# NEW YORK STATE BOARD ON ELECTRIC GENERATION SITING AND THE ENVIRONMENT

#### IN THE MATTER

of the
Application by TransGas Energy Systems LLC for a
Certificate of Environmental Compatibility and Public Need to
Construct and Operate a 1,100 Megawatt Combined Cycle
Generating Facility
in the Borough of Brooklyn, New York

Case 01-F-1276

Surrebuttal Testimony of
David A. Schlissel
and
Geoffrey L. Keith

On behalf of
The Brooklyn Borough President
and the
Greenpoint Williamsburg Waterfront Task Force

**November 6, 2003** 

1	Q.	Mr. Schlissel, please state your name, position and business address.
2	A.	My name is David A. Schlissel. I am a Senior Consultant at Synapse Energy
3		Economics, Inc, 22 Pearl Street, Cambridge, MA 02139.
4	Q.	Mr. Keith, please state your name, position and business address.
5	A.	My name is Geoffrey L. Keith. I am an Associate at Synapse Energy Economics,
6		Inc., 22 Pearl Street, Cambridge, MA 02139.
7	Q.	Have you previously submitted testimony in this case?
8	A.	Yes. We filed direct testimony on September 29, 2003 and rebuttal testimony on
9		October 27, 2003.
10	Q.	What is the purpose of this rebuttal testimony?
11	A.	In this rebuttal testimony we will respond to new analyses presented in the
12		rebuttal testimony filed by TGE witnesses Younger and Solzhenitsyn.
13	Q.	Please comment on the claim by TGE witnesses Younger and Solzhenitsyn
13 14	Q.	Please comment on the claim by TGE witnesses Younger and Solzhenitsyn that proper system planning should not assume that all permitted projects
	Q.	·
14	<b>Q.</b> A.	that proper system planning should not assume that all permitted projects
14 15		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup>
<ul><li>14</li><li>15</li><li>16</li></ul>		that proper system planning should not assume that all permitted projects will be constructed.  It may be reasonable in long-term system planning to examine alternative
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>		that proper system planning should not assume that all permitted projects will be constructed.  It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or
14 15 16 17 18		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup> It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or not built. However, the four plants that we have said should be fully represented
14 15 16 17 18 19		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup> It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or not built. However, the four plants that we have said should be fully represented in the Applicant's modeling in this proceeding are facilities that either are already
14 15 16 17 18 19 20		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup> It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or not built. However, the four plants that we have said should be fully represented in the Applicant's modeling in this proceeding are facilities that either are already under construction (i.e., NYPA Poletti Expansion), that already have contracts to
14 15 16 17 18 19 20 21		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup> It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or not built. However, the four plants that we have said should be fully represented in the Applicant's modeling in this proceeding are facilities that either are already under construction (i.e., NYPA Poletti Expansion), that already have contracts to provide power in the near term (i.e., SCS Astoria Energy) or that are very likely to
14 15 16 17 18 19 20 21 22		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup> It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or not built. However, the four plants that we have said should be fully represented in the Applicant's modeling in this proceeding are facilities that either are already under construction (i.e., NYPA Poletti Expansion), that already have contracts to provide power in the near term (i.e., SCS Astoria Energy) or that are very likely to enter into contracts to provide power in the near term (i.e., ANP Brookhaven or
14 15 16 17 18 19 20 21 22 23		that proper system planning should not assume that all permitted projects will be constructed. <sup>1</sup> It may be reasonable in long-term system planning to examine alternative scenarios in which permitted plants not yet under construction are either built or not built. However, the four plants that we have said should be fully represented in the Applicant's modeling in this proceeding are facilities that either are already under construction (i.e., NYPA Poletti Expansion), that already have contracts to provide power in the near term (i.e., SCS Astoria Energy) or that are very likely to enter into contracts to provide power in the near term (i.e., ANP Brookhaven or KeySpan Spagnoli Road). In these circumstances, i.e., where the Siting Board

Younger/Solzhenitsyn Rebuttal Testimony, at page 5, lines 19-20.

1	their revised MAPS analyses now appropriately reflect the entire capacity of both
2	the SCS Astoria Energy and the NYPA Poletti Expansion facilities as well as the
3	approximate 600 MW of new capacity that we said can be expected to be added
4	on Long Island.

