

Customer Performance and the Design of Demand Response Programs

About CPG

Consulting, Research, and Design Services

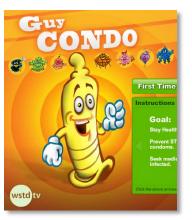
- Guide Management and Marketing Strategy
- Launch Innovations
- Improve Performance of Customers and Employees



Scientific Instruments



Publishing



Behavioral Health

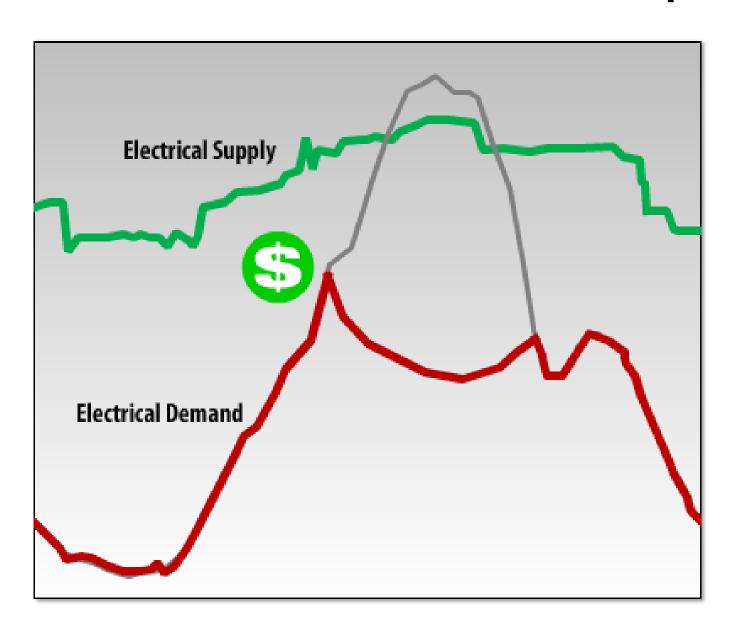


Smart Meter Systems

My Presentation Today

- 1. A Customer's View of Demand Response
- 2. Customer Performance and Demand Response
 - Customer Motivation
 - Designing Programs that are EZ4U
 - Enabling a Support Structure

Demand Response



For Customers, Demand Response Is Like...



Why Lie on a Bed of Nails When...



You Can Always Make More Electrons, Right?



The Problem is Clear



Design Programs for Customer Performance



Goals and Feedback





Processes, People, Tools, and Interfaces





Your New Electricity Rate
Your Energy. Your Way.

Q: Are Combit's electricity costs the arms during summer and non-numer months?
At No. summer costs are slightly higher than non-numer, due to increased costs to produce electricity.

Your New Rate: Shift-and-Save

Shift-and-Save Pricing has two rates: peak (higher price) and non-peak (lower price). Manage electricity costs by shifting usage to lower-price hours. Conserve electricity during higher price hours. On weekends, ComEd charges you the non-peak price.

With this new rate, your electricity costs over one year may increase, decrease, or stay the same. It will take four esasons (12 months) to determine whether Shift-and-Save Pricing can reduce your electricity costs.

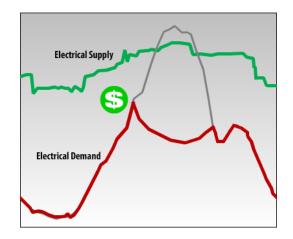
It's up to you.



