#### REAL LIFE EXPERIENCE: Moving Energy Efficiency Loans Off-Bill

Frank Rapley, Tennessee Valley Authority

Elizabeth Moore, Tennessee Valley Authority

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### Who we are



#### Nation's **largest public utility** Cover **80,000 square miles** and **9 million** people **154** local power companies



# Current programs

- Local Power Company (LPC) programs
- eScore / Self-Audit
- New Homes
- Heat Pump
- Manufactured Homes
- Smart Communities



## A Brief History

TVA's Residential Energy Efficiency Financing



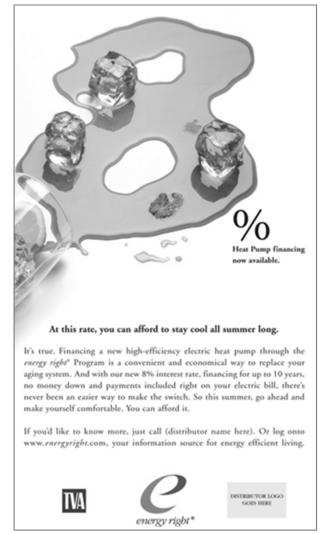
## TVA's enduring reputation

i X	<ul> <li>Provided energy efficiency loans for 35+ years</li> <li>HVAC equipment</li> <li>Weatherization</li> <li>Solar (1090a)</li> </ul>
	<ul> <li>Solar (1980s)</li> <li>Contractor network</li> <li>Rearryit and train to TV/A program standards</li> </ul>
	<ul> <li>Recruit and train to TVA program standards</li> <li>Periodic recertification</li> <li>Long-standing members</li> </ul>
	Advertising
×-	<ul> <li>Strong reputation and brand awareness</li> </ul>



#### Flagship Retrofit Offer: In-Home Energy Evaluation







## On-Bill Financing

Loans support EnergyRight <sup>®</sup> Solutions programs
<ul><li>eScore (current home audit program)</li><li>Heat Pump Program</li></ul>
Originally, TVA funded & managed loans
<ul> <li>Managed in-house with finance and field staff</li> </ul>
Introduced 3 <sup>rd</sup> party financing in 1997
<ul> <li>Sold portfolio to 3<sup>rd</sup> party bank</li> <li>TVA acts as guarantor</li> <li>LPCs send payments to 3<sup>rd</sup> party bank, as administrator</li> <li>TVA sells new loans at month end</li> <li>If a loan goes bad, TVA "repurchases" the loan</li> </ul>





**\$637 Million** Loans funded over 18 years



**127** LPCs with active loan balances

## On-Bill Statistics



**\$35 Million** Average total loan amount per year



**\$184 Million** Outstanding balance as of 2015



**4,700** Average number of loans per year



**\$18 Million** Net write-offs over 18 years

Through 9/30/2015



#### Loan Offering Profile

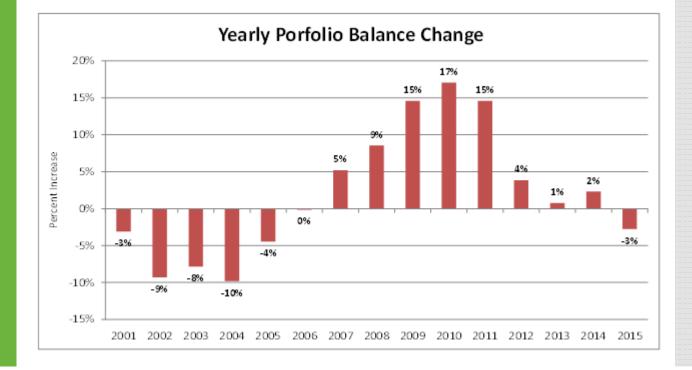
What do we Finance?	
<ul><li>Heat Pump Systems</li><li>Home Weatherization</li></ul>	
Terms/Conditions/Underwriting	
<ul> <li>10-Year term</li> <li>Max \$15k</li> </ul>	
<ul> <li>6% and 8% rates (depending on items financed)</li> <li>Favorable utility payment history</li> </ul>	
Credit score     Power company role	
Originator	
Servicer     TVA role	
Sets program policy and procedures	)