- Mr. Younger and Mr. Solzhenitsyn cite a number of reasons why the 80 percent in-City capacity rule may be increased in the next several years.<sup>2</sup>
  Would such a change affect the results of your reliability analyses?
- A. No. As can be seen on Table 7 in our September 29, 2003 direct testimony, installed in-City capacity would be almost 90 percent of the projected summer peak demand in 2008 even if only the East River Repowering, KeySpan Cogeneration, NYPA Poletti Expansion, and SCS Astoria Energy facilities are completed. Tables 5 and 6 in our direct testimony show that the installed in-City capacity would exceed 94 percent of projected 2008 peak demand if the Astoria Repowering Project or the Cross Hudson Cable, or both projects, are built.
  - Q. Have you seen any factors which might suggest that the in-City minimum capacity might not be increased in future years?
- 17 Yes. Mr. Younger and Mr. Solzhenitsyn cite a number of reasons why the A. 18 installed in-City capacity requirement might be increased above the current 80 19 percent level. It also is possible that the in-City capacity requirement may not be 20 increased by 2008. In fact, as we explained in our rebuttal testimony, there are at 21 least four proposals to add new transmission lines that would increase the amount of capacity that can be brought into New York City.<sup>3</sup> The existence of this 22 additional transmission capacity, and the alternate routes by which power can be 23 24 carried into the City, would support maintaining, and not increasing, the in-City 25 installed capacity requirement at 80 percent.

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Younger/Solzhenitsyn Rebuttal Testimony, at page 8, lines 9-12.

Schlissel-Keith Rebuttal Testimony, at page 7, lines 14-21.

1	Q.	Do you think that the explanation given by Mr. Younger and Mr.
2		Solzhenitsyn as to why it is more reasonable to expect that the proposed TGE
3		facility will be built than Reliant's Astoria Repowering Project is credible? <sup>4</sup>
4	A.	No. As we explained in our direct testimony, Reliant is an established power
5		supplier and owns a large number of facilities. To the best of our knowledge, TGE
6		owns only one facility in upstate, New York. Consequently, Reliant can be
7		expected be in a better position to obtain project financing than TGE. In fact,
8		TGE has provided absolutely no evidence, of which we are aware, that it even
9		will be able to obtain any financing for its proposed project if it is certified by the
10		Siting Board and receives the necessary local approvals.
11		Mr. Younger and Mr. Solzhenitsyn also claim that the benefits would be lower for
12		the Astoria Repowering Project than for TGE's proposed facility. <sup>5</sup> This is pure
13		speculation on their part. They provide no evidence of Reliant's projected costs
14		and revenues for its proposed Astoria Repowering Project. Nor do they provide
15		any evidence of TGE's projected costs and revenues for its proposed facility.
16		Without such evidence, there is no basis to speculate on the relative benefits that
17		each project will provide for its owner.
18	Q.	Do you agree with the treatment that Mr. Younger and Mr. Solzhenitsyn
19		discuss for the proposed Hudson Energy/Gen Power and Neptune
20		transmission lines? <sup>6</sup>
21	A.	Yes.
22	Q.	Do you find TGE's revised projections of the SO <sub>2</sub> benefits from its proposed
23		project to be reasonable?
24	A.	Absolutely not. On page 22 of the Younger/Solzhenitsyn rebuttal testimony, TGE
25		revises its projected SO <sub>2</sub> benefits from the 3,310 tons of the original filing to 431

<sup>&</sup>lt;sup>4</sup> Younger/Solzhenitsyn Rebuttal Testimony, at page 11, lines 3-12.

<sup>&</sup>lt;sup>5</sup> Younger/Solzhenitsyn Rebuttal Testimony, at page 10, lines 3-4.

<sup>&</sup>lt;sup>6</sup> Younger/Solzhenitsyn Rebuttal Testimony, at page 12, line 17, through page 13, line 19.

