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Working for your business. Working for South Australia



Dear Sir/Madam

I write in response to SA Power Networks' 2017-20 Tariff Structure Statement proposal. With funding from Energy Consumers Australia, Business SA, in conjunction with the South Australian Wine Industry Association has undertaken a joint research project to determine how proposed changes will impact small business. We have investigated a range of sectors with a focus on energy intensive industries such as wine making. Our attached submission comprehensively articulates and evidences recommendations to ensure the best outcome for South Australia's small business sector and the broader economy. In doing so, we acknowledge the following key points:

- In making its final decision, the AER must consider that business needs access to data before making informed decisions on whether or not to switch to demand based tariffs.
- A peak demand period for small business from 12pm to between 4pm and 6pm better reflects that over 70% of small business demand peaks occur during this period.
- Based on the likely cost of smart meters, the proposed tariff structure may not provide significant enough incentive for businesses consuming below 80 MWh per annum to transition to cost-reflective tariffs prior to 2020.
- Reconsider the automatic assignment trigger to demand tariffs so as to be based on
 criteria that are demonstrably linked to peak demand resulting from alterations and
 upgrades. Whilst we have a shared belief in reducing network peak demand, the current
 trigger proposal presents some risk of creating impediments to small businesses
 undertaking otherwise cost and energy effective investments.
- A broad scale trial of advanced interval metering specifically for small businesses across a range of industry sectors should be funded by SA Power Networks.

Should you require any further information, please contact Andrew McKenna, Senior Policy Adviser, on (08) 8300 0000 or andrewm@business-sa.com.

Yours sincerely.

Nigel McBride Chief Executive Officer

Business SA

Brian Smedley Chief Executive

South Australian Wine Industry Association







Analysis of impacts of SAPN's 2017-2020 Tariff Structure Statement (TSS) on South Australian SME Businesses

Submission to AER Issues Paper

June 2016









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Executive Summary

Given the impact of electricity costs on South Australian businesses, it is critical that the proposed cost-reflective tariff reforms outlined in SA Power Networks (SAPN) Tariff Structure Statement 2017-2020 (TSS) do not unnecessarily impose further costs on SME businesses (consuming less than 160MWh per annum).

Based on findings from our industry consultation, Business SA, in conjunction with the South Australian Wine Industry Association, makes a range of recommendations related to the following features of the SAPN TSS:

Recommendations

Proposed demand-based tariff structure

1. Education & capacity building

To overcome the lack of knowledge in understanding the concept of electricity demand (as it relates to their electricity bills) and opportunities to manage/shift demand, we strongly recommend that SAPN support Business SA and the South Australian Wine Industry Association (SAWIA) in the implementation of a formal program of education and capacity-building. This program would be specifically targeted to SME businesses, and would provide them with the necessary information and tools to help them understand their existing demand patterns, explore options to manage their peak demand and enable them to make informed decisions as to which tariff option is best suited to their business. Supporting such a program would be in SAPN's interests in order to improve the uptake of tariff reforms amongst the business community and reduce public backlash. This program should commence prior to July 2017 and run for at least the first 12 months of the transition period (i.e. 2017-18). Where appropriate, the support of such a program should be formally recognised in SAPN's proposed tariff roll-out strategy.

2. Installation of smart meters without triggering a transition

Consideration should be given into the possibility of allowing businesses the option of installing an advanced interval meter, without triggering a transition to a demand-based tariff, and allowing them to monitor and understand their consumption and demand profile over the period of a year before they decide whether to opt-in to the fully cost-reflective tariff or transition demand tariff, or remain on the consumption usage tariff. SAPN or the retailer could automatically put the customer onto the tariff that works best for their individual needs (given the information gained from the smart meter).

3. Consideration of an 'opt-out' clause

In order to encourage the transition to fully cost-reflective tariffs, SAPN and retailers may wish to consider the option of offering an 'opt-out' clause to provide businesses with the flexibility of trailing the new tariff structure, in order to determine whether they are better- or worse-off (and if the latter is the case, reverting back to a usage-based tariff).

Proposed demand Time-Of-Use periods

4 Review peak demand charging window to better reflect business operations

70% of industry consultation participants indicated their maximum demand period is likely to be between 12 noon and 4 to 6pm. SAPN should consider reviewing the peak demand charging window for business, to better reflect standard operating hours (illustrated as predominately 8am–5pm) and reduce the potential for cross-subsidising residential demand. The TSS currently proposes a peak demand window for business from 12-9pm, which does not seem cost-reflective given that (from SAPN's own analysis) business demand decreases around 4pm, with the residential demand significantly outweighing business demand from 4pm onwards. SAPN should review the peak demand window to ensure that businesses are not cross-subsidising residential demand, and adjust the window to better reflect whether business or residential is driving demand (e.g. adjust peak demand for business from 12-5pm).





5. Communication with businesses at the end of the transition period

Provision should be made for additional consultation and communication towards the end of the transition period to inform and educate businesses on the tariff changes once on the fully-cost reflective tariff (i.e. going from one demand charge from 12-9pm across the whole year, to two demand charges – shoulder and peak – charged at different months of the year and times of the day).

Proposed transition period & assignment triggers

6. Revise assignment equipment install >25amps

SAPN should consider revising the >25amp assignment trigger threshold for major alterations, in order to prevent dis-incentivising businesses from investing in business improvements and capital upgrades that lead to business growth. Ideally the removal of this trigger is the most preferable option, however if the trigger is retained then it is suggested to limit the assignment trigger to particular types of equipment that are major contributors of demand (e.g. air-conditioning equipment).

