

# Ethnic Communities' Council of NSW Inc.

221 Cope Street Waterloo NSW 2017 Tel: (02)9319 0288 Fax: (02)9319 4229 Email: energy@eccnsw.org.au

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By email: <u>submissions@aemc.gov.au</u>

Mr John Tamblyn Chairman Australian Energy Market Commission (AEMC)

# Submission

# NERA/AEMC report: Review of the role of demand side participation in the National Electricity Market

Dear Secretariat,

Ethnic Communities Council of NSW (ECC) welcomes the opportunity to comment on the AEMC's report "Review of the role of demand side participation in the National Electricity Market, prepared by NERA.

As we all known there is not sufficient demand side participation (DSP) take place in the NEM to hence an efficient interaction between electricity demand and supply. The market doesn't work if it only addresses supply resources. Price signals only work if the customer has access to timely information about the value of energy over time and place, and the ability to act on that information.

DSP is needed in the NEM since its benefits include:

- o Lower prices for all and reduced price volatility
- o Enhanced market efficiency and increased system reliability
- Security of supply relief of network congestion & peak loads reduction
- Efficient long-term investment planning reduced both T&D and generation system investments
- o Reduction of short-term market power abuse
- o Enhanced risk management options and increased customer choice

Experiences of Demand Response programs from USA could be found on page 3 to page 7 in this submission.

ISO	Reliability-based		Market-based		
	Contractual	Voluntary	Bid-based	Price-taker	
CA ISO	Participating Load Program				
NE ISO	<ul><li>Real-time DRP</li><li>Real-time Profiled</li></ul>		Day-ahead DRP	Real-time Price Response Program	

#### Classification of 2003 ISO DSP Programs USA<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Kathan, D., 2003, FERC's Role in Demand Response, presented at IEA International Symposium on Demand Response, Sep. 2003, NYC

	Response Program			
NY ISO*	ICAP-SCR	EDRP	DADRP	
PJM		Emergency Load Response Program	Economic Load Response Program – Day- ahead option	Economic Load Response Program – Real- time option

\*Details of Demand Response Programs from NY ISO could be found at Section II 5.

However, due to the nature of the NEM ie energy market (kWh) instead of capacity market (kW), the value of DSP is not fully recognized, like it in the day-ahead market from overseas. The detailed discussions of electricity capacity market could be found at CRA's report: Short-term Forward Market (see APPENDIX). We recommend the establishment of capacity market in the NEM to enable the capacity trade and DM clearing price settled day-ahead. Market rules that accommodate demand response serve all players and resources need to be in place as well.

Principles for DSP Program Design:

- Continuity and Simplicity are critical<sup>2</sup>
  - ✓ Annual program changes should be kept to a minimum
  - ✓ Programs should run for at least 2-3 years (permanent is better)
  - ✓ Coordination with environmental agencies, state regulators is needed
- Participation requires education
  - Potential customers can develop curtailment plan developing a bidding strategy is more difficult
  - ISOs can teach mechanics third party organizations should handle bid strategy training
- Customers need to be paid to participate
  - $\checkmark$  At least in the beginning
  - ✓ Customers on flat retail tariffs have no incentive to participate
- Demand side resources should be capable of setting marginal price
- Customers need to see and react to real-time prices (RTP)
  - ✓ Greatest benefit comes form adoption of RTP
  - Adoption level doesn't need to be high to achieve significant marginal price impact

If you have any questions about this submission, please do not hesitate to contact me on 02 9319 0288.

Sincerely yours,

Joyn In

Joyce Fu Energy Program Coordinator Ethnic Communities' Council of NSW Inc.

<sup>&</sup>lt;sup>2</sup> King, C., 2003, Demand Response Programs in New York's Wholesale Electricity Market, presented at IEA International Symposium on Demand Response, Sep. 2003, NYC

#### **Demand Response Programs Experiences from USA**

#### I. What is Demand Response?

Demand Response Programs, once called Load Management, include "traditional" capacity reservation and interruptible/curtailable rates programs as well as voluntary demand bidding programs offered by either Load Serving Entities (LSEs) or regional Independent System Operators (ISOs).<sup>3</sup> Demand Response Programs are grouped into two broad categories: "reliability-based" (contingency) programs that operate in response to system contingencies and "market-based" programs that are triggered by wholesale market prices.