Customer Education

PERFORMANCE ANIMASS

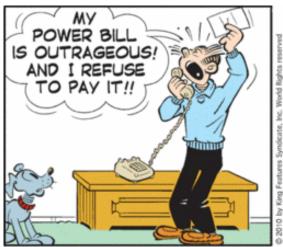
Rewards & Punishments



Customer Motivation

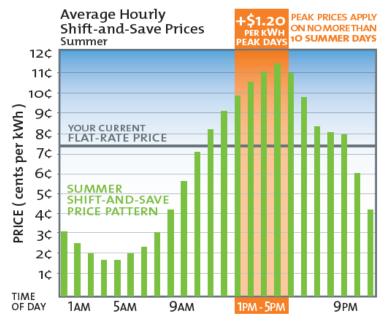
Imitation

Fear





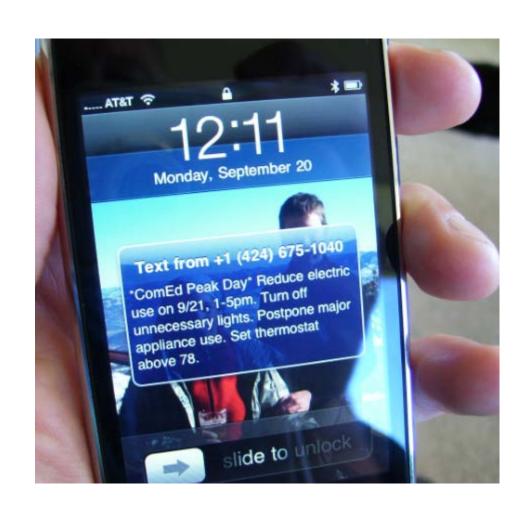




A Critical Peak Price's motivational power comes from the fear it inspires — a 1,400% increase in the price of electricity!

Pride

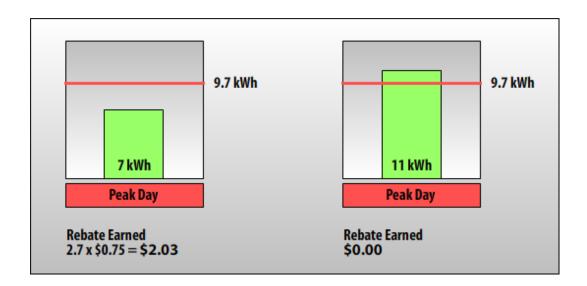




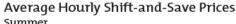
Imitation

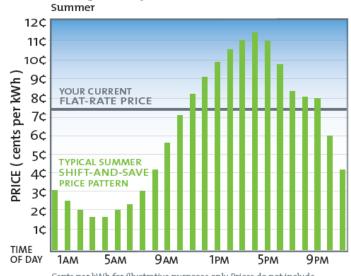


Gain



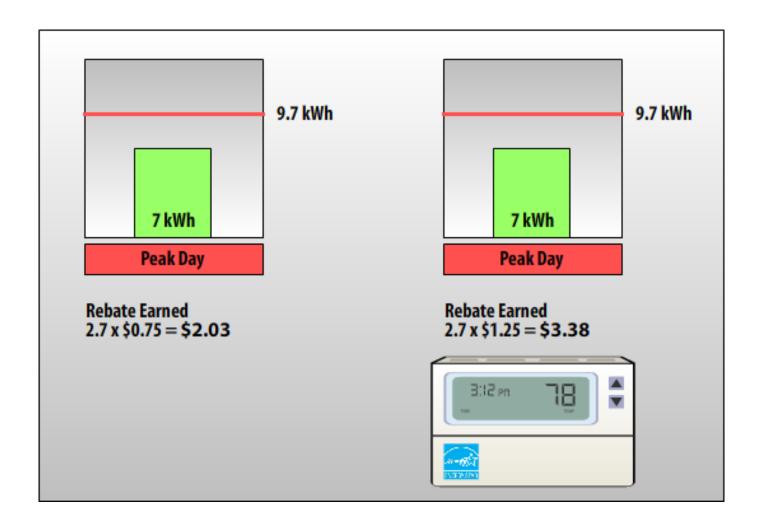
A Peak Time Rebate offers customers a reward when they use less electricity on a peak day.





Cents per kWh for illustrative purposes only. Prices do not include distribution charges for the delivery of the electricity. Actual rates will vary. An hourly rate enables customers to gain by shifting tasks to lowercost time periods of the day.

Additional Gains Through Automation



Designing Programs That Are EZ4U



What Happens When Father Knows Best

This is the door to Grandma's house.



The road to Grandma's House. Which way would you go?

This is how the designer wants grandchildren to get to Grandma's house.

Your Demand Response Programs Must Be Easy





This Not This

A Bright Spot in Thailand

Civic Participation in Sub-National Governments in Thailand

By Charas Suwanmala
Faculty of Political Science, Chulalongkorn University
Bangkok, Thailand

Email: scharas@chula.ac.th

Agendas of civic forum meetings at the village level

Agenda 1: Understanding objective and roles of village civic forums for local planning and budgeting.