- 7. Revise assignment supply alteration trigger
 - SAPN should consider an option for businesses to undertake a non-mandatory reassignment of upgrading meters for a predetermined period of time (e.g. 1 year) to allow them to gain an understanding of their load profile and assess the potential cost impacts from the transition and fully cost-reflective tariffs.
- 8. Provide further explanation on the reasoning behind the consumption threshold
 It is not clear from the TSS as to why the >40MWh threshold has been selected, particularly given that the tariff reforms are based around demand, not consumption. SAPN should provide adequate reasoning as to why this threshold was selected, and to what extent are small energy users (e.g. those between 40-60MWh) are significant contributors to peak demand, versus larger energy users in the 40-160MWh consumption range.
- 9. SAPN to provide a clear position on what would happen if a business decreases consumption below 40MWh after being placed on a demand-based tariff

SAPN's analysis states that over 45% of businesses within the 10-40MWh range are worse-off on a demand-based tariff; businesses are therefore at risk of being worse-off on a demand-based tariff is they were to remain on such a tariff whilst reducing their energy consumption to below 40MWh per annum (either through energy efficiency improvements or a decline in business growth/activity).

Accordingly, Business SA is seeking clarification from SAPN on what the process would be if a business decreased their consumption to below 40MWh after being assigned to a demand-based tariff. This issue could be overcome by including some form of 'opt out' clause if they reduce their consumption to less than 40MWh (and are worse-off under a demand-based tariff).





10. Extend the commencement or the duration of the transition period

In the absence of other recommendations listed above (and previous sections) being adopted, businesses need time to adequately understand their demand profile, identify potential opportunities to manage/minimise peak demand and action them. Evidence from the majority of businesses that participated in Business SA's stakeholder interviews, is that this level of preparation is not possible within the proposed transition timeframe, given the current lack of information in the market on these reforms and any kind of incentives or packages offered by retailers to install advanced interval meters. SAPN may wish to consider revising the commencement date or duration of the transition period; coupled with the education/capacity-building program suggested in earlier recommendations, this may improve the ability of businesses to respond to the tariff reforms, and hence support SAPN's proposed adoption rates under the TSS.

Metering requirements

11. Reschedule transition period to align with retailer timeframes

The TSS states that a retailer-led roll-out of advanced interval meter installations will be sufficient to increase uptake in South Australia, however this roll-out may not come into effect until December 2017 i.e. six months into the transition period, which further delays and hinders the ability for SME businesses to evaluate and respond to the proposed demand-based tariffs. SAPN should consider postponing the commencement date of the transition period (e.g. to December 2017 or July 2018) to align with the meter roll-out timeframes proposed for retailers.

12. Run program trialing advanced interval metering with SME businesses

SAPN should consider supporting a broad-scale trial of advanced interval meter installations with SME businesses to provide evidence-based examples to the business community of the impacts and implications of the tariff reforms across key industry sectors and business types/sizes between 40-160MWh. This trial may be conducted in partnership with retailers and Business SA together with key industry associations including the South Australian Wine Industry Association.

Provision of information and assistance to businesses

13. Develop Tariffs Information Pack targeted to SMEs

SME businesses would benefit from key industry bodies such as Business SA, ideally with the support of SAPN, putting together an information pack with coverage of the proposed tariff reforms, their implications (both positive and negative) to SME businesses, steps businesses can undertake to understand how this might impact them, and opportunities to improve the management of their demand. This information pack should be highly visual and use layperson language, and can be used for developing materials such as brochures, fact sheets and case studies, as well as for use in the delivery of workshops/seminars.

14. Develop 'tariff calculator'

The AER should consider funding for a 'demand tariff calculator' for SME businesses developed through either SAPN or Business SA, to provide businesses with the means of assessing the impact of the tariff reforms on their business (and what type of impact, either positive or negative, might upgrades or demand-improvements have on their overall cost position); this tool could be publically accessible by all businesses (and potentially hosted by organisations such as Business SA).

15. Establish a one-on-one assistance program for SME businesses

The AER should consider funding for Business SA and key industry associations like the South Australia Wine Industry Association to establish one-on-one assistance programs for their membership, providing businesses with the means of accessing support from experts to both assess the impact of tariff reforms on their business, and identify/implement demand management improvements.





1. Introduction

Rising electricity costs over the past decade have been predominantly driven by network price rises (until recently), significantly impacting South Australian businesses. Given the substantial increase in wholesale energy costs in South Australia since mid-2015, it is even more critical that the proposed cost-reflective tariff reforms outlined in SA Power Networks (SAPN) Tariff Structure Statement 2017-2020 (TSS) do not unnecessarily impose further costs on SME businesses.

Business SA, in conjunction with the South Australian Wine Industry Association (SAWIA), have commissioned engineering consulting group 2XE to undertake a quantitative and qualitative analysis of the TSS that investigated the impacts, both positive and negative, on SME businesses. The Industry consultation process consisted of a combination of stakeholder interviews and tariff analysis with a representative group of businesses across key industry sectors and electricity consumption ranges. Overall 25 businesses participated in the stakeholder interviews, with 15 businesses opting to further provide their available electricity data for analysis to assess the potential cost impacts.

This project was funded by Energy Consumers Australia Limited (www.energyconsumersaustralia.com.au) as part of its grants process for consumer advocacy projects and research projects for the benefit of consumers of electricity and natural gas.

The views expressed in this document do not necessarily reflect the views of Energy Consumers Australia.

1.1. Industry Consultation Process

SME businesses were invited to participate in the Study through expression of interest emails and phone calls. Table 1 below provides and overview of the SME businesses engaged.

Industry Costor	Number of	Annual electricity consumption				
Industry Sector	businesses	<40MWh	40 – 160MWh	>160MWh		
Administration and support services	3	-	2	1		
Manufacturing and agriculture	5	1	3	1		
Medical	4	4	-	-		
Retail and wholesale trades	5	2	3	-		
Tourism and hospitality	3	1	-	2		
Wineries	5	1	4	-		
Total	25	9	11	5		

Table 1: Overview of SME businesses engaged

All 25 businesses were interviewed using a series of questions and discussion points relating to the following topics:

- The business' current electricity position
- The possible impact of the proposed tariff reforms on the business
- The ability for the business to adapt to the proposed tariffs
- What assistance might the businesses require

Summaries from the interview process are presented in the Findings section under each key features of the TSS. The full industry sector responses to each of the interview questions are provided at *Appendix 1*.





