

# PV for Home Energy Solution



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## Residential PV system trends in Japan



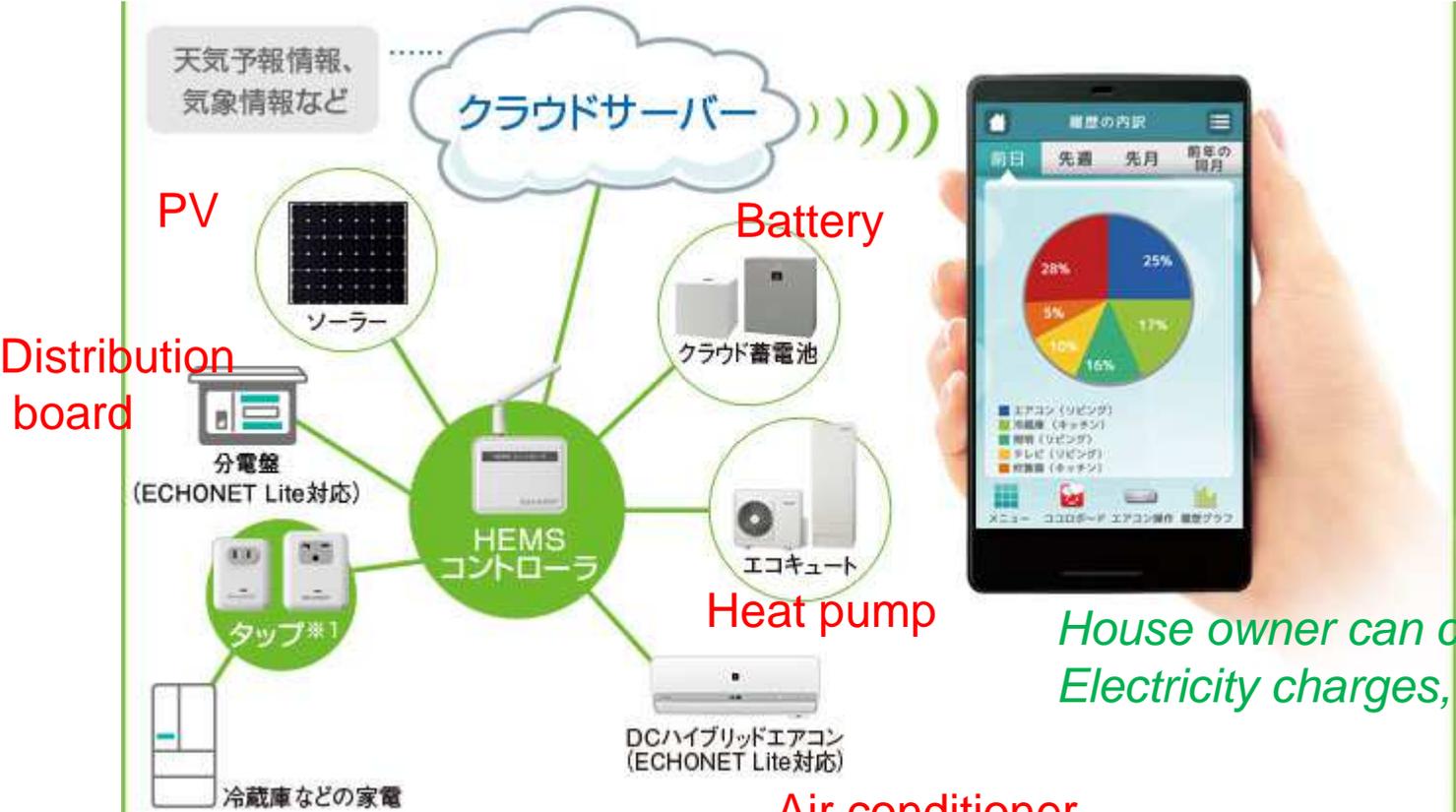
PV system providers offer some options for home energy solution

- PV + highly efficient heat pump
- PV + batteries (using subsidy for batteries)
- PV + fuel cells or gas co-generation
- PV +AC/DC-air conditioner (launched by Sharp in November 2015)