Feature	ure Function of DR in ISO Markets					
	Emergency		Day Ahead ICAP		Balancing	
		Electricity		Services	_	
Notice	e 2 hours Pr		2 hours of less	5 – 30	Hours to	
		afternoon		minutes	minutes	
Duration	4 or more	As bid by	2 or more hours	As bid by	1 - 8 hours	
	hours	customer		customer		
Frequency	As	and	Unlimited, most	and	Self-	
	dispatched	scheduled	likely in summer	dispatched	dispatched	
	by ISO	by ISO	months	by ISO	when	
	-				available	
Reservation	None	None	Yes (6 month	Yes (daily	None	
payment			market value)	markets)		
Performance	Yes	Yes	In some cases	Yes	Yes	
Payment						
Example	\$0.5/kWh	\$0.05 -	\$0.05 - \$0.5/kWh	\$0.01 - \$0.99	\$0.01 - \$0.5	
Value		\$0.99 /kWh		/kWh	/kWh	
Penalty	None	Market Price	Cash and	Market price	None	
-			participant	-		
			privilege			
			penalties			
Reference	NYISO	NYISO	NYISO ICAP	CAISO &	ERCOT, Load	
	EDRP	DADRP	2002	ISO-NE	as a Resource	
				Class I		

#### ISO offered Demand Response Programs, USA

(Kintner-Meyer, M., Goldman, C., Sezgen O. and Pratt, D., 2003, Dividends with Demand Response, LBNL-52980, available at <u>http://eetd.lbl.gov/EA/EMS/reports/LBNL-52980.pdf</u>)

#### II New York USA Experiences

#### 1. NYISO/NYSERDA Relationship<sup>4</sup>

New York Independent System Operator (NYISO)

--- Administers three demand response programs that pay for demand reductions **New York State Energy Research and Development Authority (NYSERDA)** --- supports these programs by reimbursing costs associated with technologies that enable demand response

#### 2. Zones and Reliability Requirements

New York Independent System Operator (NYISO) manages New York Control Area (NYCA) that consists of all New York territories formerly served by the regulated

<sup>&</sup>lt;sup>3</sup> Heffner G., 2002, "Configuring Load as a Resource for Competitive Electricity Markets – Review of Demand Response Programs in the US and Around the World" in the proceeding of the 14<sup>th</sup> Annual Conference of the Electric Power Supply Industry; Download from: http://eetd.lbl.gov/EA/EMP/ <sup>4</sup> Smith C 2003 Technologies and Approaches for Demand Response presentation at Association of

<sup>&</sup>lt;sup>4</sup> Smith, C., 2003, Technologies and Approaches for Demand Response, presentation at Association of Energy Services Professionals International (AESP) Brown Bag Seminar, Sep 18, 2003.

utilities/networks. The peak load is around 31,000MW in summer and the market is worth US \$5.2 billion. NYISO has organized the NYCA into 11 geographical zones that reflect the location of transmission lines, load centres and generation facilities.

#### 3. Market Participants

The primary NYCA market participants are Generators, Load Serving Entities (LSE), i.e. retailers, Direct Customers (DC), Customer Service Providers (CSP) and Transmission Owners (TO). LSEs buy Installed Capacity (ICAP) and energy and sell these services to end-users. LSEs are either regulated subsidiaries of the former utilities and providers of last resort, or new unregulated service providers. 95% of retail service is provided by the regulated LSEs.

CSPs sell the aggregated energy curtailment from end-users that have procured energy from other LSEs. The CSP was introduced to increase load curtailment participation by end-users where the LSE might not offer this capability.

In the New York energy market, the types of energy trading consists of bi-laterals (50% of volume), day-ahead market (DAM, 45-50% of volume) and real-time market (RTM, 5% of volume). Bi-laterals are direct trades between generators and LSE at undisclosed prices.<sup>5</sup>

# 4. Price Determination

The ICAP market is settled no later than the month in which energy consumption occurs. ICAP can be bought or sold in 1 month and six-month strips. On average, ICAP costs vary from \$1/kW-Month to \$9/kW-Month in the areas having in-zone capacity deficits.

