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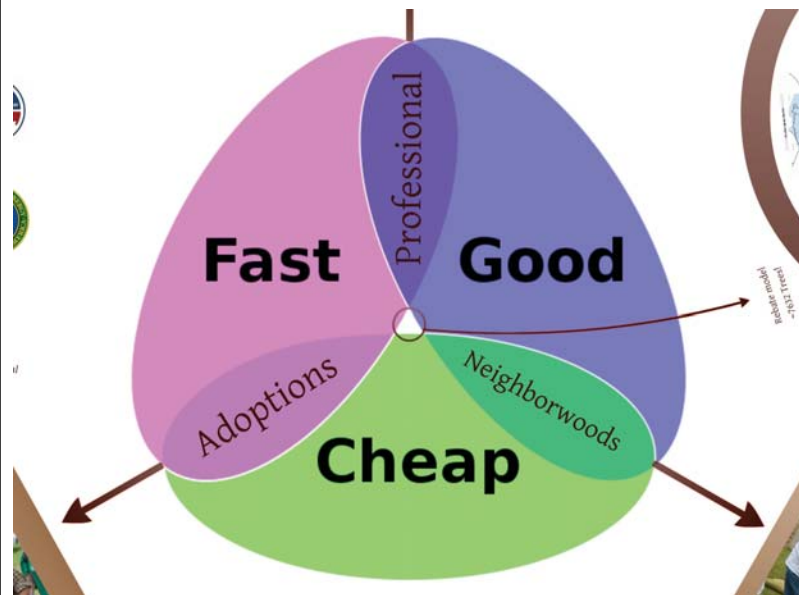
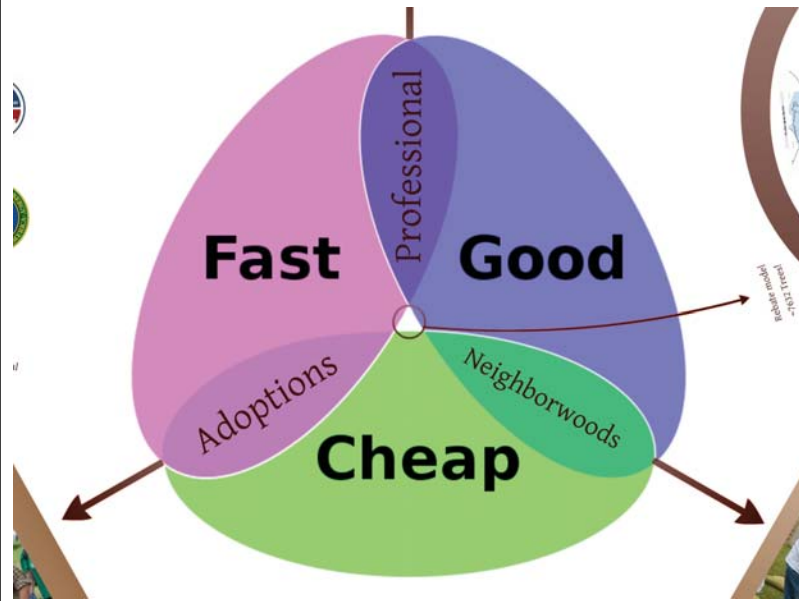
Trees for Energy Savings



Energy Efficiency
 Conservation Block Grant -
 \$492k

Priorities

- save energy
- support/create jobs
- accessible
- buy in
- verifiable
- repeatable