# Home energy solution proposed by Sharp



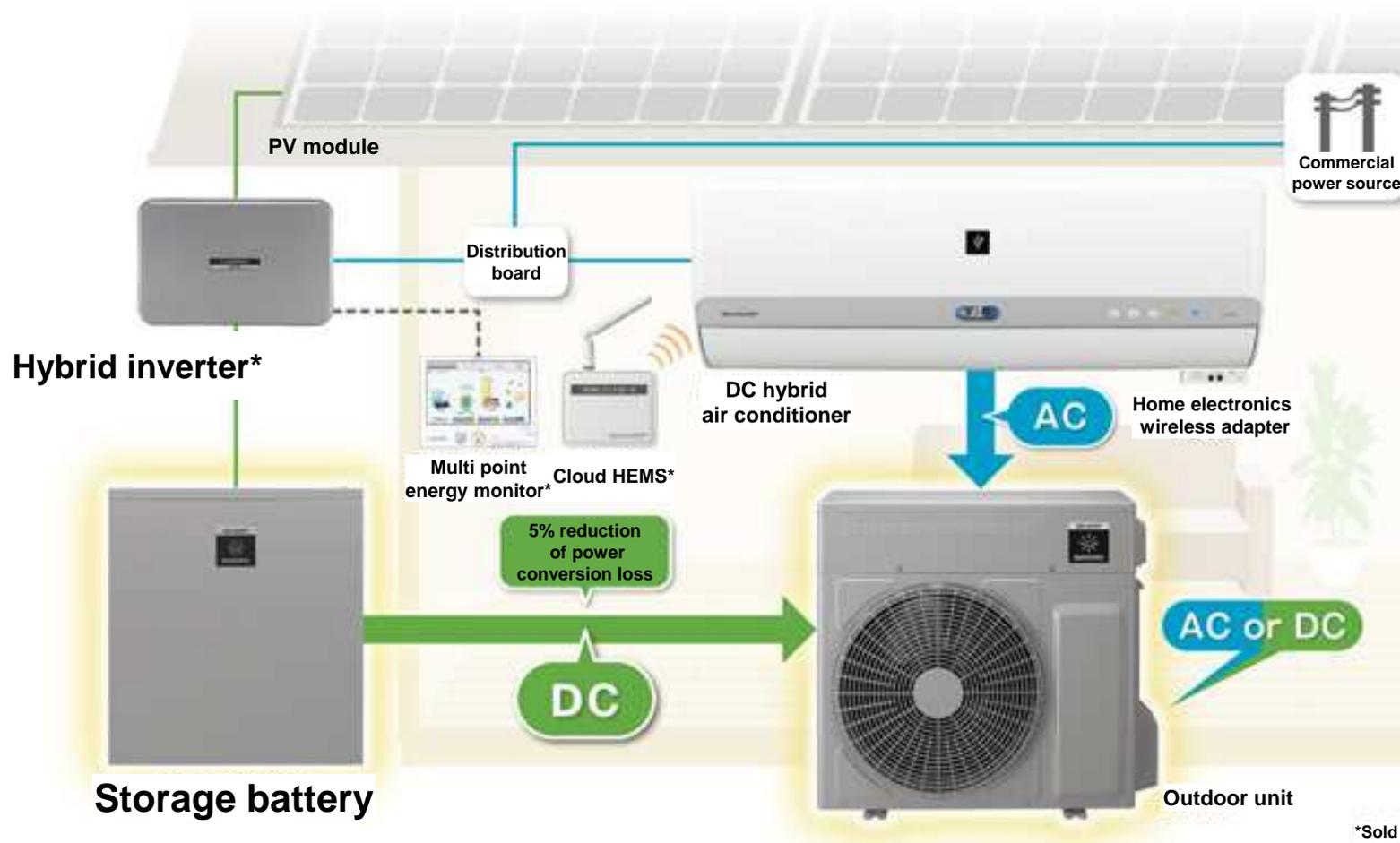
Cloud server: weather, insolation, etc.



House owner can check Electricity charges, savings, etc.

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# PV and AC air conditioner + batteries + HEMS



Target sales : 300 units / month  
240,000 JPY(1,950 Euro) can be annually saved  
EPT: depending on conditions