In addition to the stakeholder interviews and to provide more in depth analysis SME businesses were asked if they were willing to provide their electricity billing data to 2XE to evaluate if their businesses would be positively or negatively affected by the proposed tariffs. In total 16 businesses¹ opted to provide their billing data for analysis; those that weren't willing to participate didn't do so because electricity was not a major business expense to them, or they didn't have access to adequate billing data.

Table 2 below, provides a summary of the businesses that participated in the tariff analysis.

Table 2: Summary of SME businesses that participated in the tariff analysis

Industry Coctor	Number of	Annual electricity consumption			
Industry Sector	businesses	<40MWh	40 – 160MWh	>160MWh	
Administration and support services	1	-	-	1	
Manufacturing and agriculture	3	1	1	1	
Medical	3	3	-	-	
Retail and wholesale trades	4	1	3	-	
Tourism and hospitality	1	-	-	1	
Wineries	4	1	3	-	
Total	16	5	6	4	

The tariff analysis involved evaluating each business' current electricity tariff costs against each of the three proposed tariff structures, using the network prices as outlined in the TSS for the 2017/18 financial year. Businesses outside of the proposed consumption thresholds (40-160MWh) were scaled (up or down) to provide a representative analysis for a business of that size within their industry sector.

It is important to note that only the impact of network charges was evaluated, considering these are directly affected by the TSS, while the wholesale energy prices are managed by the retailer. However, in terms of impact from the proposed tariffs, this is presented as a % increase/decrease over the business' total annual electricity spend (wholesale + network).

1.2. Current SME business Tariff Structure

Small/medium (SME) businesses are classified by SA Power Networks (SAPN) as consuming less than 160MWh per annum on a low voltage supply. Network tariffs for these businesses are currently structured to charge purely on electricity consumption (\$/kWh) along with a fixed daily supply charge. Depending on the sites requirements and metering capabilities businesses may be on either a business single rate or business 2 rate tariff, with the structures outlined below.

Low Voltage Business single rate

- Consumption is currently (2015/16 FY) charged on an inclining scale in two consumption blocks
 - o Block 1 applies to the first 833kWh/month
 - o Block 2 applied to the balance of consumption
- As of July 2017, the inclining rate will be removed and businesses will be charged a single rate for consumption

Low Voltage Business 2 rate

- Consumption is broken into two Time of Use (ToU) periods, peak and off-peak
 - Peak, 7am to 9pm on working days

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¹ One business has two separate facilities which have been treated as separate businesses as they have different operations, retail store and distribution warehouse.





- o Off-Peak 9pm to 7am on working days, all day weekends and gazetted public holidays
- Peak consumption is charged at a higher rate than off-peak

A controlled load tariff can also be applied to either of these tariffs for businesses that have an electrical supply point that is controlled by SAPN that provides electricity for pre-determined periods of time each day. This tariff component typically seen in businesses that have electric hot water services.

1.3. SA Power Networks Tariff Structure Statement Overview

All electricity distributors in the National Electricity Market (NEM) are having to respond to the National Electricity Rules (NER) requiring distributors to develop and implement 'cost-reflective' tariffs to assist in managing and maintaining electricity infrastructure to meet infrequent peaks in demand.

In response to this SAPN are proposing to introduce cost-reflective demand-based tariffs for SME businesses with an annual consumption from 40MWh and 160MWh. The new tariffs will be progressively rolled-out from July 2017, and are expected to be in full-effect by 2023.

As of July 2017 the proposed demand-based tariff will be mandatory for all new customers and existing customers who request a significant change to their metering arrangements. These triggers include physical changes to supply, new inverter approval (applicable for solar installations over 2.5kW) and new major appliances with a current draw of >25amps (such as large air conditioning units, refrigeration equipment etc.).

Proposed reassignment of existing businesses (between 40 to 160MWh) onto either a transition usage tariff or transition demand tariff will begin in July 2018, with businesses also being given the option to opt-in to the fully cost-reflective tariff. SAPN are proposing the following cost-reflective tariff structures:

Business transition cost-reflective usage-based tariff

This tariff will be applied to existing customers who do not have an advanced interval meter (Type 6 accumulation meters). The tariff will see businesses remain on a consumption based tariff, with peak consumption prices increasing by approximately 2% each year.

Business monthly actual kW demand transition tariff

This tariff will be assigned to businesses who trigger reassignment through a new connection or request a change to their meter or fall within the consumption thresholds of between 40 and 160MWh This tariff requires an advanced interval meter (Type 1-5 interval meter).

Monthly demand is measured in kW as the maximum half-hour interval of power demand recorded between 12noon and 9pm local SA time on working days (Mon-Fri), with demand charged in \$/kW/day. During the transition period (until end June 2020) the demand charge will not vary seasonally and is charged at 40% of the fully cost-reflective prices. After July 2020 prices will increase by 20% per year until they reach 100% cost-reflective by 2023.

All consumption (kWh) is charged at a single flat rate (\$/kWh).

Business monthly actual kW demand tariff

This tariff is being offered as an 'opt-in' option for businesses with an advanced interval meter (Type 1-5 interval meter) that would be better-off on a demand-based tariff. This tariff is fully cost-reflective (charged at 100%). This tariff will also come into effect for all SME businesses on the demand transition tariff at the end of the transition period, June 2023.

The tariff introduces two separate demand ToU periods to align with summer peak demand on the network, with demand charged in \$/kW/day.





- Summer peak demand, maximum half-hour interval recorded between 12noon and 9pm on working days (Mon-Fri) between November to March. Charged approx. 50% higher than winter shoulder demand.
- Winter shoulder demand, maximum half-hour interval recorded between 12noon and 4pm on working days (Mon-Fri) between April to October

All consumption (kWh) is charged at a single flat rate (\$/kWh). Compared to the transition tariff consumption is charged at lower cost (approx. 30%).