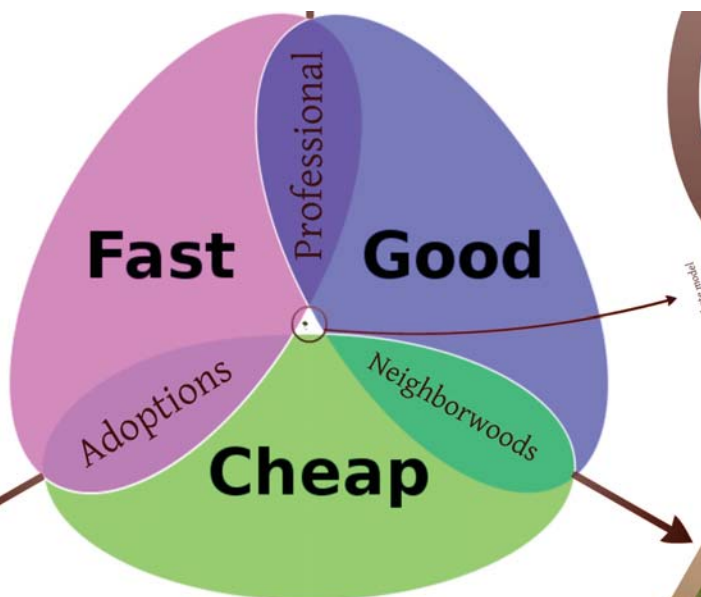
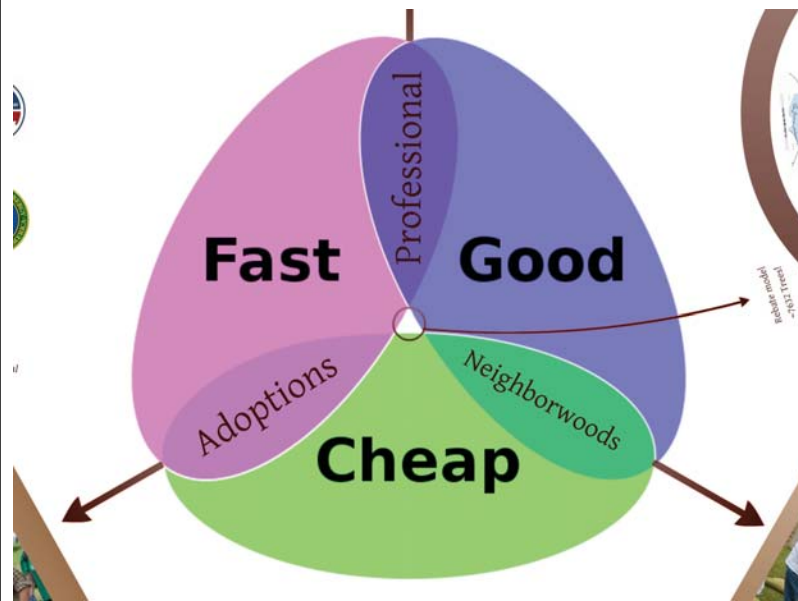




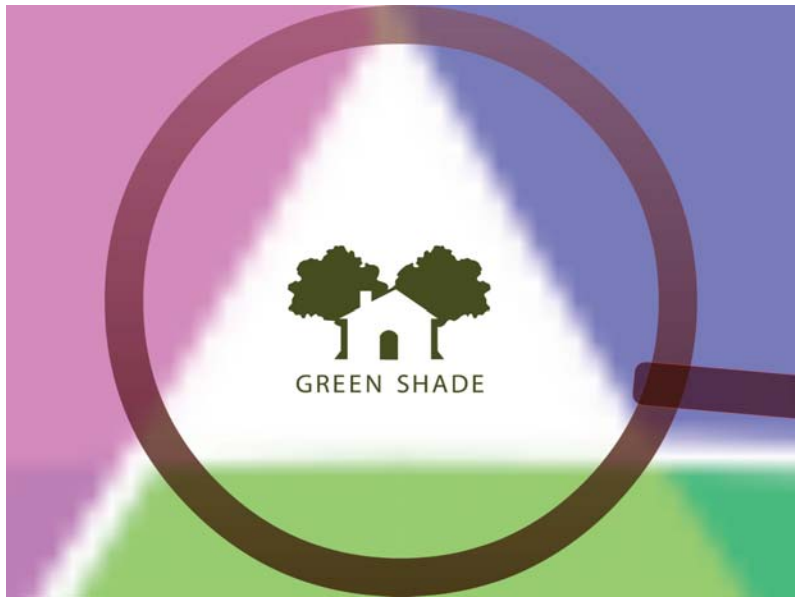
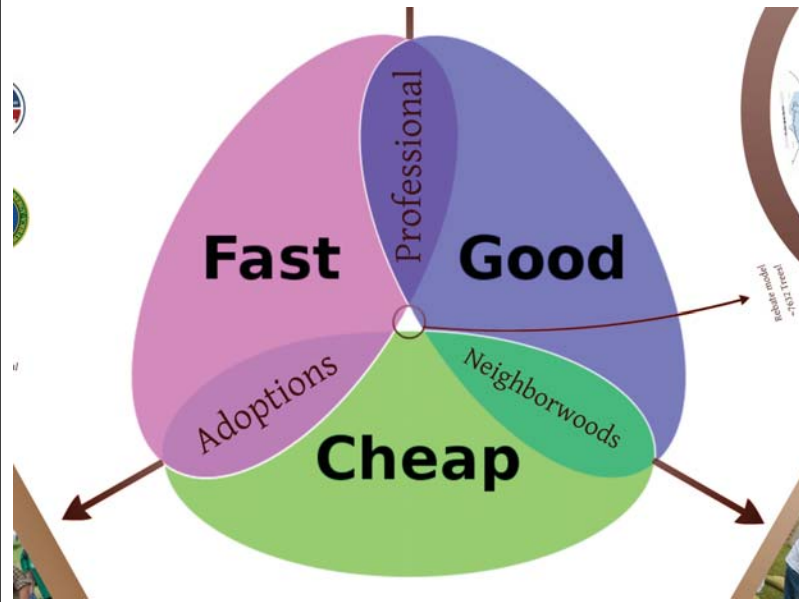
First Proposal
~2000 #15 Trees



