## Pay As You Save® (PAYS®)

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- Fact #3: Unless measures are 100% publicly funded, customers must pay some or all of the upfront cost.
- Fact #4: Most customers leave cost-effective energy efficiency measures uninstalled.

### Huge Savings Are Left on the Table...

- Consumer barriers to choosing efficiency
  - Lack of information/trust in vendors
  - Lack of access to capital and/or debt
  - Uncertainty about future occupancy
  - Split incentives
    - Landlord/tenant
    - Builder/owner

# Market Intervention Strategies 30 years

- Technical assistance
  - Information/energy audits/arranging
- <u>Subsidize customer purchase</u>: lower total measure cost
  - Rebates (ratepayer funded)
  - Tax credits (taxpayer funded)
- Finance customer purchase: reduce first cost
  - Loans (incl. low and no interest)
  - Energy-efficient mortgages
  - Leases/On-bill financing
  - ESCo shared-savings
- Combinations: technical assistance, subsidy and financing

## A large and untapped resource remains...

- ACEEE Meta-study (2004)
  - Achievable potential = 24% electricity
- Inter-laboratory Working Group (2000)
  - 24% electricity savings achievable across U.S.
- NYSERDA (2003 & 2006)
  - NYS GHG reduction targets can be met by lowering electricity use by 11% (2012) and 14.1% (2022) at a cost of less than 3 cents/kWh; and yield \$4.5 9.1 billion in net economic benefits
  - 28% of forecast gas use economically displaceable by 2016

## **Public/Utility Programs Limited**

- State/utility programs to address the efficiency gap are good as far as they go...
  - "Iron ceiling" on funding
  - Legislatures have raided system benefit funds
  - Large up-front payments or debt
  - Many can't participate even with rebate assistance
  - High administrative/transaction costs
- It's not enough
  - At current weatherization expenditure levels, 100-150 years to treat all low-income units
  - Big savings opportunities missed because of persistent market barriers and lack of funding

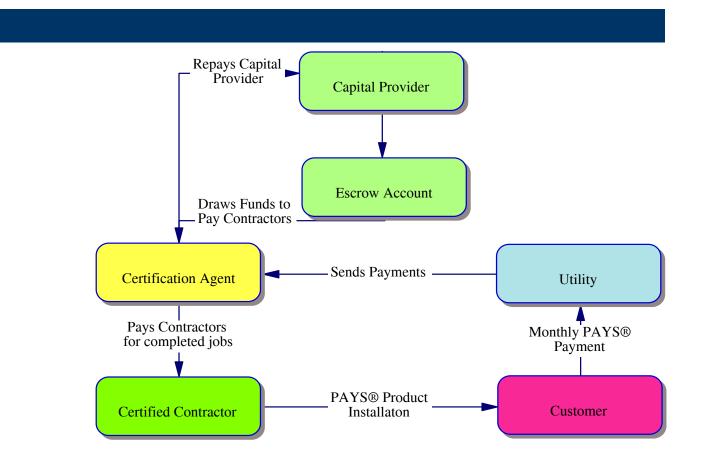
## The PAYS® Opportunity

- Concept originated in 1999 by Energy Efficiency Institute
- A market-based system where customers, vendors, and capital providers acting in their own interests produce unprecedented resource efficiency investment that is also in society's interest.

#### How PAYS® works...

- Customer selects (qualifying) measure.
- Measure installed at no cost to Customer.
- Customer pays tariffed charge on utility bill:
  - Measures certified to provide savings right away.
  - Estimated savings greater than payment.
  - DNP for non-pay just like any other utility tariff.
- Portable measures.
  - When customer leaves, take and pay balance.
- Permanent measures.
  - When customer leaves, charges "run with the meter."

#### How PAYS® works...



## More Desirable "Products"

- No upfront payment
- No credit checks, liens or hassles
- No new debt obligation
- Pay only while saving (and pay less by saving)
- Independent certification
- Tenants can make their dwelling more efficient without risking loss of investment

## **All Customers Can Participate**

- <u>Renters</u> -- landlord pays nothing; customer pays only while occupying a location.
- <u>Customers with limited resources</u> -- no liens, credit checks, or upfront payments required; the only obligation is to pay a lower bill.
- <u>Businesses</u> -- no debt obligation, no upfront payment, no commitment to location.
- <u>MUSH customers</u> -- agreeing to pay a lower monthly bill, so town vote, agency or board approval should not be required

## First PAYS® Installation - NH (2002)

- Town of Stratford (NH) street lighting change- out
  - \$13,050 to change and relocate 58 fixtures
  - \$6,292 annual savings
- Would pay for itself in 2 years, but...
  - Voters turned down project
  - Did not want to take on debt
- PAYS® did not require voter approval
  - Not a loan, but a utility bill
- "We couldn't have done it without PAYS®"

## **Kansas Pilot with PAYS® Elements**

- Residential pilot program (mostly single family)
- Commission approval December 20, 2007
- Landlords required to assume risk of measure failure – not PAYS<sup>®</sup>
- 234 audits, 47 buildings completed (6 rental); 98 rejections; 89 plans in pipeline; demand overwhelmed contractors 6 month or longer wait (8/1/08)

## Hawaii PAYS® Pilot

- PAYS® legislation -- 2005
- Solar hot water (SHW) heating pilot
- Commission approved 3 utilities to offer PAYS® tariff on June 29, 2007
- \$1,000 rebates and very high rates make SHW cost effective

### **State by State**

#### • System set up and operation

- One-time: system set up
  - tariff design and approval
  - billing system adjustments
  - set up third-party certification
  - find capital provider(s)
- <u>Ongoing</u>: operating and financing costs are built into PAYS® customers' charges

## **State by State**

#### • State Commission must approve PAYS® tariff:

- Defines measure eligibility and customers
- Specifies rules & responsibilities of vendors, utilities and customers
- Identifies Certification Agent and role
- Permits utility recovery of PAYS® bad debt like other bad debt\*

\* In reality, PAYS® bad debt MUCH lower than typical utility bad debt.

## **More Information**

PAYS America www.paysamerica.org Energy Efficiency Institute www.eeivt.com 802-879-8895