

September 26, 2019

## **Establishing Subscription Rates in the Public Interest**

**NV PUC Alternative Ratemaking Workshop** 

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### **Agenda**

- Choose Principles for Assessing Tariffs with a Subscription element
- A Tariff that Aligns with Principles: EdF
- Competitive Provider Offerings: Texas
- Examples that Violate key principles
- Summary and Key Questions for Regulators

### General Goals of Rate Design

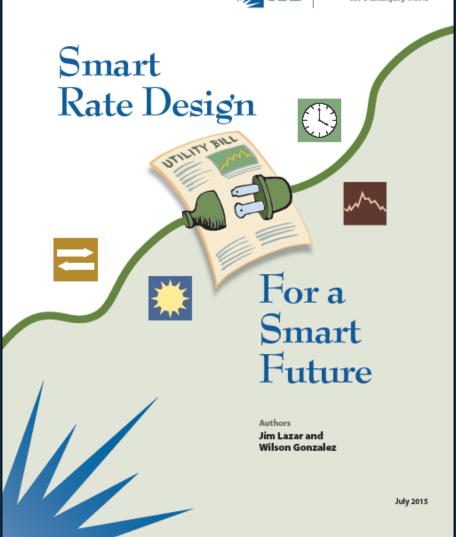


#### **General Goals of Rate Design**

- Efficient forward-looking price signals
- Recovery of revenue requirement
- Equitable intra-class cost allocation
- Customer understanding and acceptance
- Achievement of public policy goals

Within Overarching Frame of Imposing Pricing Discipline - Equivalent to Competitive Markets





### EdF Blue Tariff



#### Electricite de France

- Three Rates
  - Bleu (apartments and small homes)
  - Heures (homes with electric water heaters)
  - Tempo (large homes)
- All have subscription for the connected load.



### **Bleu: Apartments / Small Homes**

Contract	Monthly		Pri	ce per			
power-	subscription		kW	/h incl.	Incremental		
rating	incl. tax		tax		Cost / kVA		
(kVA)	(	Euros)	(E	uros)			
3	€	7.66	€	0.145			
6	€	9.21	€	0.145	€	0.52	
9	€	10.86	€	0.147	€	0.55	
12	€	12.58	€	0.147	€	0.57	
15	€	14.24	€	0.147	€	0.55	
18	€	15.96	€	0.147	€	0.57	

**Effective Customer Charge:** € 6.11

### **Heures:** Single Family Homes with Electric Water Heaters

Contract power- rating (kVA)	Monthly subscription incl. tax (Euros)		Peak hours incl. tax per kWH (Euros)		in pe	f-Peak ours cl. tax r kWH uros)	Incremental Cost / kVA		
6	€	10.30	€	0.158	€	0.123			
9	€	12.61	€	0.158	€	0.123	€	0.77	
12	€	14.77	₩	0.158	€	0.123	€	0.72	
15	€	16.78	€	0.158	€	0.123	€	0.67	
18	€	18.64	₩	0.158	€	0.123	€	0.62	
24	€	22.89	€	0.158	€	0.123	€	0.71	
30	€	24.96	€	0.158	€	0.123	€	0.35	
36	€	28.13	€	0.158	€	0.123	€	0.53	

**Effective Customer Charge: € 5.68** 

# Tempo: Critical Peak Pricing for Large Homes

Contract power-rating (kVA)	Monthly subscription incl. tax (Euros)			Energy Charges	Off-Peak		On-Peak	Incremental Cost / kVA	
9	€	12.33		Blue Days	€	0.111	€ 0.133		
12	€	14.41		Dide Days			0.100	€	0.69
15	€	15.30		Blue Days	€	0.126	€ 0.156	€	0.30
18	€	16.74		Days			Z 0.130	€	0.48
30	€	23.89		Blue Days	€	0.133	€ 0.541	€	0.60
36	€	27.38						€	0.58

**Effective Customer Charge: € 6.09** 

## Tempo: Critical Peak Pricing for Large Homes



### **EdF Rates: Summary**

- Small effective customer charge for billing and collection
- Small per kVA subscription charge (demand charge) for connected load
- Choice of flat, TOU, or Critical Peak energy pricing

## Retail Offerings in Restructured Jurisdictions



## **Actual Residential Offering in Texas**

- \$54 per month base charge
- Zero cents per kWh up to 1,000 kWh
- 20 cents per kWh over 1,000 kWh
- Three-year commitment with \$300 early termination fee

## **Actual Residential Offering in Texas**

- Retail supplier pays all wholesale energy costs and regulated delivery costs
- Risk is on supplier for consumption up to 1,000 kWh and theoretically includes incentives for customer control
- Strong efficiency incentive for customer over 1,000 kWh

# 4 Concerns with a default "Netflix" Like Subscription Model Tariff



### "Netflix" Subscription Model

- Who turns off the lightbulbs?
- If subscription counterparty is the regulated utility, is risk mitigated by option to file rate case?
- How does a regulator monitor other products offered in subscription and are other products rate-based?
- Will low-income customers be locked into a second-rate product?

### 5 Summary



## **Summary Points on Subscription Tariffs**

- Subscription element of a proposed tariff needs to be evaluated carefully
- Some subscription tariffs hide price signals and will discourage conservation and discourage efficient DER use and EV charging choices
- Competitive provider subscription tariffs are fundamentally different from utility provided ones



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