2. Assessment of TSS impacts on SME businesses

The industry consultation process focused on obtaining feedback and observations across the following key features of the SAPN TSS:

- Proposed demand-based tariff structure
- Proposed demand Time-of-Use periods
- Proposed transition period and assignment triggers
- Metering requirements
- Provision of information and assistance to businesses

2.1. Proposed demand-based tariff structure

The demand-based tariff structure proposed by SAPN in the TSS will see customers charged for the electricity they consume, along with their maximum power draw (demand) over a half-hourly period from the network.

Understanding maximum demand is therefore a key factor in determining if a business will be positively or negatively affected by the proposed demand-based tariffs. As part of the consultation process Business SA and SA Wine Industry Association (SAWIA) members were asked about the impacts that a demand-based tariff might have on their business and their ability to manage these impacts.

Findings

Understanding demand

The concept of demand is relatively new for the SME businesses interviewed, as over 50% of participating businesses were not clear of what is meant by demand. Most interviews involved discussion and education on the difference between electricity consumption and demand in order for participants to have some kind of understanding of what the TSS is proposing, and hence its implications to participating businesses.

Businesses were unable to provide an indication of what their maximum demand is likely to be due to limitations in their metering (this is discussed in greater detail in *Section 5.4 – Metering*) and a lack of understanding of demand. Businesses were however able to identify which equipment in their business may be the major contributors to peak demand:

- Refrigerated reverse/cycle air conditioning (medical, admin & support services, tourism & hospitality and retail/wholesale trade)
- Commercial/industrial refrigeration systems (manufacturing and wineries)
- Compressed air systems (manufacturing and wineries)
- Process equipment, e.g. conveyors, hand-held tools (manufacturing and wineries)
- Lighting, in particular high bay lighting (all industry sectors).





Capabilities to minimise or shift demand

Many businesses indicated that there were significant limitations in their ability to minimise or shift demand (to off-peak periods), due to a variety of reasons including:

- The type of equipment used and the critical nature of this equipment to operations (particularly in manufacturing, where low-demand options for demand-intensive equipment such as refrigeration plants are non-existent)
- The 9-to-5 operating hours that are expected by both employees and customers (i.e. it is near-impossible to "off-peak" customers)
- The seasonal nature of the industry sector corresponding with peak-demand periods (for example, the wine industry's vintage period occurring between January-April).

Other businesses interviewed were more accommodating to such opportunities, many of whom have identified possible improvements to their business such as:

- Upgrading ageing equipment (e.g. old air conditioning and refrigeration systems) or upgrading to more energy efficient technologies, such as LED lighting
- Installing solar PV; of the participating business 28% already have solar installed, which is assisting in reducing consumption and off-setting a portion of demand. The majority of businesses with solar installed did investigate battery storage, however none have pursued the option due to:
 - o uncertainties in the technology types/maturity levels
 - o limited export from solar system (i.e. site uses majority of energy generated), and
 - o the high cost of the technology with limited return on investment potential.

Of the businesses that didn't have solar installed a further 36% had investigated the option in the past, however decided it was not feasible for a number of reasons including:

- o Physical/environmental constraints (e.g. shading, dust, availability of roof space)
- Heritage-listed buildings preventing installation
- o The business-case/return on investment was not competitive versus other investments, and
- o The cost impact of moving to a demand-based tariff as a result of installation was too high.

The remaining 36% of businesses had not investigated solar, primarily due to the premises being rented or leased.

 Changing staff behaviour to only use equipment when required, though this remains problematic for several industry sectors, such as medical, manufacturing and wineries.

Demand re-set and opt-in features

The monthly demand re-set was well-received by all participants. The wine industry was particularly in favour of this due to their high peak demand during vintage (typically February – April) that can be up to 3 times higher than their non-vintage maximum demand.

When asked about opting-in to the demand-based tariff every business responded with the same answer -- they would not opt-in without first clearly understanding what their maximum demand is and the resulting cost implications.

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² Based on limited electricity bill and load profile data for 16 facilities across all key sectors





Cost implications to SME businesses under each tariff option

The industry engagement process was accompanied by a quantitative analysis² of the potential cost implications of the TSS on SME businesses between 40-160MWh, across the tariff options of:

- Transition usage-based tariff (single rate or 2-rate for customers with an old accumulation meter)
- Transition demand-based tariff (with demand charges at 40% of final value for 2018-20)
- Fully cost-reflective demand-based tariff (with demand charges at 100% of final value).

The results from the quantitative analysis are illustrated in Table 1 overleaf and Figure 1 on page 10.





Table 3: Tariff analysis results

la di calani a a akan	Annual	Estimated max	Transition Usage Tariff		Transition Demand Tariff		Full cost-reflective demand tariff	
Industry sector	consumption (kWh)	demand (kW)	Difference (\$)	Difference (%)	Difference (\$)	Difference (%)	Difference (\$)	Difference (%)
Medical	42,274	20	\$473	3.6%	-\$374	-2.8%	-\$378	-2.9%
Retail/wholesale trade	42,350	16	\$671	4.8%	-\$995	-7.1%	-\$671	-4.8%
Hospitality and tourism	42,541	20	\$491	4.9%	-\$89	-0.9%	-\$368	-3.7%
Medical	44,864	22	\$630	4.6%	\$58	0.4%	\$121	0.9%
Manufacturing	46,072	29	\$887	7.1%	-\$59	-0.5%	\$369	3.0%
Admin and support services	48,146	30	\$505	4.6%	\$199	1.8%	-\$65	-0.6%
Medical	49,508	26	\$554	5.4%	-\$246	-2.4%	-\$85	-0.8%
Manufacturing	53,289	44	\$981	7.3%	\$1,907	14.1%	\$769	5.7%
Manufacturing	63,719	18	\$717	4.3%	-\$1,265	-7.6%	-\$2,052	-12.3%
Winery	70,104	55	\$875	4.7%	\$431	2.3%	-\$17	-0.1%
Retail/wholesale trade	75,838	22	\$794	3.7%	-\$261	-1.2%	-\$1,141	-5.3%
Retail/wholesale trade	83,206	60	\$1,335	5.1%	-\$462	-1.8%	-\$523	-2.0%
Winery	85,111	41	\$1,445	7.4%	-\$1,861	-9.5%	-\$4,147	-21.2%
Winery	88,702	147	\$851	3.8%	\$3,051	13.8%	\$5,544	25.1%
Retail/wholesale trade	150,701	75	\$1,717	3.0%	-\$799	-1.4%	-\$2,409	-4.3%
Winery	159,626	112	\$1,766	4.9%	\$676	1.9%	\$1,095	3.1%

NOTE: Businesses that will achieve a saving in electricity costs have been highlighted in green, while businesses that will see an increase in electricity costs have been highlighted in red.

