

PUB/MH I-216(b) example - DSM versus new supply (e.g. showerhead)**Part 1 - PUB/MH I-216b example****Utility**

		Example #1 Existing	Example #2 Add Supply 100 GW.h at \$0.10/kW.h new gen or lost exports	Example #3 Add DSM 100 GW.h at \$0.10/kW.h		Example #4 Add DSM 100 GW.h at \$0.027/kW.h	
row							
1	Net Revenue Req (\$M)	\$70	\$70		\$70		\$70
2	added: gener. or lost exp.	0	\$10		0		0
3	added: DSM cost	0	0		\$10		\$2.7
4(1+2+3)	Total	\$70	\$80		\$80		\$72.7
5	Sales(GW.h)	1,000	1,000		1,000		1,000
6	added: growth	0	100		100		100
7	less: DSM	0	-		- 100		- 100
8(4+5+6)	Total	1,000	1,100		1,000		1,000
9 (4/8)	Average Rate (\$/kW.h)	\$0.0700	\$0.0727		\$0.0800		\$0.0727
Customer				participating customer	non participating customer	participating customer	non participating customer
10	Usage (kW.h/yr)	10,000	10,000	9,000	10,000	9,000	10,000
12 (9*10)	Bill (\$/yr)	\$700.00	\$727.00	\$720.00	\$800.00	\$654.30	\$727.00

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3	added: DSM cost	0	0	\$10	\$2.7	
4(1+2+3)	Total	\$70	\$80	\$80	\$72.7	
5	Sales(GW.h)	1,000	1,000	1,000	1,000	
6	added: growth	-	100	100	100	
7	less: DSM	-	-	- 100	- 100	
8(4+5+6)	Total	1,000	1,100	1,000	1,000	
9 (4/8)	Average Rate (\$/kW.h)	\$0.0700	\$0.0727	\$0.0800	\$0.0727	
Customer				participating customer	non participating customer	participating customer non participating customer
10	Usage (kW.h/yr)	10,000	10,000	9,000	10,000	9,000 10,000
12 (9*10)	Bill (\$/yr)	\$700.00	\$727.00	\$720.00	\$800.00	\$654.30 \$727.00

Part 2 - DSM Ratios

13		Marginal Benefits	\$0.10/kW.h cost of new generation or lost exports			
14	ASSUMED	Non-Energy Benefits	\$0.03/kW.h water saving			
15	ASSUMED	Program Costs	\$0.02/kW.h advertising			
16	ASSUMED	Product Costs	\$0.09/kW.h purchase and installation			
			Example #3		Example #4	
17		Utility Admin Cost	\$0.02		\$0.02	
18		Incentives	\$0.08		\$0.007	
19		Total Utility Cost (from above)	\$0.10		\$0.027	
20	Integratec TRC	Marginal Benefits + Non Energy Benefit:	\$0.10+0.03	= 1.18	\$0.10+0.03	= 1.18
21	Metric	Admin Costs + Product Costs	\$0.02+0.09		\$0.02+0.09	
22	Utility RIM	Marginal Benefits	\$0.10	= 0.58	\$0.10	= 1.0
23	Ratepayer Metric	Revenue Loss + Admin Costs + Incentive Cost	\$0.0727+\$0.02+\$0.08		\$0.0727+\$0.02+\$0.007	
24	Customer	Incentives Received + Bill Savings + Non Energy Benefits	\$0.08+\$0.0727+\$0.03	= 2.03	\$0.007+\$0.0727+\$0.03	= 1.22
25	Metric	Product Costs	\$0.09		\$0.09	

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row							
1	Net Revenue Req (\$M)	\$70	\$70		\$70		\$70
2	added: gener. or lost exp.	0	\$10		0		0
3	added: DSM cost	0	0		\$10		\$2.7
4(1+2+3)	Total	\$70	\$80		\$80		\$72.7
5	Sales(GW.h)	1,000	1,000		1,000		1,000
6	added: growth	-	100		100		100
7	less: DSM	-	-		- 100		- 100
8(4+5+6)	Total	1,000	1,100		1,000		1,000
9 (4/8)	Average Rate (\$/kW.h)	\$0.0700	\$0.0727		\$0.0800		\$0.0727
Customer				participating customer	non participating customer	participating customer	non participating customer
10	Usage (kW.h/yr)	10,000	10,000	9,000	10,000	9,000	10,000
12 (9*10)	Bill (\$/yr)	\$700.00	\$727.00	\$720.00	\$800.00	\$654.30	\$727.00

Part 2 - DSM Ratios

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14	Assumed	Non-Energy Benefits	\$0.03/kW.h water saving			
15	Assumed	Program Costs	\$0.02/kW.h advertising			
16	Assumed	Product Costs	\$0.09/kW.h purchase and installation			
			Example #3		Example #4	
17		Utility Admin Cost	\$0.02		\$0.02	
18		Incentives	\$0.08		\$0.007	
19		Total Utility Cost (from above)	\$0.10		\$0.027	
20	Integrated TRC	<u>Marginal Benefits + Non Energy Benefits</u>	<u>\$0.10+0.03</u>	= 1.18	<u>\$0.10+0.03</u>	= 1.18
21	Metric	Admin Costs + Product Costs	\$0.02+0.09		\$0.02+0.09	
22	Utility RIM	<u>Marginal Benefits</u>	<u>\$0.10</u>	= 0.58	<u>\$0.10</u>	= 1.0
23	Ratepayer Metric	Revenue Loss + Admin Costs + Incentive Cost	\$0.0727+\$0.02+\$0.08		\$0.0727+\$0.02+\$0.007	
24	Customer	<u>Incentives Received + Bill Savings + Non Energy Benefits</u>	<u>\$0.08+\$0.0727+\$0.03</u>	= 2.03	<u>\$0.007+\$0.0727+\$0.03</u>	= 1.22
25	Metric	Product Costs	\$0.09		\$0.09	

Part 3 - DSM Unit Costs

26	Integrated LRC	<u>Product Costs + Admin Costs</u>	<u>\$0.09+\$0.02</u>	= \$0.11/kW.h	<u>\$0.09+\$0.02</u>	= \$0.11/kW.h
27	Metric	Energy				
28			with Non Utility Benefits included		with Non Utility Benefits included	
29			(\$0.03 offset)	= \$0.08/kW.h	(\$0.03 offset)	= \$0.08/kW.h
30	Utility LUC	<u>Admin Costs + Incentives</u>	<u>\$0.02+\$0.08</u>	= \$0.10/kW.h	<u>\$0.02+\$0.007</u>	= \$0.027/kW.h
31	Ratepayer Metric	Energy				

TRC = Total Resource Cost

RIM = Rate Impact Measure

LRC = Levelized Resource Cost

LUC = Levelized Utility Cost