The DAM determines hourly prices in each zone. The clearing price for this market is referred to as the DAM-Location Based Marginal Price (LBMP). The RTM serves to balance differences between planned (day-ahead) requirements and actual (hour-ahead) usage. Because of sheer volumes, the DAM-LBMP has the greatest impact on the energy prices that all customers pay. The DAM-LBMP has averaged \$58/MWh since the NYISO began operations. During extreme summer peaks conditions, the DAM-LBMP can spike sharply to levels in excess of \$500/MWh.

# 5. NYISO Price Responsive Load Programs

In NYCA, three demand responsive programs that providing financial incentives to endusers have been established since 2001: Emergency Demand Reduction Program (EDRP), Installed Capacity Special Case Resources (ICAP SCR) and Day-Ahead Demand Reduction Program (DADRP).

- EDRP is a short-notice program relying on the ability of **voluntarily** reducing their demand for a short period of time, in exchange for payment. It is available to interruptible load and emergency backup generation.
- ICAP SCR is a reserve capacity program that **contracts** resources to meet NYISO supply requirements over a specified contract period.
- DADRP is a customer-initiated economic **bidding** program, where participants offer their load reduction (ex. strike price (\$/MW), curtailment amount (MWs), start time and duration) into the wholesale market one day in advance.

The EDRP provides incentives for performance in response to a NYISO declared emergence. The program is voluntary, but end-users must register with the NYISO to

<sup>&</sup>lt;sup>5</sup> Douglas, P., Coup, D. and Osei-Antwi, D. 2002, "Price Responsive Load Programs in the New York Wholesale Electricity Market" in the proceeding of the 2002 ACEEE Summer Study.

be eligible for performance payments. Load curtailment could be from back-up generation or by shutting down equipment. EDRP plays the training ground and prepares customers for both ICAP SCR and DADRP.<sup>6</sup>

The DADRP, available to interruptible load only, allow load reductions to be bid into the DAM. The DADRP is activated prior to EDRP; and the EDRP provided the means for dispatchable load reduction in response to conditions arising after the DAM had settled.

The features and benefits of EDRP, DADRP and ICAP SCR are summarized in the following Table.

	Market Function	Eligibility	Event Notice	Duration	Performance Payment (US\$)	Non- compliance penalty
EDR P	Emergenc y Energy	>100kW, can aggregate	Day-ahead warning, 2 hr event notice	Min. of 4 hours	Greater of \$0.5/kWh or RTM LBMP	None
ICAP		within	21 hours	As	Up-front capacity payment	Resources
-		zones	ahead	contracted	(\$/kW market value of	de-rated in
SCR			warning, 2 hr event notice	; 4-hour minimum call	ICAP), plus energy payment (greater of RTM LBMP or \$0.5/kWh )	the future
DAD	Economic	>1MW,	Bid by 5am	As bid,	Greater of bid \$/kWh or	Greater of
RP	Energy	can	DAM, notice	multi-hour	DAM LBMP	DAM or
		aggregate	by 11am of	strips		RTM LBMP
		within	schedule for	allowed		
		zones	the next day			

• All programs require hourly interval meter with 2% accuracy of better.

• All programs require a Customer Baseline Load, which is the average of 5 highest energy consumption blocks corresponding to load reduction period from last 10 days.

• Participants may participate in either EDRP or ICAP SCR, but not both. ICAP SCR resources are called before EDRP.

• On-site generation is not allowed as an option under DADRP

(Summarised from NYSERDA, "Get in the Game with Three Electric Load-Management Programs", available at <u>http://www.nyserda.org/programs/pdfs/drpprimer.pdf</u> and "Reduce Energy...Get Paid", available at <u>http://www.nyserda.org/programs/pdfs/demandreduction.pdf</u>)