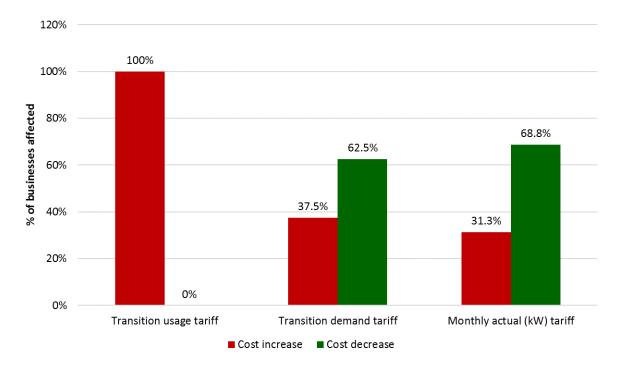


Figure 1: Impact of cost reflective tariff prices vs current prices

As can be seen, under the transition usage-based tariff all businesses would be worse-off with a cost increase of between 3-8% (\$470-\$1,800 per annum) on current electricity costs. Under the transition demand-based tariff, approximately 37.5% of businesses would experience a cost-increase of between 0.5-14% (\$60-\$3,100 per annum), with the remaining 62.5% experiencing a cost-decrease of between 0.5-10% (i.e. reduction in annual electricity cost between \$60-\$1,850). If businesses were to opt-in to a fully cost reflective tariff, approximately 31% of businesses would experience a cost-increase of between 1-25% (\$120-\$5,500 per annum), with the remaining 69% experiencing a cost-decrease of between 0.5-21% (i.e. reduction in bills of between \$17-\$4,150 per annum).

Interpretations

The limited understanding of the concept of demand within the SME business community, coupled with the current limited uptake of advanced interval metering, will make it difficult for these businesses to assess the impacts of the proposed demand-based tariffs on their operations. Without the ability to assess such impacts, SME businesses tend to be skeptical of changes to electricity tariff structures as their immediate impression is that they will be negatively impacted. Even though the quantitative analysis undertaken (as exhibited in Table 3) would indicate that the majority of businesses will be better placed on the proposed demand-based tariff. The absolute cost-savings estimated (in particular for businesses under 80MWh) do not appear compelling- enough for a business to justify taking the risk of purchasing an advanced interval meter, unless they are absolutely certain that they will benefit from the move (which is impossible without an advanced interval meter

– hence a 'catch 22' situation). Without some level of certainty as to how the move will impact their businesses, and/or the promise of significant cost savings (thousands of dollars in savings, rather than hundreds of dollars, presents a much better risk-reward scenario), most SME businesses would struggle making the decision to move to a demand-based tariff (through advanced meter installation) and risk an increase in their electricity costs, despite SAPN's analysis that there will be more 'winners' than 'losers' from the move. As a result of all of these constraints, there is likely to be very limited uptake of the "opt in" option, with the majority of businesses choosing to remain on the transition usage tariffs unless they are forced to move.

Considering these findings and feedback from the SME businesses interviewed, Business SA has further addressed the following 'Questions to Stakeholders' posed by the AER in its Issues Paper (dated March 2016):

Will customers be able to understand the new tariffs to relate their use of electricity to these tariffs and decide how to respond?

The concept of energy demand (and how this may get reflected in their electricity bills) is a relatively new concept for the majority of SME businesses; this lack of prior knowledge will make understanding the new tariffs difficult for businesses. The limited understanding of what their potential maximum demand may be (in the absence of an advanced interval meter), and how this impacts on their total electricity costs, will hinder the uptake of the new tariff structure.

The suggestion was raised by the Electricity Advisory Panel to allow businesses to remain on a usage-based tariff when an advanced interval meter is installed. We suggest revisiting this option and considering it for inclusion within the TSS, as this approach would allow businesses with the option to install a smart meter without being placed directly onto a demand-based tariff, providing them with a transition period where they are able to measure and monitor their demand prior to selecting a tariff. Additionally, the idea was put forward by SME businesses of having an opt-out clause; this may be well-received as it would assist in removing any reluctance to opt-in to a tariff if they were potentially significantly worse-off.

What are the advantages and disadvantages of the proposal to have a minimum level of demand in demand based tariffs instead of including a direct fixed charge component?

Realistically, there may not be much of a cost difference between a fixed supply charge and the proposed 1kW minimum demand charge. However, the concept of eliminating fixed charges from electricity tariffs is generally welcomed by most businesses.

What are the advantages and disadvantages of calculating a demand tariff over a narrow 30min period as opposed to two hours as SA Power Networks intends to explore?

The 30min period provides continuity between tariff structures across both large and SME businesses, allowing all businesses to be treated equally. However, the short 30min period requires businesses to manage their demand more closely as the window is more sensitive to a spike in demand than a 2hr period. SME businesses would respond favorably to increasing the demand window to 2hrs as there is less pressure for them to manage demand as tightly. As per earlier recommendations, businesses need more education around managing demand; if this is fulfilled then the demand window becomes less of an issue.

What are the advantages and disadvantages of SA Power Networks offering additional opt-in tariffs, including more cost reflective variants of the proposed demand tariff or other tariff designs?

Having additional tariff designs provides the advantage of allowing businesses to select a tariff that suits their demand profile and operating constraints.