• Guarantor



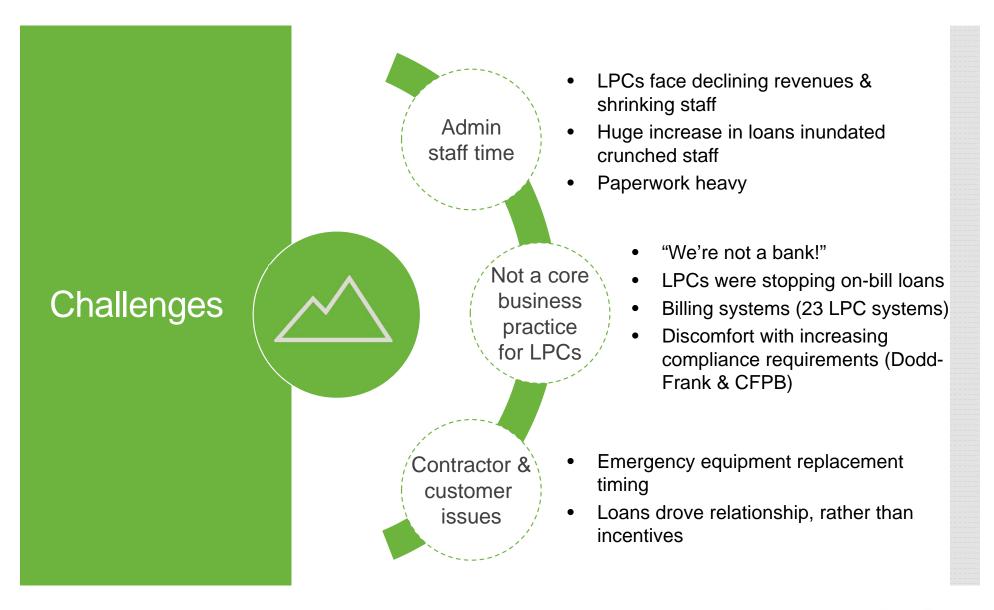
#### Strong loan growth

- EnergyRight<sup>®</sup> loan fund increased 67% over 5-year period
- Restricted credit markets helped push EnergyRight<sup>®</sup> loans



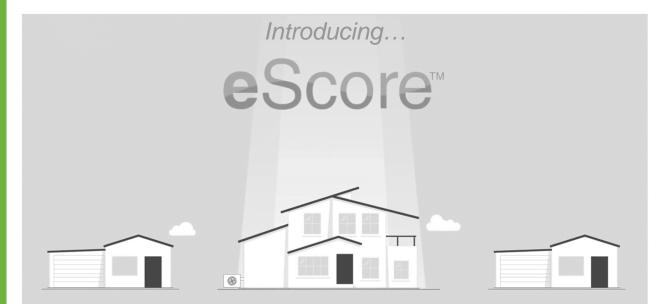
## On-Bill Statistics







To top it off, we needed to redesign our retrofit offer to be more cost-effective







Eliminate pre-evaluation barrier Reduce paperwork

Simplify reporting

Improve value proposition for contractors

Engage residents past 'one and done'

**Increase** transparency



#### How does eScore work?



## See how easy it can be to **live comfortably**.

Whatever the weather brings, you'll be ready. Make your home the best it can be. Visit 2eScore.com to find out how energy efficient your home is and what you can do to improve it. With a high eScore you can afford to live comfortably.

