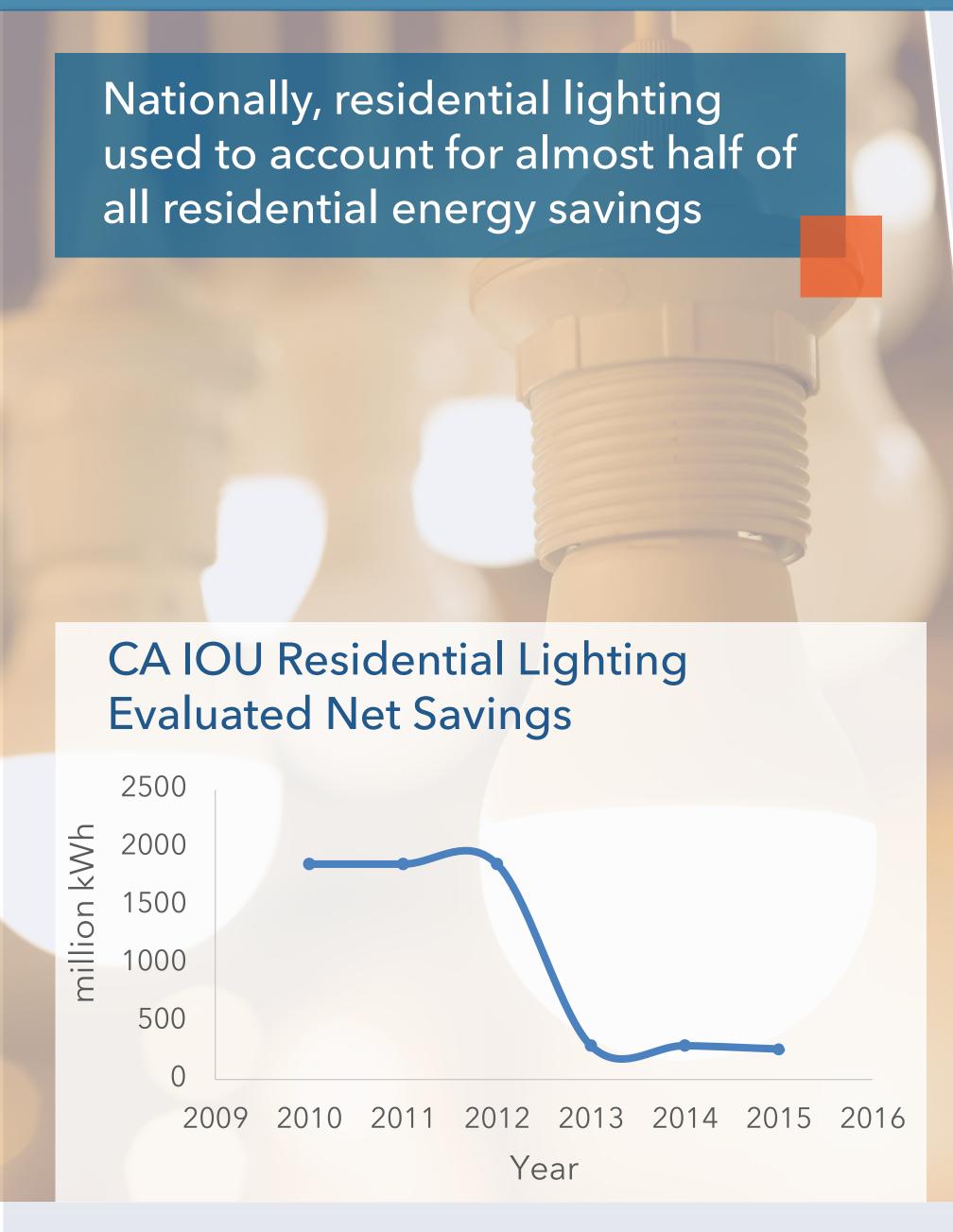
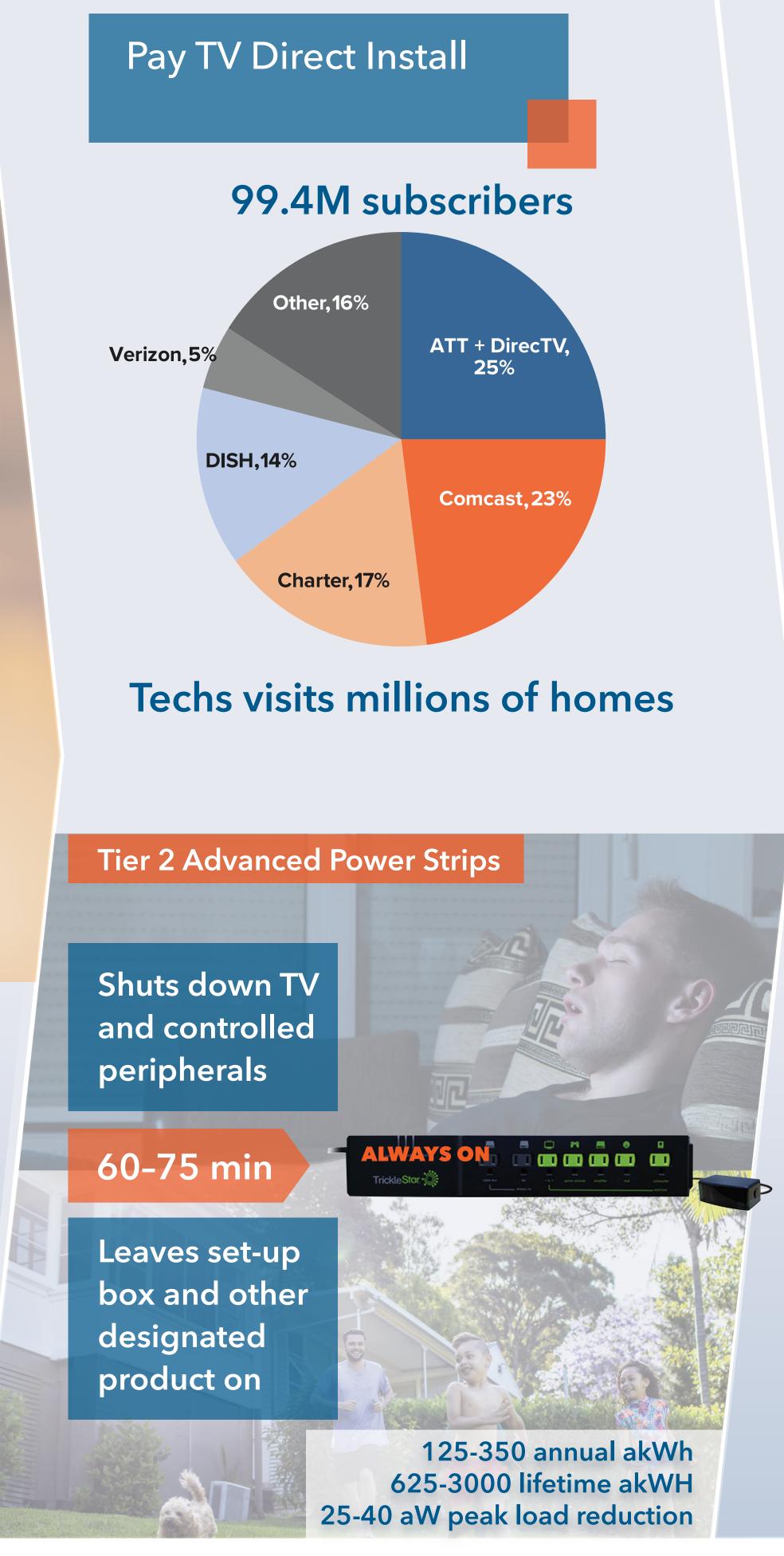
Loss of Lighting Savings Getting You Down? It's time to CHEER up!