In addition to the capacity-based tariff option, some stakeholders have made mention of Critical Peak Pricing (CPP) as an alternative tariff option. The proposed tariff reforms do not use CPP, however SME businesses would be interested in exploring this option if were best suited to their operating conditions.

While there are some clear advantages of additional tariff options, the lack of knowledge of electricity tariffs and demand may result in SME businesses becoming unnecessarily confused from being provided 'too many' options.

Are there practical impediments to offering a menu as opposed to a set of opt-in tariffs?

Similar to our response in the previous question, the concept of having a "tariff menu" sounds good in theory as it provides flexibility and choice for businesses, but in reality this might be hard for businesses to digest. The general lack of knowledge within the SME business community regarding electricity tariffs and how different tariffs may impact on overall electricity costs may make the process of selecting a tariff difficult for businesses. SME business are typically time-constrained and resource-poor, and therefore have relatively little time to spend in evaluating different tariff options. This was evident from the consultation process that revealed 30% of participating business typically accepted contract renewals from retailers without undertaking any form of market research.

Recommendations

Based on the findings obtained from our engagement with SME businesses on the proposed demand-based tariff structure, Business SA makes the following recommendations:

- 1. Education & capacity-building. To overcome the lack of knowledge in understanding the concept of electricity demand (as it relates to their electricity bills) and opportunities to manage/shift demand, we strongly recommend that SAPN support Business SA and SAWIA in the implementation of a formal program of education and capacity-building. This program would be specifically targeted to SME businesses, and would provide them with the necessary information and tools to help them understand their existing demand patterns, explore options to manage their peak demand and enable them to make informed decisions as to which tariff option is best suited to their business. Supporting such a program would be in SAPN's interests, in order to improve the uptake of tariff reforms amongst the business community and reduce public backlash. This program should commence prior to July 2017 and run for at least the first 12 months of the transition period (i.e. 2017-18). Where appropriate, the support of such a program should be formally recognised in SAPN's proposed tariff roll-out strategy.
- 2. Installation of smart meters without triggering a transition. Consideration should be given into the possibility of allowing businesses the option of installing an advanced interval meter, without triggering a transition to a demand-based tariff, and allowing them to monitor and understand their consumption and demand profile over the period of a year before they decide whether to opt-in to the fully cost-reflective tariff or transition demand tariff, or remain on the consumption usage tariff. SAPN or the retailer could automatically put the customer onto the tariff that works best for their individual needs (given the information gained from the smart meter).
- 3. Consideration of an 'opt-out' clause. In order to encourage the transition to fully cost-reflective tariffs, SAPN and retailers may wish to consider the option of offering an 'opt-out' clause to provide businesses with the flexibility of trailing the new tariff structure, in order to determine whether they are better- or worse-off (and if the latter is the case, reverting back to a usage-based tariff).





2.2. Proposed demand Time of Use periods

For the proposed demand-based tariffs, SAPN are proposing the following demand Time of Use (ToU) periods for monitoring maximum demand:

- Transition demand tariff 12noon to 9pm on working days all year round
- Monthly actual kW demand tariff
 - o Summer Peak ToU, which applies from 12noon to 9pm on working weekdays over November to March
 - o Winter Shoulder ToU, which applies from 12noon to 4pm on working weekdays over April to October.

Findings

All SME businesses interviewed indicated that they have set trading/operating hours based on customer and process requirements. The typical operating hours (when staff are present) across each industry sector is highlighted overleaf in Table 4. Only the tourism & hospitality industry sector was observed to operate after 6pm on working days (Mon – Fri). This was also the only industry sector that operated consistently on non-working days (i.e. weekends and public holidays).

Table 4: Typical operating hours across industry sectors

Based on their hours of operations, businesses were asked to estimate when their peak demand was likely to occur, a summary of their responses is illustrated overleaf in Figure 2. The majority of businesses agreed that the proposed shoulder demand ToU period was largely reflective of their highest demand periods, with over 70% of participants indicating that this is likely to be between 12 noon and 4 to 6pm (depending on operating hours). Businesses were uncertain about the peak demand charge over the 12noon to 9pm ToU window (proposed over the transition period and under the fully cost-reflective scenario), as they felt this was not reflective of their operating hours; with exception to tourism and hospitality, most other industry sectors operate over a 6am-6pm ToU window.





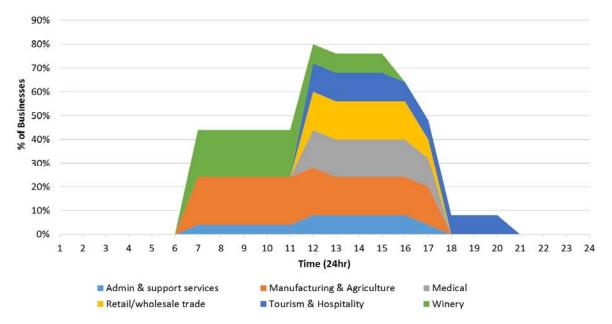


Figure 2: Business views on when their peak demand occurs

Businesses were asked if they had an ability to shift their demand outside of the proposed demand ToU periods. The majority of businesses indicated that this would not be possible as they have set operating hours with their peak demand being linked to either maintaining customer needs and expectations (such as patient comfort in medical facilities), or critical to maintaining production process and product quality (for example, two wineries had previously explored the option of starting production earlier in the day, however the electricity savings were not significant enough to outweigh the higher labour penalty rates).

Interpretations

The majority of SME businesses, in particular medical, tourism & hospitality and retail/wholesale trade had predetermined operating hours, based on when customers require them to be operational. Rigid operating hours limits a business's ability to shift equipment loads to better manage demand during the proposed demand ToU periods.