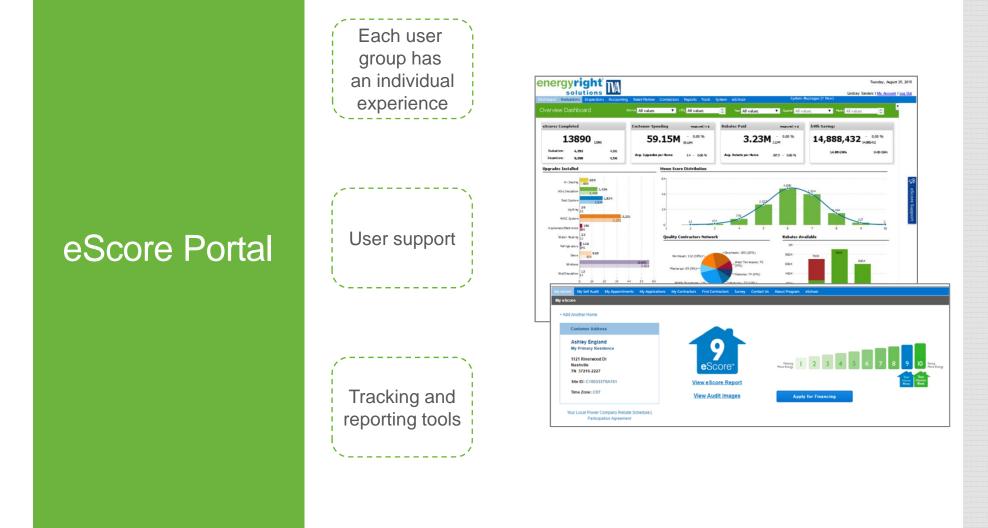




## Multiple Onramps









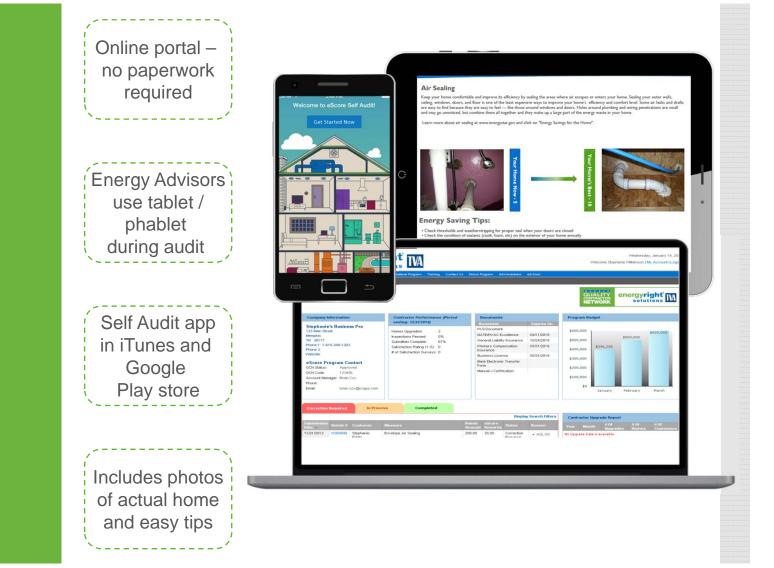
#### eScorecard







## eScore Technology





#### Was it finally time to introduce Off-Bill?





#### Learned from past experiences

The Search

- Need simple applicant screening requirements
- No additional contractor screening requirements
- Contractors need to be able to market easily

TVA Treasury experts engaged lending partners

- With +\$25B in managed debt, TVA has strong network of banks
- 1st response not great after credit market crunch banks getting out of the small loan business

Talked to specialized energy efficiency lending companies

- Some obstacles from past off-bill attempt
- No bad options, but unsure of success with TVA LPCs/contractors



#### Reviewed 7 Off-Bill options from 4 companies - All loans must be reported as jobs in eScore No loan guarantee from TVA No burden on LPCs - Speed to market - Terms/requirements need to be similar to existing On-**Bill option** Must integrate with new eScore program The Criteria - Must be available to all participants in the TVA service area Accommodate returning customers to make energy improvements by adding or refinancing existing loan Align with streamlined eScore program