Agenda 2: Identify problems, needs, and strategies of development

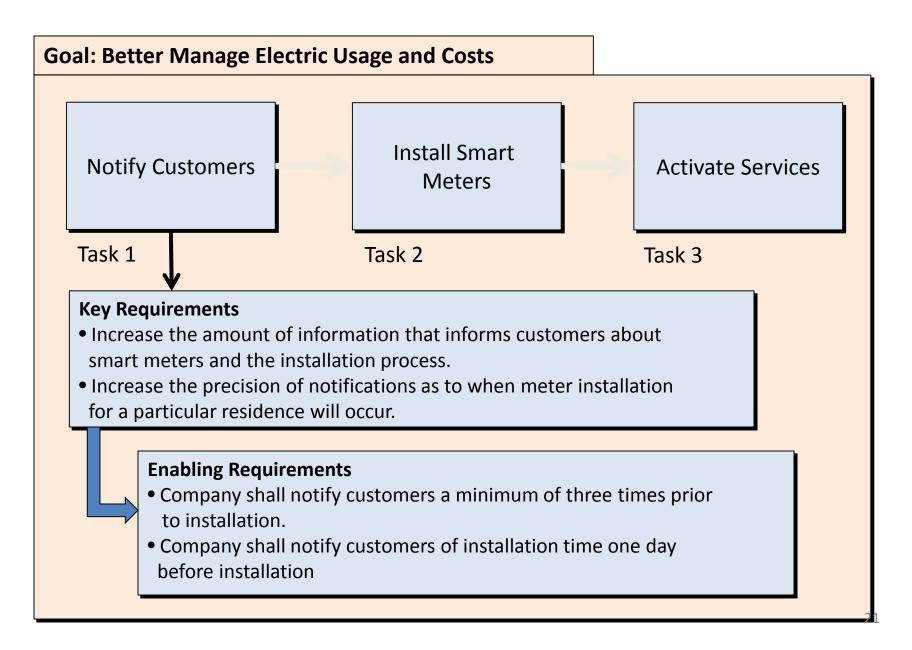
- 2.1 Building up your positive thinking: Your choices-the future of your community.
- 2.2 Identifying community problems and needs
- 2.3 Classifying and prioritizing community problems and needs
- 2.4 Identifying possible intervention, strategic actions, projects and activities for community problem solving.

Agenda 3: conclusion and completing given forms.

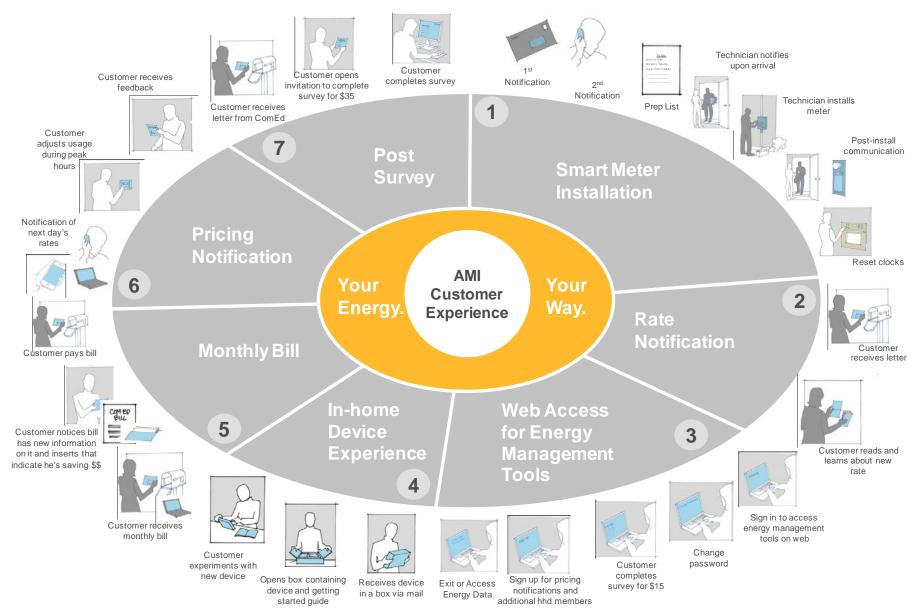
We Call This "Customer-Centered Design"



Customer Goals, Tasks, and Requirements



A Customer-Centered Design



Enabling a Support Structure



THE FEDERAL ENERGY REGULATORY COMMISSION STAFF



June 17, 2010 Docket No. AD09-10

Prepared with the support of

The Brattle Group · GMMB · Customer Performance Group
Definitive Insights · Eastern Research Group

Key Strategies and Activities

Communications Program

- Develop a Communications Umbrella
- Partnership development

- Communication with, and technical assistance to, states and federal agencies
- · Local implementation

Assistance to States

- Panel of demand response experts
- Demand response technical assistance program
- Demand response grant program