The proposed winter shoulder demand window (12-4pm, April to October) aligns with businesses views on when their peak demand is likely to occur. However, the proposed summer peak demand ToU windows (12-9pm year-round during the transition period, and from November-March under fully cost-reflective tariff) are less cost-reflective as the majority of businesses (the exception being tourism & hospitality) are non-operational for between 3-4 hours of the proposed period. A review of SAPN's small business demand profile (Figure 2 – customer segment MW demands on 16th Jan 2014, on page 18 of the TSS) would support this as business demand decreases in late afternoon, with the residential demand significantly outweighing SME business demand from 4pm onwards. Having the ToU periods extend to 9pm (rather than end at 5pm) give the perception that SME businesses are cross-subsiding residential demand, which from SAPN's analysis is the significant driver of demand (rather than business) from 4-9pm (with technologies such as residential air conditioning a major contributor to demand).

Considering these findings and feedback from the SME businesses interviewed, Business SA has further addressed the following 'Questions to Stakeholders' posed by the AER in its Issues Paper (dated March 2016):





Does the tariff statement sufficiently inform stakeholders on the times, days and months when the network is likely to be under most stress and therefore the ideal timing of the charging windows?

While the TSS does inform stakeholders on the times, day and months when the network is under the most stress, the information only begins to be presented on page 17. As the majority of SME businesses are time-poor, it is unlikely that they would take the time to scroll through the TSS until they find this information.

The TSS illustrates that SME business contribute the majority of daytime demand up to 4pm when residential takes over, which aligns with the proposed summer peak demand charging window. However, no clear explanation has been provided as to why the peak demand charging windows are set until 9pm for businesses, as clearly residential is driving a significant majority of demand from 5-9pm, relative to business.

What are the advantages and disadvantages of the 'transitional' demand tariff (being assigned to certain customers) not reflecting seasons (that is, not charging higher summer vs winter)? And

What are the advantages and disadvantages of the 'transitional' demand tariff (assigned to customers), having its level increasing over 6 years, and not reflecting a higher summer vs winter charge?

The "transitional" demand tariff makes the demand-based tariff structure simpler for businesses to understand, and the lower cost for the first few years will assist in reducing the potential cost impact on businesses that are reassigned.

However, by not reflecting the seasonal cost variation and charging windows, this will require business to adjust a second time when the transition period comes to an end. This may cause confusion and potential tension within the SME business community as they have started to adjust to transition tariff and then the structure is changed again within a relatively short timeframe.

Recommendations

Based on the findings obtained from our engagement with SME businesses on the proposed demand ToU periods, Business SA makes the following recommendations:

- 1. Review peak demand charging window to better reflect business operations. 70% of participants indicating that there maximum demand period is likely to be between 12 noon and 4 to 6pm. SAPN should consider reviewing the peak demand charging window for business, to better reflect the standard operating hours of businesses (illustrated as predominately 8am–5pm) and reduce the potential for cross-subsidising residential demand. The TSS currently proposes a peak demand window for business from 12-9pm, which does not seem cost-reflective given that (from SAPN's own analysis) business demand decreases around 4pm, with the residential demand significantly outweighing business demand from 4pm onwards. SAPN should review the peak demand window to ensure that businesses are not cross-subsidising residential demand, and adjust the window to better reflect whether business or residential is driving demand (e.g. adjust peak demand for business from 12-5pm).
- 2. Communication with businesses at the end of the transition period. Provision should be made for additional consultation and communication towards the end of the transition period to inform and educate businesses on the tariff changes once on the fully-cost reflective tariff (i.e. going from one demand charge from 12-9pm across the whole year, to two demand charges shoulder and peak charged at different months of the year and times of the day).





2.3. Proposed transition period & assignment triggers

SAPN are proposing a transition period of 6 years, beginning in July 2017, with all business with electricity consumption greater than 40MWh being transitioned to 100% fully cost-reflect tariffs by June 2023.

For the first year (2017/18) only new customers and existing customers that make alterations to their supply will be reassigned to the transition demand tariff. Alteration triggers include:

- Physical changes to supply/metering
- Installation of solar PV above 2.5kW
- Installation of equipment above 25amps.

From July 2018 onwards all businesses that have an advanced interval meter (Type 1-5) will be reassigned to the transition demand tariff. Businesses without an advanced interval meter (Type 6) will move to a transition usage tariff (i.e. charged by consumption only, in \$/kWh) until such time when an advanced interval meter is acquired.

Findings

Proposed transition period

The businesses interviewed responded well to the concept of having a transition period, in particular that demand would only be charged at 40% of fully cost-reflective prices during this time. Concern was raised around the start date of the transition period (July 2017), primarily due to their very limited level of understanding around what their peak demand may be and how they could go about minimising the cost impact on their business once the transition period begins. Many businesses indicated that even once they understand what the cost implications of the new tariff structures would be to their business, they would need between 12-18 months to adequately plan and raise the appropriate capital to invest in business improvements that reduce demand. 90% of the businesses interviewed indicated that, until they were approached by Business SA for this industry consultation process, they had no prior knowledge of the reforms that SAPN were proposing, effectively suggesting that they may need more time (e.g. via extending the start date of the transition period) to understand the cost implications and prepare for the necessary investments in their business.

Reassignment triggers – installation of equipment >25amps

The reassignment trigger of installation of equipment >25amps was not well-received by businesses. 20% of the businesses interviewed, predominately from the manufacturing and wine industries, indicated they would be reluctant in pursuing investment in any kind of new equipment as a result of the trigger. Other industry sectors indicated this trigger was not currently relevant for them as they were not planning any upgrades over the next few years.

Reassignment triggers – supply alterations and solar PV installation

Several businesses indicated that they would like to install an advanced interval meter to better understand their demand, however they were against automatic reassignment as they were fearful that their electricity costs would increase as a result. Additionally, businesses that were considering solar PV to reduce electricity costs, would have to re-evaluate the business case due to the lower consumption charge c/kWh on the demand- based tariffs.





Consumption thresholds

The businesses interviewed represented a range of energy consumption levels. Quantitative analysis of the proposed tariff structures (across usage-based, transition demand and fully cost-reflective demand tariffs) on annual electricity costs for 16 businesses; revealed that the impact did not favor a particular consumption volume (refer to Table 3 on back on page 9). For example, smaller businesses (40-60MWh range) were negatively affected as much, by way of % in annual electricity cost increase, as larger businesses (100-160MWh).