1		tons. That is, they claim that emissions of SO <sub>2</sub> with the TGE plant would be
2		lower than in a scenario without the TGE plant by 431 tons. As we described in
3		our September 29 testimony, there is no theoretical basis for the assertion that the
4		TGE facility will result in any measurable near-term SO <sub>2</sub> reductions in the context
5		of a statewide cap. <sup>7</sup>
6		There is no basis for this assertion because, absent evidence to the contrary, we
7		must assume that the market for SO <sub>2</sub> allowances in New York will operate
8		reasonably efficiently and that total state emissions will be very close to the
9		capped level. If a new plant like TGE displaced the output of a high-SO <sub>2</sub> -emitting
10		plant, the owners of the latter plant would maximize profits by selling the
11		unneeded allowances to another New York generator.
12		Therefore, if total SO <sub>2</sub> emissions are significantly below the cap in 2008, it will
13		mean that the generating sector has voluntarily overcomplied with the regulation
14		in that year. TGE has provided no evidence to show that such voluntary
15		overcompliance will occur. But more importantly, even if voluntary
16		overcompliance was to result in actual SO2 emissions being significantly under
17		the capped level, it would not be a result of adding the TGE facility.
18	Q.	Is it difficult to simulate compliance with an emissions cap with a model like
19		MAPS?
20	A.	It is time consuming. MAPS does not simulate allowance trading, like some other
21		models do. That is, it does not reallocate allowances endogenously, converging
22		on an optimized allocation of allowances. Thus, allowance trading programs
23		must be simulated in an iterative way with MAPS. The modeler must make
24		assumptions about the effect of the emission cap, run the model, observe total
25		system emissions in that run, adjust the assumptions as necessary and rerun the
26		model. The assumptions usually altered in this iterative process are "SO2 costs"
27		(a proxy for the price of allowances), SO <sub>2</sub> emission rates at selected plants and
28		plants in service.

Schlissel-Keith Direct Testimony, at page 33, lines 23-25.

1	Q.	Should the modeler always continue iterating until the cap has been matched
2		exactly?
3	A.	Not necessarily. In dispatch modeling, efforts to be more and more precise
4		usually provide diminishing value. Especially considering the ranges of
5		uncertainty associated with other inputs and outputs in a dispatch model, getting
6		total system emissions exactly at the capped level may not be worth the time.
7		However, total emissions must be close to the cap to produce a credible
8		simulation of the study year. The important point here is not that TGE's modeled
9		SO <sub>2</sub> emissions were slightly below the cap with the proposed plant operating. It
10		is that they attributed these lower SO <sub>2</sub> emissions to the addition of the new TGE
11		facility. The result of SO <sub>2</sub> emissions slightly below the cap was driven by the
12		way that TGE simulated compliance with the new SO <sub>2</sub> regulation, not by the
13		addition of the TGE plant to the model.
14	Q.	Do you find TGE's revised NO <sub>x</sub> benefits to be reasonable?
15	A.	No. TGE makes the same mistake with $NO_x$ emissions that it made with $SO_2$
16		emissions. As we pointed out in our September 29 testimony, $NO_x$ emissions in
17		2008 from large electric generators in New York State will be capped during the
18		non-summer season by a state-specific emissions cap. <sup>8</sup> In the summer months,
19		$NO_x$ emissions across the entire eastern half of the country will be capped by the
20		federal NO <sub>x</sub> SIP Call program.
21		Because the non-summer cap covers only New York State, allowances will only
22		be traded within New York during that period. Thus, the TGE facility would not
23		reduce state $NO_x$ emissions for the reasons stated above. Under the summer cap,
24		if the TGE plant reduced the output of a NO <sub>x</sub> -emitting plant in New York, the
25		state might benefit from the emission reduction, because the free up allowances
26		might be sold to a plant in a distant state. It is impossible to predict with MAPS
27		how allowances will be traded and what total emissions will be in different states.

<sup>8</sup> Schlissel-Keith Direct Testimony, at pages 33-34.