## The Migration

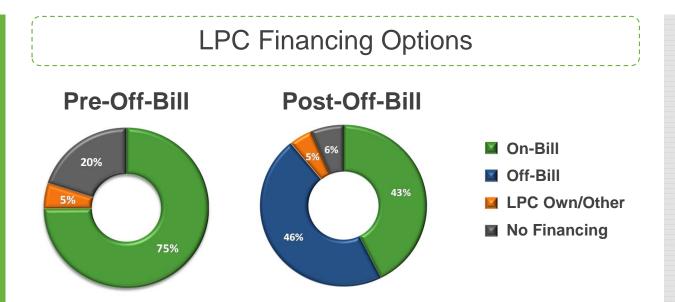


#### Four mindsets to navigate

- Early adopters excited for an off-bill option and to no longer deal with headaches of on-bill administration
- Resource limited looking to reduce burden on staff, budgets
- Anxious eager to provide a financing option to customers, but worried about anything new
- Change Averse stayed with old, familiar programs/processes – resistant to off-bill



#### The Results



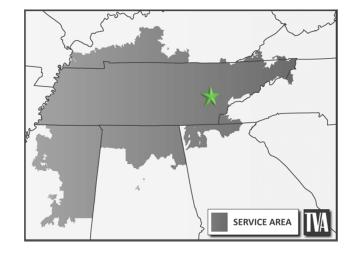
Financing Model	Pre-Off-Bill	Post-Off-Bill	Change
On-Bill	116	65	(51)
Off-Bill	0	75	75
Own/Other Financing	8	7	(1)
No Financing	31	9	(22)
Total	155	155	



How does Vanderbilt Mortgage and Finance Off-Bill work?

# **Vanderbilt** Mortgage and Finance, Inc.

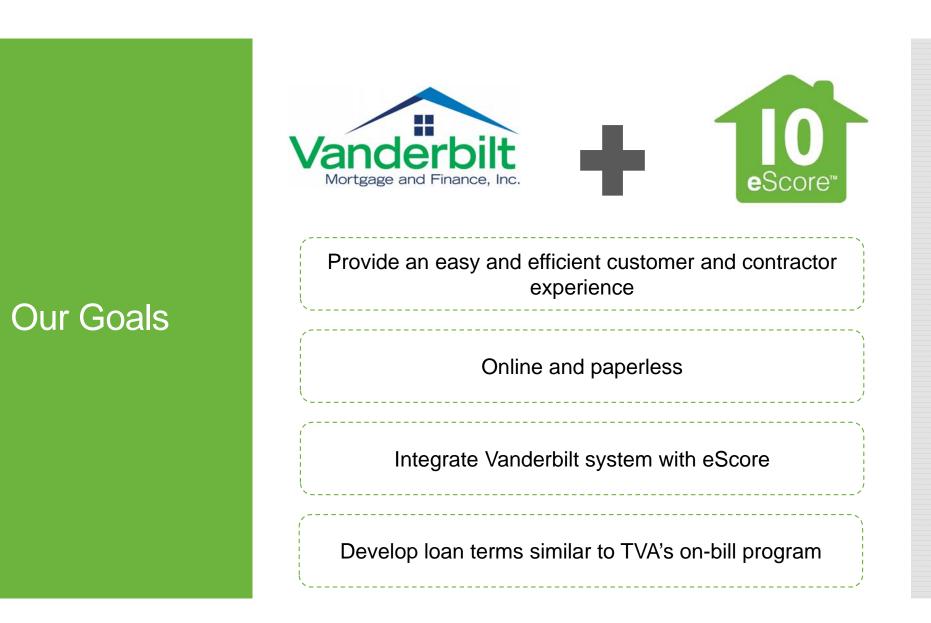




Owned by **Berkshire Hathaway** Member of the **Clayton Homes** family of companies Over **40 years** of lending experience Located **in TVA service area** Financing available **nationwide** 









#### A simple approach to financing

Loan Information				
Minimum Loan	\$2,500*			
Maximum Loan	\$15,000			
Term	Up to 10 years <sup>1</sup>			
Annual Interest Rate	9.25% Fixed			
Origination Fee	None			
Application Fee	None			
Prepayment Penalty	None			
No gimmicks – easy to understand terms All approvals valid up to \$15,000				
All loans eligible for 10 year term				

