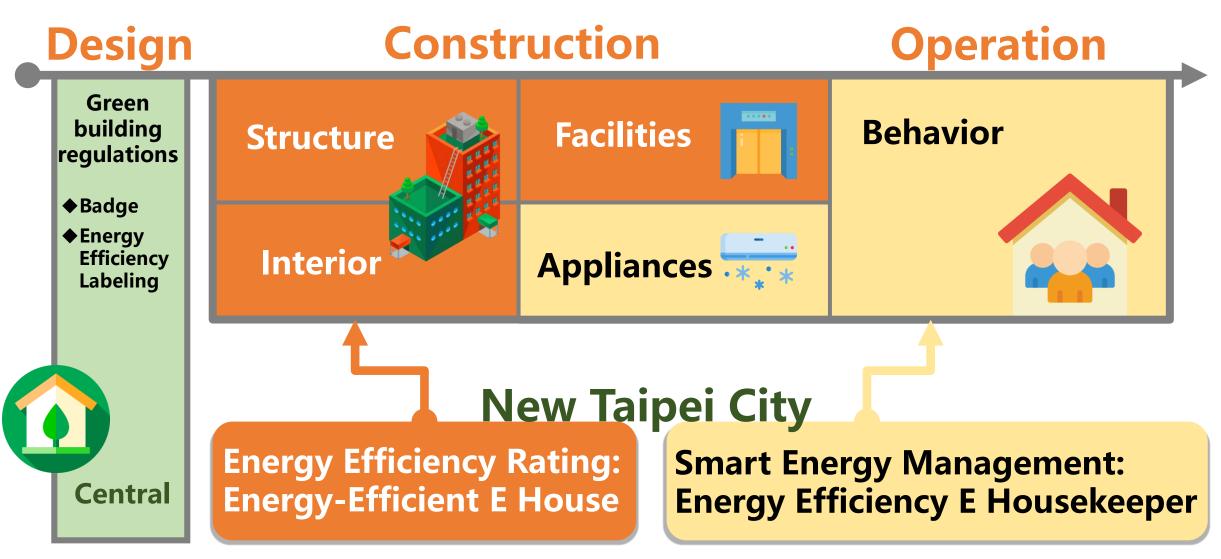
- Smart Energy Management Energy Efficiency E Housekeeper to save energy in summer by 9%
- Replaced with Level-1 appliances to save energy by <u>11-16%</u>
- Total energy saved by 20-25%

Top 5 Disaggregated

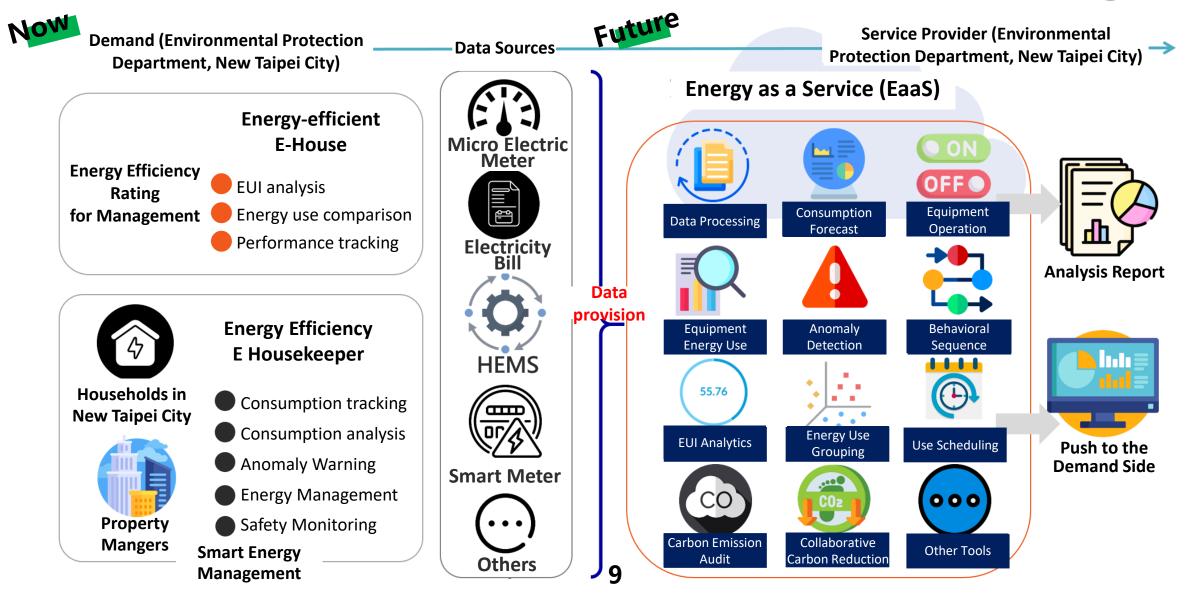




Net-Zero Building Design Services + Developers



Public Service Cloud +Shared Analytics



Awards & Recognitions





Government Service Award from the Executive Yuan

THANK YOU