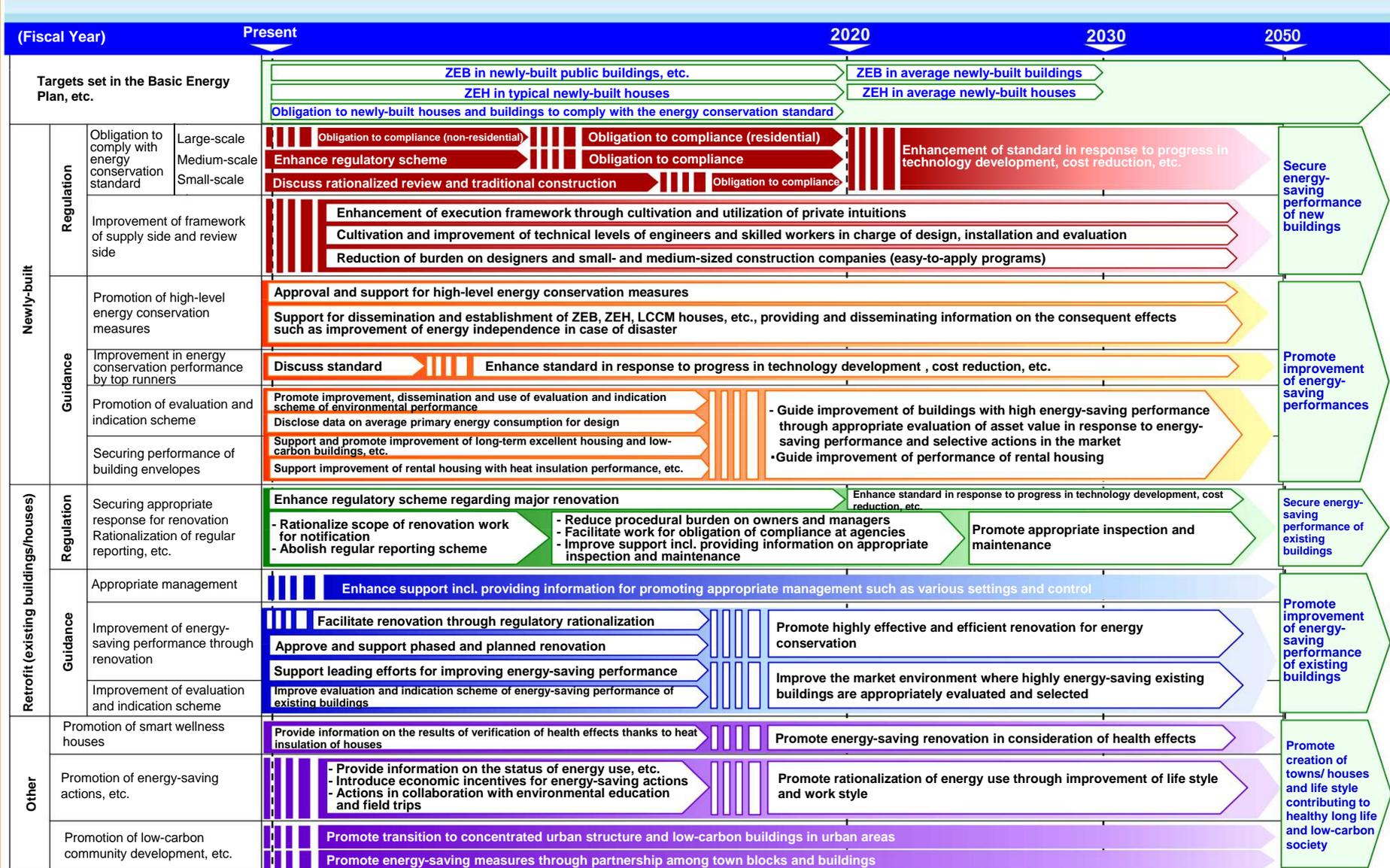
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# FIT for <10 kW PV system



Fiscal Year	FY 2015		FY 2016	
Condition for output curtailment		Required to equip a device to respond to output curtailment		Required to equip a device to respond to output curtailment
FIT for PV	33 Yen/kWh (29.2 cent/kWh)	35 Yen/kWh (30.9 cent/kWh)	31 Yen/kWh) (27.4 cent/kWh)	33 Yen/kWh (29.2 cent/kWh)
FIT for PV + $\alpha$ (batteries , fuel cells, co-generator	27 Yen/kWh (23.9 cent/kWh)	29 Yen/kWh (25.6 cents/kWh)	25 Yen/kWh (22.1 cent/kWh)	27 Yen/kWh (23.9 cent/kWh)

# Roadmap for energy efficiency for buildings



Source: Ministry of Land, Infrastructure and Transport



***Thank you for your kind  
attention !***

**感谢您的关注**

**끝까지 경청해 주셔서 감사합니다**

**ご清聴ありがとうございました**

Acknowledgement for the support of PVPS activities



New Energy and Industrial Technology  
Development Organization

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