2		Thus, all that can be said with confidence is that the TGE plant <i>might</i> result in $NO_x$ reductions in New York <i>during the summer season</i> .
3	Q.	Do you believe that the TGE plant would have any impact at all on the generating sector's compliance with New York's $SO_2$ and $NO_x$ caps?
5 6 7 8 9 10 11	A.	Yes. The SO <sub>2</sub> and NO <sub>x</sub> emission rates of the proposed TGE plant would be below the emission rates targeted by the caps – the emission rates used to allocate allowances to generators. Thus, to the extent that the output of the TGE plant displaced the output of a high-emitting plant, allowances would be effectively freed up for sale. This increase in the supply of allowances would exert downward pressure on the price of allowances. Depending on the amount of high-emission electricity that TGE displaced, a price effect might or might not be discernable.
13 14	Q.	Would a price effect in an allowance market result in cost savings for New York electricity consumers?
15 16 17 18 19 20 21	A.	In the near term, we do not know. For customers to see lower prices, New York's power generators would have to reflect the savings in their wholesale market bids and the state's electricity retailers would have to pass the savings on to customers. The output of one plant might not have a discernable effect on this supply chain. Over time, however, as many new low-emission plants are added to the New York grid, one would expect the cost of meeting the SO <sub>2</sub> cap to fall. Hopefully, these cost reductions would be reflected in customers' bills. Air regulators also
<ul><li>22</li><li>23</li><li>24</li></ul>	Q:	might respond to this situation by tightening the cap.  Do you have other concerns about the revised emissions benefits claimed by TGE?
25 26 27 28 29	A:	Yes. We find it strange that the changes TGE has made in their modeling inputs have resulted in a substantial reduction in system CO <sub>2</sub> emissions relative to their previous claims. The table on page 22 of the Younger/Solzhenitsyn rebuttal testimony shows revised CO <sub>2</sub> reductions (across New York, New England and PJM) of 1.1 million tons. This is roughly 22 percent higher than the benefits

1		predicted in their December 2002 model runs (919,000 tons). Presumably, all of
2		the changes TGE made to its modeling inputs were made to both the base case
3		and the scenario with the TGE plant. Thus, we would not expect these changes to
4		affect the CO <sub>2</sub> emission reductions attributable to the TGE plant. Note that the
5		changes TGE made to its modeling inputs reduced the projected $NO_x$ and $SO_2$
6		benefits, as one would expect. We believe that the CO <sub>2</sub> benefits shown in TGE's
7		revised modeling runs should not be viewed as credible unless TGE provides a
8		plausible explanation for why these benefits increased so much over their original
9		projections.
10	Q.	Do you believe that the Applicant's new analyses present a more credible
11		picture of the impact of the proposed TGE facility on the air quality in the
12		Greenpoint and Williamsburg communities than the original analyses filed
13		as part of the Application?
14	A.	No. The Applicant's new analyses of the impact of the proposed facility on the
15		neighboring communities assumes that TGE would displace significant amounts
16		of steam that would otherwise be produced by duct firing at the East River
17		Repowering Project, at the Hudson Avenue Station, at the South Steam Station,
18		and by East River Boiler Nos. 60 and 70. In fact, the Applicant assumes that its
19		proposed facility would displace over 90 percent of the steam produced at the
20		South Steam Station and by East River Boilers Nos. 60 and 70, i.e., 3,037 mmlbs
21		per year of the 3,349 mmlbs per year that Con Edison expects to produce at these
22		facilities in a typical year. The Applicant also assumes that it will displace 63
23		percent of the steam that Con Edison expects to produce at the Hudson Avenue
24		Station in a typical year and another 1,683 mmlbs/year of the steam that Con
25		Edison expects to produce by duct firing at the East River Repowering Project.
26		However, the Applicant fails to present any evidence that Con Edison will enter
27		into a contract for the purchase of steam from the proposed TGE facility or that
28		the Public Service Commission will require Con Edison to enter into such a

contract. The Applicant also fails to provide any evidence that the price of

producing steam at the proposed TGE facility (considering all of the related costs,