Selena Bell Heise, Rosemary Mullane, and Stephen Bickel, D+R International and Alex Araiza, SMUD

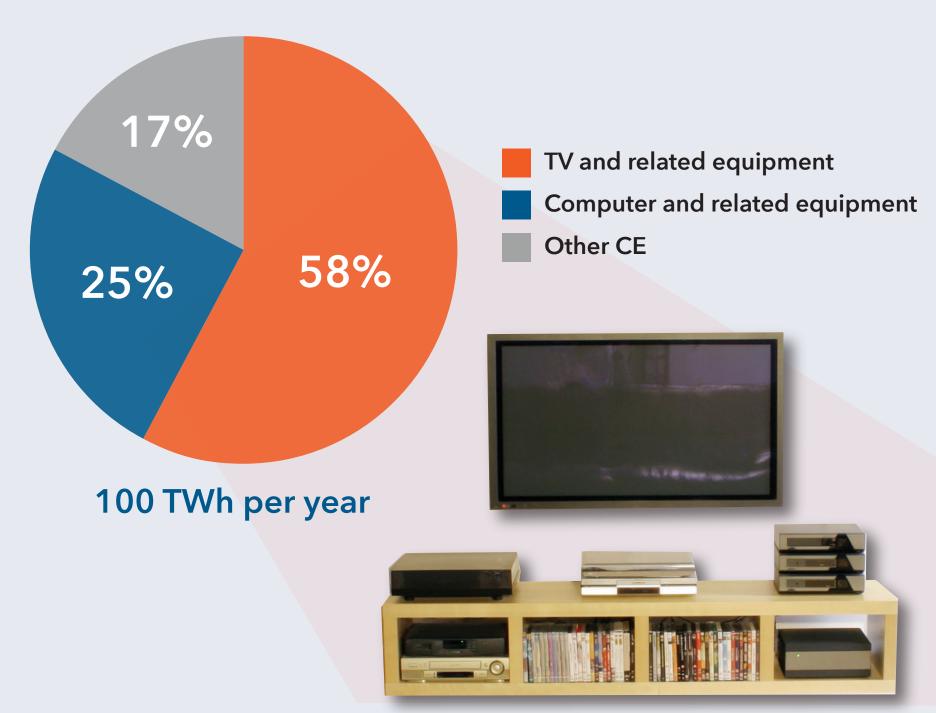


Where can we get scale at low cost to replace lighting?



Coalition for Home Electronics Energy Reduction (CHEER)





CHEER Because Everyone Wins

STAKEHOLDER VALUE PROPOSITION

Regulators, program sponsors and implementers	 Establish national EE market 1,260-2,000 MW peak load reduction by 2025 10-12.5 TWh
Pay-TV providers	 \$750 Million to \$2 billion Create an EE market alternative to regulation
Customers	• \$10-13 billion lifetime electricity cost savings



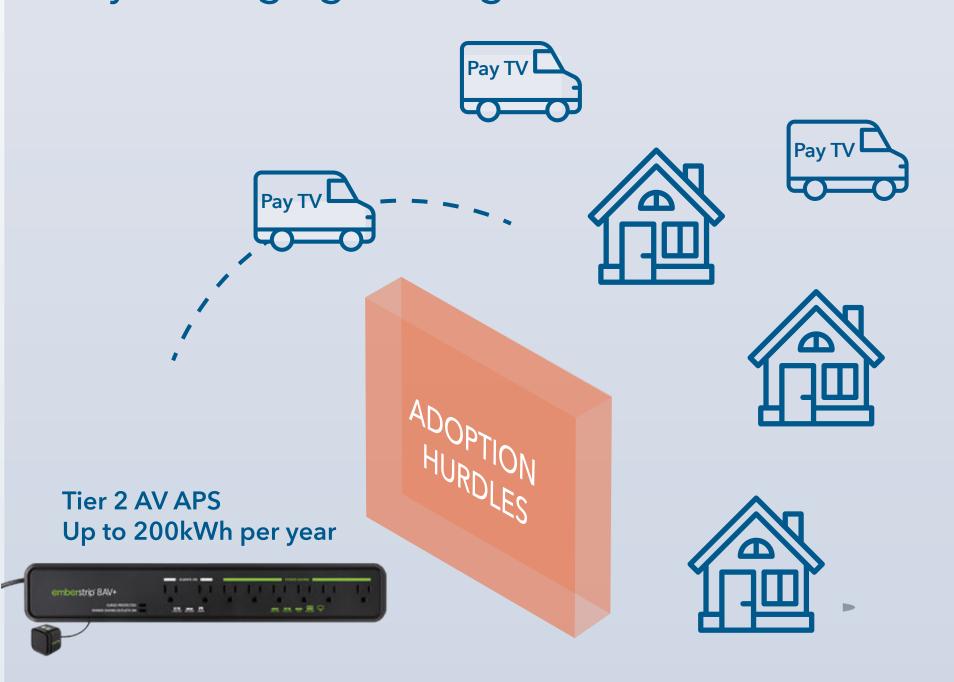


THE PILOT AND BEYOND

The Concept

Make complex EE improvement easy for customers

- At scale and
- Reasonable cost
- By leveraging existing networks



ISSUES AND CONCERNS	PAY-TV DIRECT INSTALL
High price	Free to customer
Limited availability	Distributed to millions
Risk of APS not or incorrectly installed	Professionally installed
Risk of customer confusion and removal	On-call customer service
High variable deemed savings	SMUD
Concern about customer acceptance	PILOT

12-month Pilot Structure



4,000 homes total
500 with WiFi loggers, 1 minute data

1,600 with no logging
2,000+ additional installations post stage gate



SMUD

2 Pay-TV providers2 Tier 2 APS manufacturersD+R



Energy and load reduction
Critical peak impacts
In-service rate
Estimated useful life

Pilot Goals

- o Prove concept to utilities and Pay-TV providers
- o Measure savings over extended population and time
- o Assess satisfaction with custom product
- o Expand CHEER to regional and national
- o Add Pay-TV providers and lower cost of savings

Progress

- ✓ Pay-TV partner recruited
- Custom products designed and tested
- ✓ DOE funded peer reviewer
- ✓ Launched CHEER

Other EE Products for PTV-DI