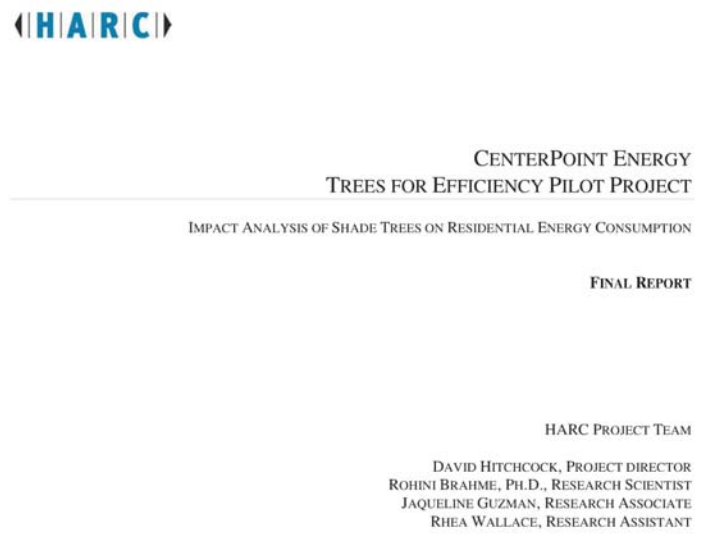
Second proposal
~4500 #5 Trees



Third proposal
~6000 trees
bid of \$65/#5



Rebate model
~7632 Trees!



PREPARED BY
HOUSTON ADVANCED RESEARCH CENTER
THE WOODLANDS, TEXAS 77381

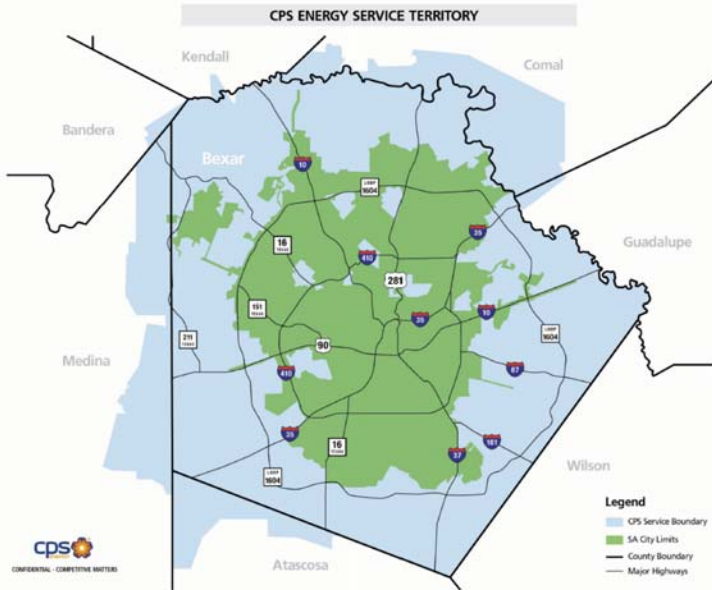
PREPARED FOR
GOOD COMPANY ASSOCIATES
AUSTIN, TEXAS