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1		including the capital costs that have to be spent on needed facilities such as the
2		new steam tunnel) would be more economic than the cost of producing steam at
3		the Hudson Avenue, the South Steam Station, East River Boilers Nos. 60 and 70,
4		or through duct firing at the East River Repowering Project. Without this
5		evidence, the Applicant's claims are not credible.
6		In the Article X Case for the Ravenswood Cogeneration Project, KeySpan
7		claimed the potential to sell steam to Con Edison as a potential benefit for its
8		proposed facility. These claims were even more credible than those by TransGas
9		in this proceeding, because there was an existing steam tunnel between
10		Ravenswood and Con Edison's system in Manhattan and Con Edison already
11		produced steam on the Ravenswood site. However, no contract for the sale of
12		steam has yet been entered into between KeySpan and Con Edison.
13	Q.	Does the new analysis demand curve analysis presented in the rebuttal
14		testimony of Mr. Younger provide a reasonable picture of the magnitude of
15		the capacity costs that can be expected from the proposed TGE facility?
16	A.	No. For several reasons, Mr. Younger's new analysis dramatically overstates the
17		capacity cost savings that can be expected as a result of the addition of the
18		proposed TGE facility.
19		First, Mr. Younger understates that amount of new capacity that can reasonably
20		be expected to be added in New York City by 2008 even if the TGE facility is not
21		built. As we have explained in detail in our direct and rebuttal testimony, there
22		will be approximately 10,690 MW of generating capacity in the City if only those
23		units currently under construction (East River Repowering, Ravenswood
24		Cogeneration, and NYPA Poletti Expansion) and SCS Astoria are completed.
25		This represents 8,840 MW of existing summer capacity and 1,950 MW of new
26		capacity.
27		If you assume a projected peak load of 11,935 MW in 2008, as we believe is
28		reasonable, the 80 percent in-City requirement would be 9,550 MW. This means
29		that, at a minimum, there will be about 1,150 MW (i.e., 10,690 MW minus 9,550
30		MW) above the minimum requirement. If either the Astoria Repowering Project

l	or the Cross Hudson Cable is in service in 2008, there will be another 462 MW to
2	550 MW of capacity available: meaning that there would be about 1,700 MW of
3	capacity in the City above the minimum requirement. If both the Astoria
4	Repowering Project and the Cross Hudson cable are in service, there would be
5	about 2,100 MW of capacity in the City above the minimum requirement.
6	At the same time that he understates the amount of capacity that will be available
7	in New York City in 2008, Mr. Younger overstates the percentage of the in-City
8	capacity that would be eligible for any price reductions resulting from the
9	availability of additional capacity and changes in prices along the demand curve.
10	At present, 92.5 percent of the capacity requirements in New York City are under
11	contract – therefore, only 7.5 percent are not under contract. With only a cursory
12	analysis, Mr. Younger assumes that the percentage of capacity requirements not
13	under contract will grow to at least 50 percent by 2008.
14	As we have explained in our rebuttal testimony, a significant amount of capacity
15	in New York City is either under price caps or is subject to very long term
16	contracts. Thus, the percentage of capacity not under contract is unlikely to grow
17	as quickly as Mr. Younger claims.
18	Mr. Younger also ignores the fact that to a significant extent Con Edison and
19	NYPA are both sellers and buyers of capacity. Indeed, by 2008, Con Edison will
20	be a seller of approximately 1,900 MW of capacity and NYPA will be a seller of
21	another 1,850 MW of capacity. Consequently, Con Edison's "savings" from
22	lower capacity prices due to the TGE facility would be substantially lower than
23	the figures in rebuttal exhibit MY-1 would suggest: any lower prices that Con
24	Edison will pay for the capacity it might purchase subject to the demand curve
25	will be offset to a large extent by the reduced revenues it will earn on the sale of
26	its 1,900 MW of capacity. Thus, Con Edison's customers would not see any
27	"savings" due to reduced capacity prices for this 1,900 MW of capacity. The same
28	is largely true for NYPA and its customers.

Schlissel-Keith Rebuttal Testimony, at page 4, lines 16-19.