9.25% • 10 Year Term				
Sample Loan Amount	Monthly Payment			
\$5,000	\$64.02			
\$7,000	\$89.62			
\$8,000	\$102.43			
\$10,000	\$128.03			
\$12,000	\$153.61			
\$15,000	\$192.05			
10 year term – lower				

10 year term = lower monthly payments

Fixed rate

\*\$3,001 in the state of GA <sup>1</sup>Minimum term 5 years

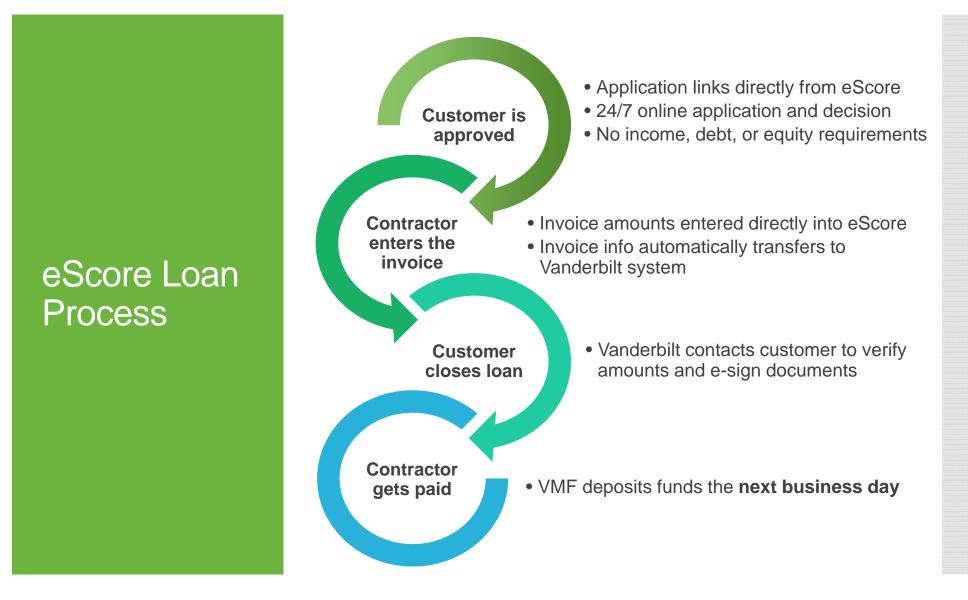
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We fit the eScore program – don't make contractors fit us

Integrated with eScore – seamless process
No additional enrollment forms or paperwork
All eScore upgrades are eligible for financing – even items not eligible for rebates, including gas units







#### Application links directly from www.2escore.com





	Please Provide the following information: * Fields are required. Name:	1
Vanderbilt	Jon Snow 🔻	
wortgage and Pinance, inc.	First* Middle Last* Suffix	
LPC W	Address of Property: 301 Wall Ave Unit # Street #' Street Name' Street Type Unit # Knoxville TN V 37302 V City' State' Zip * County' Is this also your mailing address? Yes V Are you the owner? Yes V This property is my Primary Residence V Is this a manufactured home? No V	
	Contact:	
	Please provide at least two separate phone numbers.	
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Vanderbilt	© 2016 - Vanderbilt Mortgage and Finance, Inc. All Rights Reserved	ore <sup>.</sup>



#### Electronic signature keeps process paperless

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#### Instant credit decision is generated

pre Info	Welcome, Jon. Manage Account   Log Out
Vanderbilt Mortgage and France, Inc.	Congratulations, Jon Snow!
	You have been approved for a loan of up to \$15,000* to make energy-efficient home improvements in accordance with the Tennessee Valley Authority's eScore rebate program. Your Approval ID is 3755326.
	Please contact a member of the TVA Quality Contractor Network to let them know about your approval and get started on your energy upgrades.
LPC J	<ul> <li>Interest Rate: 9.25% fixed</li> <li>5-10 year (60-120 months) loan terms available**</li> <li>Monthly payment amount based on term - Calculate your payment</li> <li>Approval only valid if applicant is record owner of property where energy efficient upgrades are completed</li> <li>Approval valid for 90 days</li> </ul>
	<ul> <li>Minimum loan requirement of \$2,500 (\$3,001 in the state of Georgia)</li> </ul>
10	No prepayment penalties I acknowledge receipt of this approval
eScore*	What Happens Next?
landerbilt	© 2016 - Vanderbilt Mortgage and Finance, Inc. All Rights Reserved