NOVEMBER 10, 2006

Summary Table
Single-Family Residential Estimated Energy Impacts
Over a 30-year period for one shade tree in the Houston area

By Location and Total	Impact Amount
30-Year kWh Savings	
West of house	5,784
East of house	5,191
South of house	4,467
North of house	1,465
West/East/South/North of House	4,227
West/East/South of House	5,147
Maximum Peak kW Reduction (at Year 24)	
West of house	0.1621
East of house	0.0175
South of house	0.0203
North of house	0.0092
West/East/South/North of House	0.0522
West/East/South of House	0.0666

Based on the average building energy impacts over a 30-year period for a tree...



Save on your energy bill and add beauty to your home or business by using trees to shade your property and qualify for a **\$50 rebate.**

To apply for this program, fill out application provided on the brochure and mail original copies (not for trees purchased following date of purchase) container set, variety, nursery name and address. Qualifying trees must be purchased beginning on program start date. When selecting trees, please consider diversity to minimize possible pest and disease problems.

PROGRAM STARTS
October 1, 2011

APPLICATIONS DUE BY
May 15, 2012

PLANT A TREE. SAVE ENERGY. SAVE MONEY.

Not only are trees aesthetically pleasing, they also increase property value, provide cooling shade to your home's interior and exterior, reduce pollutants from the air, reduce groundwater runoff and improve the environment for a sustainable future.

TREES TO CHOOSE FROM

Follow these guidelines to achieve maximum energy savings, protect your shade and cool opening when designing your site plan.

LOCATION

- Plant trees for maximum energy savings. Trees must be planted within 10 to 15 feet of an air conditioned building on the west, south, and east sides.
- Locate trees for maximum shade with other shade trees or shrubs, an overhanging porch, awning, etc.
- Plant trees to ensure clear lines of sight for traffic.
- Do not locate trees within utility easements, trees must be planted 20 ft away from overhead utility lines.

GREEN SPACE REBATE APPLICATION

REBATE FORM

1. Name of CPS Energy Customer: _____

2. Property address: _____

3. Tree species and size: _____

4. Tree size: _____

5. Tree type: _____

6. Tree growth rate: _____

7. Tree water needs: _____

8. Tree location: _____

9. Tree age: _____

10. Tree cost: _____

11. Tree nursery name and address: _____

12. Tree purchase date: _____

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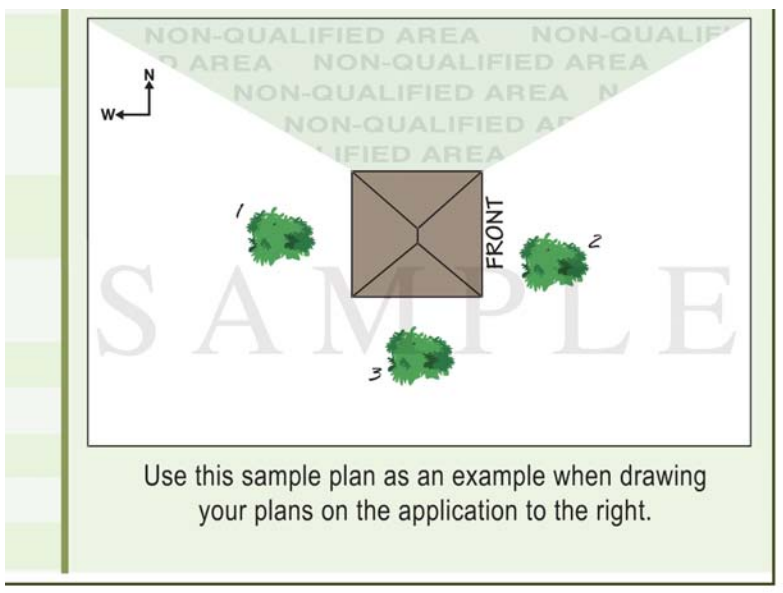
730. Tree purchase contract: _____

73

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le: Shumard Red Oak, Bald Cypress, Big Tooth Maple, Sierra Red Oak