# Past EDRP/ICAP-SCR Experience

Year	Participants / MW	Events	Load curtailed (MW, as % of peak)	Energy curtailed (MWh)	Load factor during event* (%)	Payment (US\$ million)	Average cost (US \$/kW or \$/kWh)
2001	292 / 712MW	23 hrs (Downstate) 17 hrs (Upstate)	425 (1.4%)	8,159	0.22%	\$4.2 million	\$10/kW or \$0.51/kWh
2002	1,711 / 1,481 MW	22 hrs (Downstate) 10 hrs (Upstate)	668 (2.1%)	6,632	0.11%	\$3.3 million	\$5/kW or \$0.50/kWh
2003	1,536 / 1,708MW	22 hrs (Upstate & Downstate)	683 (2.2%)	12,714	0.21%	\$7.2 million	\$11/kW or \$0.57/kWh

(Breidenbaugh, A., 2004, NYISO Demand Response Programs for 2004, presented at NYDPA/NYSERDA/NYISO Demand Response Workshops, NYISO)

\*Load factor (%) = Energy p.a. / peak load x 8760 hrs [ex. 8159 / (425\*8760) = 0.22%]

<sup>&</sup>lt;sup>6</sup> Breidenbaugh, A., 2004, NYISO Demand Response Programs for 2004, presented at NYDPA/NYSERDA/NYISO Demand Response Workshops, NYISO

# 6. NYSERDA Peak-Load Reduction Program (PLRP)

The Peak-Load Reduction Program provides financial support for modifications to onsite equipment such as upgrades to energy management systems, lighting and air conditioning controls, emergency generator switch gear and interval meters. NYSERDA has up to **\$10.5 million** allocated for PLRP for summer 2004.

#### 6.1 Program Objectives:

- Drive the market for energy-efficient products and services
- > Control and reduce loads on specific NY electric utility systems
- Accelerate the replacement of old, inefficiency products
- Enable customers to participate in New York Independent (NYISO) or TO's emergency programs
- Educate public on energy efficiency and to shift consumption to off-peak periods

#### 6.2 Program types for business

PERMANENT DEMAND REDUCTION	LOAD CURTAILMENT/SHIFTING
EFFORTS	Load Curtailment/Shifting (LC/S) is a short-
Permanent Demand Reduction Efforts (PDRE)	notice program that provides incentives for
provides incentives to install permanent	equipment installation, allowing facilities to
energy efficient equipment that will reduce	curtail demand in response to a constrained
facility peak demand during the summer peak-	electric grid or predefined price signal.
demand period.	<ul> <li>Minimum project size is 100kW.</li> </ul>
<ul> <li>Minimum project size is 20 kW; aggregation</li> </ul>	<ul> <li>LC/S provides incentives for technologies</li> </ul>
encouraged.	that enable facilities to curtail demand upon
<ul> <li>Incentives are provided for heating,</li> </ul>	notification from the NYISO when the grid
ventilation and air-conditioning (HVAC)	becomes strained, or an LSE when localized
equipment, lighting equipment, motors, fuel	distribution constraints occur.
cells, wind turbines, photovoltaic (PV), and	<ul> <li>To qualify, LC/S participants must register in</li> </ul>
other select measures.	a NYISO Demand Response Program,
<ul> <li>Lighting measures must be hard-wired</li> </ul>	acceptable Load Serving Entity (LSE) load-
installations. Screw-in lamps and/or	management program, Time-of-Use, or Real-
ballasts and fossil-fuel-fired generators are	Time-Pricing program.
not eligible.	<ul> <li>Demand reductions from micro turbines,</li> </ul>
	generation, or cogeneration equipment are
	· · · · · · · · · · · · · · · · · · ·
	ineligible.
DISPATCHABLE EMERGENCY	INTERVAL METERS
DISPATCHABLE EMERGENCY GENERATOR INITIATIVES	INTERVAL METERS
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(NYSERDA, "Keep the Power Flowing - Four ways for businesses to participate", downloadable at <u>http://www.nyserda.org/programs/pdfs/KeepThePowerFlowing.pdf</u>)

# 6.3 Projects Incentive Caps

PDRE		LC/S		DEGI		IM (per meter)	
Downstate	Upstate	state Downstate Upstate Downstate Upsta		Upstate	PSC approved	NYISO compliant	
\$475/kW	\$225/kW	\$175/kW	\$45/kW	\$125/kW		\$2,500	\$1,200

(Note: Up to 70% of eligible project costs; \$735,000 per facility maximum)