#### Online Closing

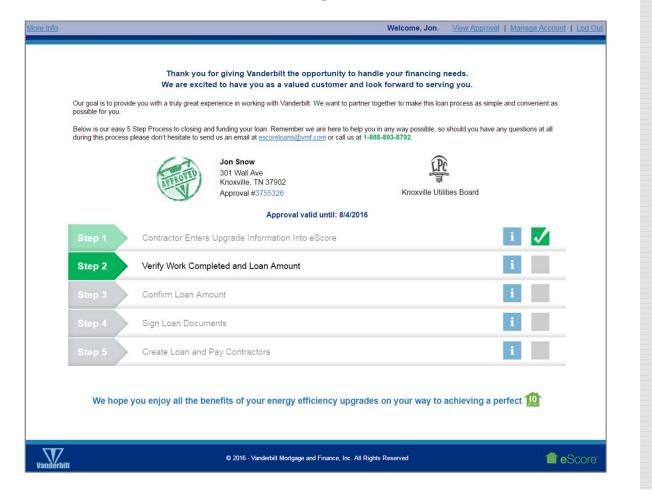
#### Customer receives automatic notification to begin closing process at www.vanderbiltescore.com



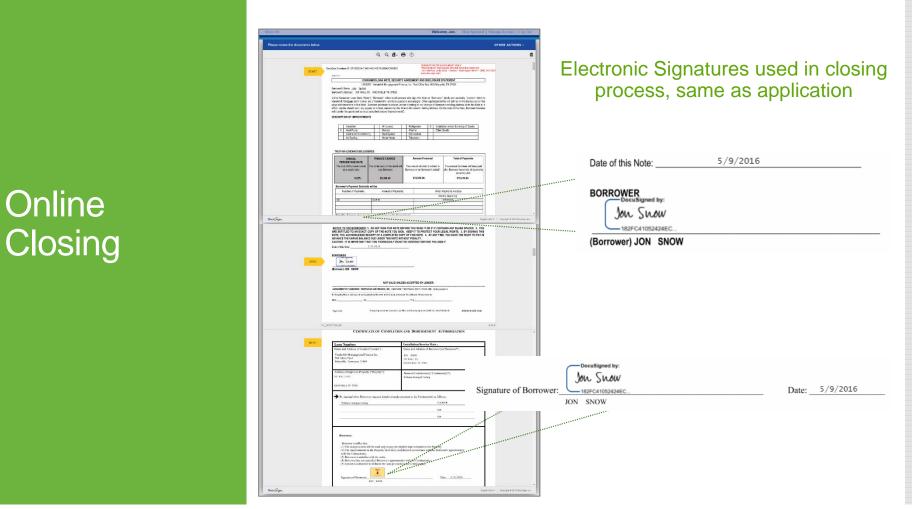


#### Online Closing

#### Loan Closing Process







#### **E-Sign Documents**



## Online Closing

#### Vanderbilt pays contractor directly

	Thank you for giving Vanderbilt the opportun We are excited to have you as a valued custon		
Our goal is to provide as possible for you.	you with a truly great experience in working with Vanderbilt. We wa	int to partner together to make this loan proce	ss as simple and convenient
	tep Process to closing and funding your loan. Remember we are he ease don't hesitate to send us an email at escoreloans@vmf.com or		you have any questions at a
	Jon Snow	T DA	_
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	Your loan closing is complete. Your first payment w your loan and pay your contractor(s). After reviewin logout or close your browser. Thank you for choosi	ng the information on this page, you may	i 🗸
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you can log in us	ate is 7/1/2016. We will mail you a payment book to get you started sing the same username/password you have used throughout this p ns, as well as set up automatic draft payments. We are excited to he	rocess. Here, you can take advantage of our I	REE and Secure online