GREEN SHADE REBATE APPLICATION

REBATE TERMS

- Must be a CPS Energy customer to receive rebate in the form of a credit on utility bill.
- Purchase an eligible tree(s) during October 1, 2011 through April 30, 2012.
- Tree(s) must be at least a size #5 container (5 gallon) or larger and from approved species list.
- Plant tree(s) within 10-30 ft of air-conditioned building on the west, south and east sides only. Trees planted on the north do not qualify.
- LIMIT THREE (3) TREE REBATES FOR A MAXIMUM OF \$150 PER PHYSICAL ADDRESS (NO P.O. BOX). Customers who received the maximum of 3 rebates between fall 2010 - spring 2011 are ineligible.
- Read and follow the required two-year maintenance agreement.
- Complete and sign this application, and SUBMIT WITH ORIGINAL RECEIPT FROM TREE PURCHASE.

TREE SPECIES AND SIZE

- _____
- _____
- _____

By signing this application, I understand the program provides a \$50 rebate, given in the form of a credit on my utility bill and in order to qualify:

- I must purchase an eligible tree(s) AND plant it WITHIN 10-30 ft of my air-conditioned building on the west, south, or east sides.
- I understand that in order to qualify, a program representative may perform a visual inspection of planting site and I agree to be contacted in the future to track survivability.
- I understand that CPS Energy and City of San Antonio are not responsible for any personal or property damage incurred by participation in this program and that CPS Energy and COSA do not ensure survival of the tree(s).
- I agree to follow the required two-year maintenance agreement for the tree(s) planted.
- I understand that CPS Energy reserves the right to deny any rebate request, with no exceptions, if the application does not conform to the program qualifications, procedures, and specifications. Funding for this program is limited and provided in part by the American Recovery and Reinvestment Act through the US Department of Energy and will be awarded on a first come, first serve basis.

APPLICANT INFORMATION
PLEASE TYPE OR PRINT CLEARLY USING BLACK OR BLUE INK.

CHECK ONE BOX:
 RESIDENTIAL/HOA SCHOOL/NON-PROFIT BUSINESS/COMMERCIAL

NAME OF REBATE RECIPIENT _____ CPS ENERGY ACCOUNT # _____

ADDRESS (where trees will be planted) _____ ZIP _____
NOTE: If you are renting, property owner's signature is required.

MAILING ADDRESS (if different from above) _____ ZIP _____

EMAIL _____ PHONE NUMBER _____

APPLICANT'S SIGNATURE _____ DATE _____

PROPERTY OWNER'S SIGNATURE (if different from applicant) _____ DATE _____

Your site plan should be as accurate and as close to scale as possible, paying close attention to details such as house orientation and location of air conditioning units.

PLANT A TREE. SAVE ENERGY. SAVE MONEY.

Save on your energy bill and add beauty to your home or business by using trees to shade your property. Find out how to qualify for a **\$50 rebate** on your utility bill.

According to the U.S. Department of Energy, carefully positioned trees can save up to 25% of a household's energy consumption.

Ask any sales associate for an application and information on how to plant the right tree in the right place to qualify for your rebate.

GREEN SHADE

TREES TO CHOOSE FROM

CPS GREEN SHADE TREE REBATE

Through Green Shade, you can receive a **\$50 rebate per tree** when you purchase a qualified tree and plant it in the right place to save on your energy bill. ...