1 2		These two factors together suggest that, at most, 25 percent of the capacity in New York City actually will be eligible for or will reflect the effect of capacity
3		cost reductions from changes in the prices along the demand curve due to the availability of the TGE facility.
5	Q.	Have you revised Mr. Younger's new analysis to reflect the availability of
6		more capacity in addition to TGE and the fact that less of the in-City
7		capacity actually will be eligible for price reductions?
8	A.	Yes. Surrebuttal Exhibits SK-1 and SK-2 present modified versions of Mr.
9		Younger's Rebuttal Exhibit MY-1 that add (1) additional columns for 1,150 MW
10		and 1,700 MW of capacity above the minimum requirements and (2) additional
11		rows to reflect the fact that less than 50 percent of the in-City capacity will be
12		eligible for or will feel the effect of lower capacity prices.
13	Q.	What are the results of your revisions to Mr. Younger's analysis?
14	A.	If no capacity is added beyond the new in-City plants under construction and SCS
15		Astoria, the addition of the TGE facility could be expected to produce, at most,
16		\$50 to \$90 million of capacity cost savings during summer months and no savings
17		during winter months.
18		If, as we believe is reasonable to expect, either the Astoria Repowering Project or
19		the Cross Hudson Cable are in service by 2008, the addition of the TGE facility
20		could be expected to produce, at most, \$1 to \$3 million of capacity cost savings
21		during summer months and, again, no savings during winter months.
22		If both the Astoria Repowering Project and the Cross Hudson Cable are in service
23		by 2008, the addition of the TGE facility could be expected to produce no
24		capacity cost savings during either summer or winter months.
25		However, it is important to remember that these figures are based on the current
26		demand curve which is projected to be revised before 2008. These forecast
27		savings may be lower under a revised demand curve.

1	Q.	Does this complete your surrebuttal testimony?
2	A.	Yes.
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**Summer Savings from added Transgas capacity** 

	Summer Savings	ii oiii auu	eu mansy	as capac	ıty								
	MW Summer Capacity Exceeds the Minimum Requirement	0	200	400	600	800	1000	1150	1200	1400	1600	1700	1800
	% of Requirement Under Contract					Sum	nmer Savii	ngs in Milli	ons of Do	llars			_
Capacity under existing contract	0%	438	458	477	497	418	333	268	245	153	58	9	0
Capacity under existing contract	10%	391	411	431	450	380	303	244	223	140	53	8	0
Capacity under existing contract	20%	345	364	384	403	341	273	220	202	127	48	8	0
Capacity under existing contract	30%	298	317	337	357	302	243	196	180	113	43	7	0
Capacity under existing contract	40%	251	271	290	310	264	213	172	158	100	38	6	0
Capacity under existing contract	50%	204	224	244	263	225	183	148	136	87	33	5	0
Capacity under existing contract	60%	158	177	197	216	187	152	124	115	73	28	5	0
Capacity under existing contract	70%	111	130	150	170	148	122	100	93	60	23	4	0
Capacity under existing contract	75%	87	107	127	146	129	107	88	82	53	21	3	0
Capacity under existing contract	80%	64	84	103	123	109	92	77	71	46	18	3	0
Capacity under existing contract	90%	17	37	56	76	71	62	53	49	33	13	2	0

Winter Savings from added Transgas capacity														
	MW Winter Capacity Exceeds the Minimum Requirement	750	950	1150	1350	1550	1750	1900	1950	2150	2350	2450	2550	
	% of Requirement Under Contract		Winter Savings in Millions of Dollars											
Capacity under existing contract	0%	439	355	268	177	82	0	0	0	0	0	0	0	
Capacity under existing contract	10%	395	320	242	160	75	0	0	0	0	0	0	0	
Capacity under existing contract	20%	351	285	216	143	67	0	0	0	0	0	0	0	
Capacity under existing contract	30%	307	250	190	127	59	0	0	0	0	0	0	0	
Capacity under existing contract	40%	263	216	165	110	52	0	0	0	0	0	0	0	
Capacity under existing contract	50%	219	181	139	93	44	0	0	0	0	0	0	0	
Capacity under existing contract	60%	176	146	113	77	36	0	0	0	0	0	0	0	
Capacity under existing contract	70%	132	111	87	60	29	0	0	0	0	0	0	0	
Capacity under existing contract	75%	110	94	74	51	25	0	0	0	0	0	0	0	
Capacity under existing contract	80%	88	76	62	43	21	0	0	0	0	0	0	0	
Capacity under existing contract	90%	44	42	36	26	14	0	0	0	0	0	0	0	
Capacity under existing contract	100%	0	7	10	10	6	0	0	0	0	0	0	0	