#### Vanderbilt Advantages

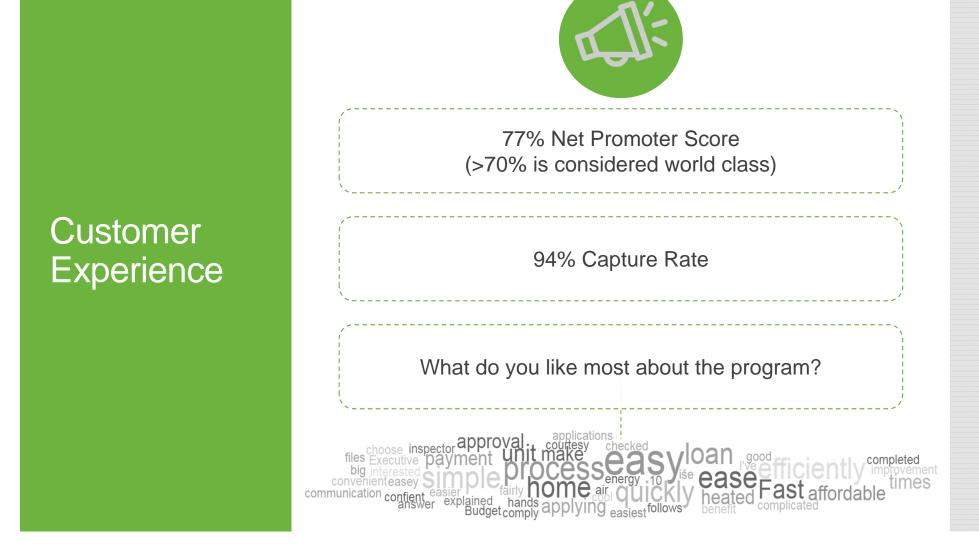
Entire loan process is simple and easy

- Online loan application is available 24 hours a day / 365 days a year
- Instant credit decisions
- All approvals valid up to \$15,000
- No extra paperwork for contractors
- Online loan closing totally paperless
- Fast payment directly to contractor

#### Focus on Customer Experience

- Online process without sacrificing service team members available for customer assistance
- Customer can call Vanderbilt to complete a phone application and still receive an instant credit decision





energyright solutions

Vanderbilt offers a fixed interest rate for the life of the loan

- Rate won't go up if not paid off in a shortened period of time
- Rate won't go up if customer is late

#### No introductory or teaser rates

 Some companies offer teaser rates that skyrocket after the introductory period

#### The "fine print" from a 0% interest promotion:

No Interest if Paid in Full with monthly payments If the purchase balance is not paid in full within the special terms date at a rate of 28.99%. This special terms promotion may be offered for periods of 6-18 months. This special terms promotion will be identified on your statement as "NO INT IF PD IN FULL." The Special Terms End Date will disclose the duration of the special terms.





#### Loan Comparison – 0% for 12 months

Lender	Vanderbilt	Comp
Initial Interest Rate	9.25%	0%
Rate after 12 months	9.25%	28.99%
Buy Down %	0%	4.25%
Invoice Amount	\$8,000	\$8,000
Buy Down Fee	\$0	\$340
Total*	\$8,000	\$8,340
Min Monthly Payment to pay off in 12 months	\$700.54	\$695.00

\* If buy down fee is passed along to customer

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#### No Contractor Buy Down Fees

There is no charge to the contractor for this loan

No complicated buy down calculations

Some companies charge fees to offer lower rates – Fees passed along to customer? Fees come out of contractor's profit?

A Vanderbilt customer is like having a cash-paying customer



#### Loan Comparison – with Buy Down Fees

Lender	Vanderbilt	Comp
Interest Rate	9.25%	7.99%
Term	10 years	10 years
Buy Down %	0%	7.35%
Invoice Amount	\$8,000	\$8,000
Buy Down Fee	\$0	\$588
Total*	\$8,000	\$8,588
Monthly Payment	\$102.43	\$104.15

\* If buy down fee is passed along to customer

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## Questions?

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