www.cpsenergy.com/Residential/Rebates/Green...Trees/index.asp

ASK SALES ASSOCIATE FOR DETAILS

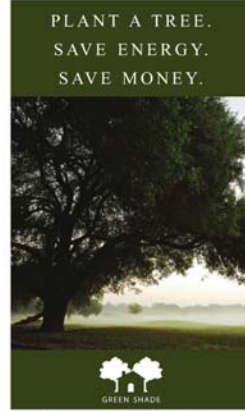
Performance Tracking

Rebates to be issued: **2632**

Tree approval rate needed to complete program on time: **18.5** applications/day

Report Date	Program length passed		Approved		Tree approval rate	Application Status			Rebates issued				Denied									
	days	%	trees	%		Application received	Approved, rebate pending	Approved, rebate issued	Denied	Residential, owner	Residential, Commercial/business	School	Non-Profit	Outside eligible timeframe	North side planting	Did not provide receipt	Did not provide site map	Incorrect tree	No CPS Energy account	Tree smaller than min. size	Planted too far from building	Other
10/18/2010	17	4%	93	1%	5.5	112	93	0	19	0	0	0	0	10	0	5	0	4	0	0	0	0
11/3/2010	31	7%	273	4%	8.8	306	183	90	31	85	5	0	0	17	0	3	5	8	0	0	0	0
11/15/2010	45	10%	438	6%	11.8	488	348	90	50	85	5	0	0	25	1	6	9	9	0	0	0	0
11/29/2010	59	13%	617	8%	12.8	683	159	458	64	442	12	4	0	30	3	11	11	9	0	0	0	0
12/13/2010	73	16%	795	10%	12.7	869	337	458	71	442	12	4	0	37	4	8	9	13	0	0	0	0
12/27/2010	87	19%	889	12%	6.7	975	93	796	74	774	15	6	0	1	40	4	8	8	14	0	0	0
1/10/2011	101	22%	951	12%	4.4	1053	155	796	87	774	15	6	0	1	40	6	14	12	15	0	0	0
1/25/2011	116	26%	989	13%	2.5	1101	193	796	112	774	15	6	0	1	42	9	21	20	17	0	2	0
2/7/2011	129	28%	1076	14%	6.7	1190	280	796	112	774	15	6	0	1	48	9	19	16	17	0	2	2
2/21/2011	143	32%	1163	15%	6.2	1283	69	1094	120	1060	25	7	1	1	53	10	22	13	17	0	2	2
3/7/2011	157	35%	1281	17%	8.4	1418	187	1094	137	1060	25	7	1	1	53	11	35	13	18	0	3	2
3/21/2011	171	38%	1430	19%	10.6	1568	336	1094	138	1060	25	7	1	1	54	11	32	14	20	0	3	2
4/4/2011	185	41%	1701	22%	19.4	1866	271	1430	165	1389	31	7	1	3	55	14	46	13	30	0	3	2
4/18/2011	199	44%	2222	29%	37.2	2428	240	1982	206	1923	45	10	1	3	55	18	60	14	49	0	4	2
5/2/2011	213	47%	2727	36%	36.1	2916	745	1982	189	1923	45	10	1	3	14	24	53	24	61	0	6	4
5/16/2011	226	50%	3240	42%	36.6	3478	1258	1982	238	1923	45	10	1	3	15	27	66	22	87	0	14	4
5/31/2011	236	50%	3328	44%	5.9	3570	73	3255	240	3166	69	13	1	6	15	32	64	22	87	0	14	3
6/14/2011	226	50%	3366	44%	2.7	3610	111	3255	242	3166	69	13	1	6	16	31	65	22	87	1	14	3
6/27/2011	226	50%	3400	45%	2.6	3647	8	3392	245	3292	78	15	1	6	16	32	64	22	92	1	14	3
7/11/2011	226	50%	3416	45%	1.1	3663	23	3393	247	3293	78	15	1	6	18	32	64	22	92	1	14	3
7/26/2011	226	50%	3427	45%	0.7	3677	34	3393	250	3293	78	15	1	6	21	32	64	22	92	1	14	3
8/8/2011	226	50%	3432	45%	0.4	3682	5	3427	250	3327	78	15	1	6	21	32	64	22	92	1	14	3
8/22/2011	226	50%	3435	45%	0.3	3685	0	3435	250	3335	78	15	1	6	21	32	64	22	92	1	14	3

Report Date	Program length passed		Approved		Tree approval rate	Application
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1/25/2011	116	26%	989	13%	2.5	11
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Save on your energy bill and add beauty to your home or business by using trees to shade your property and qualify for a

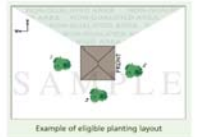
\$50 rebate.



To Qualify:

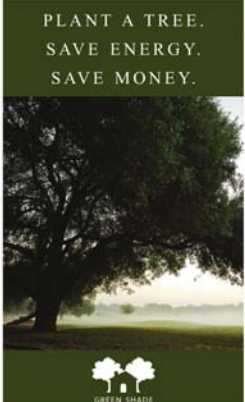
- You must be a CPS Energy customer.
- You must purchase an eligible tree beginning October 1, 2011 through April 30, 2012.
- The tree must be from our qualified species list and be size #5 or larger.
- You must plant your tree within 10 - 30 feet AND on the west, south or east side of your air-conditioned home or business.