- Web-based clearinghouse
- Technical papers

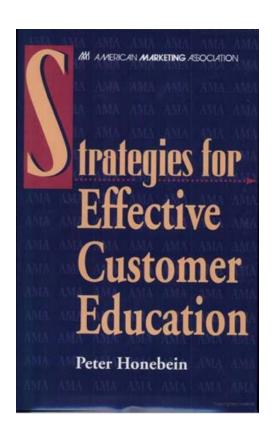
Tools and Materials

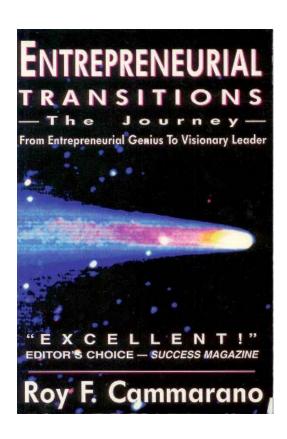
 Demand response estimation tools and methods

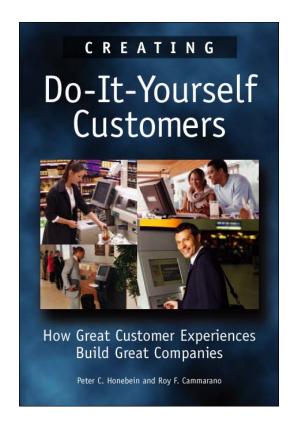
Find A Better Path With Your Customers



CPG's Thinking and Approaches







Additional Reading

- Honebein, P.C. and Cammarano, R.F. (2011). "The Agony and the Ecstasy of CRM in a Smart Grid World" Database Marketing and Customer Strategy Management, 18(4), 225-232.
- Honebein, P.C., Cammarano, R.F, and Boice, C. (2011). "Building a Social Roadmap for the Smart Grid." *The Electricity Journal*, 24(4), 78-85.
- Honebein, P.C. and Cammarano, R.F. (2011). "The Five Qualities of Effective Smart Grid Customer Education." *Metering International*, March(1), 24-29.
- Honebein, P.C. (2010). "We Got a New Digital Meter. Our Usage Went Up 123%. Our Bill Went Up 65%." The Electricity Journal, 23(2), 76-82.
- Honebein, P.C. & Cammarano, R.F. (2009). "Balancing Act: The Impact of Rational and Emotional Designs on Memorable Customer Experiences. In A. Lindgreen et al (Eds.), *Memorable Customer Experiences*. Surrey, UK: Gower.
- Honebein, P.C., Cammarano, R.F., and Donnelly, K. (2009). "Will Smart Meters Ripen or Rot? Five First Principles for Embracing Customers as Co-Creators of Value." The Electricity Journal, 22(5), 39-44.
- Honebein, P.C. (2009). "The New Energy Interface." *Interactions*, 16(5), 26-28.
- Honebein, P. C. and Cammarano, R.F. (2008), "Crafting a Persuasive Smart Meter Customer Experience." *Metering International*, January(1), 102-105.
- Honebein, P.C. & Cammarano, R.F. (2005). *Creating Do-It-Yourself Customers*. Natorp, OH: Texere.
- Honebein, P.C. (1997). Strategies for Effective Customer Education. Chicago: NTC Books

About Peter C. Honebein

Dr. Peter C. Honebein is an internationally-recognized expert on smart grid customer experience and is co-founder of the Customer Performance Group, a management and marketing strategy consulting firm. He is also an adjunct professor at the University of Nevada, Reno and Indiana University, where he teaches graduate and undergraduate classes in marketing, customer experience design, human performance technology, and instructional design.

As a designer and consultant, Dr. Honebein applies his vast knowledge of design, marketing, product development, and performance technology to solve novel problems related to human performance. He has created, marketed, and licensed commercial products, designed the system that tracked the cleanup of the Exxon Valdez oil spill, and consulted on the design, strategy, and launch of numerous innovations, products, and services, including the system that sequenced the human genome and smart metering systems for utilities such as SDG&E, ComEd, NV Energy, and Duquesne Light.

Dr. Honebein is the author of the books *Creating Do-It-Yourself Customers* and *Strategies for Effective Customer Education*, as well as numerous articles in such multidisciplinary publications as *The Electricity Journal, Metering International, Database Marketing & Customer Strategy Management, Marketing Management, Educational Technology*, and *Interactions*. He has also presented on topics related to the customer side of smart metering systems at numerous industry conferences.

Customer Performance Group

775-846-0398 | peter@honebein.com | www.doityourselfcustomers.com