Rebates will be awarded on a first come, first serve basis. Limit 3 rebates per physical address. Customers who received the maximum of 3 rebates between fall 2010 - spring 2011 are ineligible.



For complete rebate guidelines, application and tree planting instructions go to cpsenergy.com/residential/rebates or visit your nearest CPS Energy Customer Service Center or call 353-254V (2778). Fill out the application and include the original sales receipt for trees purchased. When selecting trees, consider diversity to minimize possible pest and disease problems.

PROGRAM STARTS: October 1, 2011
APPLICATIONS DUE BY: May 15, 2012



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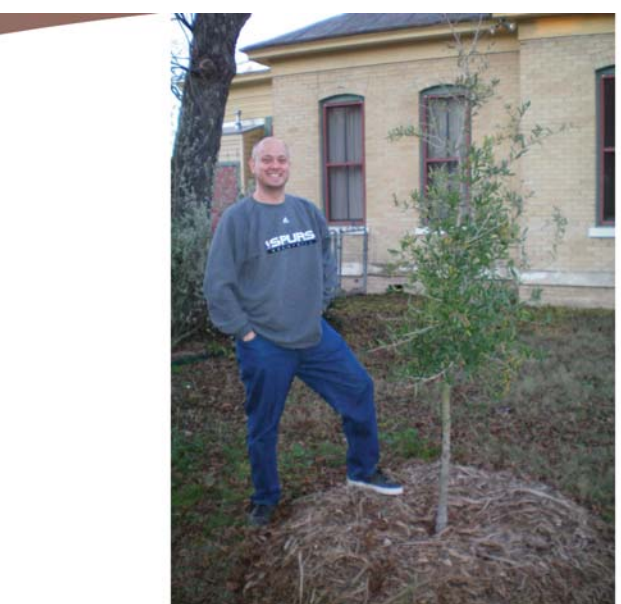
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6/14/2011	226	50%	3366	4
6/27/2011	226	50%	3400	4
7/11/2011	226	50%	3416	4
7/26/2011	226	50%	3427	4
8/8/2011	226	50%	3432	4
8/22/2011	226	50%	3435	4

Costs:
Rebates
\$171,750
Admin:
\$18,800
Publicity:
\$43,750 in-kind

Benefits:
1.035 M Kwh saved at maturity
\$101,250 annual utility savings
Next:
Verification by AFP
Phase 2 starts Saturday



facebook.com/alamoforestpartnership
twitter.com/alamoforest

Trees for Energy Savings

Paul Johnson MP 49933M
Regional Urban Forester, Texas Forest Service
pjohnson@tfs.texas.gov

Energy Efficiency
Conservation Block Grant
2014

- save energy
- support utility pilots
- research
- buy in
- evaluate
- replicate

GREEN SHADE

Fast Professional
Good Neighbors
Cheap Adoptions

San Antonio Water System
CPS
ALAMO FOREST PARTNERSHIP
City of San Antonio
PLANT TREES
TEXAS FOREST SERVICE

The infographic is centered around a Venn diagram with three overlapping circles: a purple circle labeled 'Fast' (with 'Professional' written vertically), a blue circle labeled 'Good' (with 'Neighbors' written vertically), and a green circle labeled 'Cheap' (with 'Adoptions' written vertically). The intersection of 'Fast' and 'Good' is labeled 'Professional', the intersection of 'Good' and 'Cheap' is labeled 'Neighbors', and the intersection of 'Fast' and 'Cheap' is labeled 'Adoptions'. The central intersection of all three is labeled 'Fast Good Cheap'. Surrounding this central diagram are four photographs: a group of people planting trees, a person holding a tree, a person working on a tree, and a person holding a tree. To the right is a circular graphic titled 'GREEN SHADE' showing a house with trees and a grid. At the bottom are logos for San Antonio Water System, CPS, Alamo Forest Partnership, City of San Antonio, Plant Trees, and Texas Forest Service. On the left, there is a list of energy efficiency goals and a contact information block for Paul Johnson, Regional Urban Forester at the Texas Forest Service.