Interpretations

As mentioned previously the majority of businesses are unaware of what their demand profile is and how this relates to the proposed demand-based tariffs. Businesses need time to adequately understand their demand profile, identify potential opportunities to manage/minimise peak demand and action initiatives (e.g. change staff behavior, invest in energy efficient equipment etc.); for the majority of participating businesses this is not possible within the proposed transition timeframe, given the current lack of information in the market on these reforms and any kind of incentives to install advanced interval meters.

Installing an advanced interval meter will enable businesses to be able to understand their peak demand. Alternatively, they may wish to pay for temporary monitoring of their supply, however this may also prove costly if the monitoring equipment/services are leased for a long period of time. The automatic reassignment based on upgrading meters may be counterproductive to SAPN's objectives as SME businesses are unlikely to risk investing in equipment that in their view may leave their business with higher electricity costs.

There are serious concerns around trigger reassignment from installing equipment over 25amps. Such a trigger may lead to businesses postponing or forgoing upgrades to their facilities (particularly those that help the business grow) from fear of the potential cost implications from reassignment. Such a reaction from business is not conducive to fostering a business environment which should be stimulating business investment (not hindering it), particularly in a struggling economy like South Australia's. This concern is shared across the key industry sectors interviewed, but especially relevant to industries exposed to high-costs and cost-competitive markets, such as manufacturing and wineries. SAPN must not unnecessarily jeopardise the future growth of SME businesses, which make-up a significant proportion of economic activity and jobs in South Australia, with tariff reforms that hinder their ability to make sound investment decisions.

The fact that the proposed tariff structures do not discriminate between consumption volumes can be taken as either a positive or a negative - positive in the sense that the tariffs may not unfairly target a particular size of business, and negative in that the smaller businesses (with smaller budgets and bigger constraints) are affected just as much as bigger businesses (with better access to capital). The earlier consultation paper prepared by SAPN show the distribution of businesses that would be positively and negatively affected (% increase against current prices) based on their consumption volumes. The graphs illustrate that a higher proportion of business below 60MWh are negatively affected by the proposed tariff, than above 60MWh. These graphs are not presented in the TSS and it is unclear from the information provided in the TSS as to why the >40MWh threshold has been selected, i.e. to what extent are businesses with annual electricity consumption between 40-60MWh significant contributors to peak demand, versus companies between 60-160MWh. Additionally, Business SA are interested to learn of any analysis that SAPN may have conducted on scenarios where a business, that consumes >40MWh and is moved to a demand-based tariff, eventually reduces its energy consumption to <40MWh (either through efficiency or a decline in business growth/activity). Does that business get moved back to a consumption-based tariff or remain on a demand-based tariff? And if the latter is the case, what is





the impact of the demand-based tariff on businesses <40MWh? SAPN's analysis states that over 45% of businesses within the 10-40MWh range are worse-off on a demand-based tariff; businesses are therefore at risk of being worse-off on a demand-based tariff if they were to remain on such a tariff whilst reducing their energy consumption to below 40MWh per year. SAPN may therefore wish to consider including some form of 'opt out' clause if they reduce their consumption to less than 40MWh (and are worse-off under a demand-based tariff).

Considering these findings and feedback from the SME businesses interviewed, Business SA has further addressed the following 'Questions to Stakeholders' posed by the AER in its Issues Paper (dated March 2016):

What are the advantages and disadvantages of assigning a demand tariff to customers consuming above a threshold or triggering an assignment by having a new/altered connection?

As mentioned above, triggering assignment based on an altered connection may negatively affect the appetite of business to invest in expanding/growing its own operations, unless they are able to obtain an understanding of the impact that a move to a demand-based tariff will have on their overall cost-base (once the new equipment is installed). In order to obtain this understanding, an advanced interval meter must be installed; however once this is installed, assignment to a demand-based tariff is triggered. SAPN should consider the option of excluding certain types of equipment from the 'trigger list' for a period of time (such as refrigeration equipment for SME food/beverage manufacturers and wineries), in order to enable trade-exposed businesses to better understand their demand profiles and improve cash flows to deal with the inevitable impacts that the move to cost-reflective tariffs may bring.

What are the advantages and disadvantages of new investment customers' and customers consuming above a threshold being automatically assigned a new demand tariff?

Triggering an assignment for a new connection may not present as much of an issue to a new business, given that they may not have a previous electricity cost baseline to compare against.

With respect to consumption thresholds, it is not clear from the TSS as to why the >40MWh threshold has been selected, particularly given that the tariff reforms are based around demand, not consumption. Without clarification from SAPN as to why this threshold was selected, it is difficult to ascertain the advantages and disadvantages of consumers consuming above this threshold to be automatically assigned a new demand tariff.

Will customers sufficiently understand the proposed triggers and thresholds for being assigned a demand tariff at the time of making investment (e.g. solar panels, 3-phase power etc.) What practical challenges might result?

At the current level of knowledge prevalent in the SME business community, it is unlikely that there will be sufficient understanding on the proposed triggers and thresholds at the time of making investment. The practical challenges that may result is that businesses are making upgrades based on incomplete businesses cases that may leave them worse-off in the long run.

Do existing customers require greater protection from tariff change impacts compared to new customers or customers making new investments (such that they might require a new smart meter)? And

Do existing customers require a greater protection from the impact of tariff changes than customers who are new or making significant investments?

Based on engagement with businesses through this industry consultation process, existing customers and customers making new investments require greater protection from tariff change impacts. Existing businesses are operating within the constraints of existing infrastructure and operations with limited understanding on their demand and how to manage/minimise the associated cost impacts. Additionally, it is important to the South Australian economy that the tariff changes are not negatively affecting the appetite





of businesses to invest in upgrades that foster growth; the proposed >25amp trigger may result in the unintended consequence of businesses delaying or foregoing investment decisions, due to a lack of understanding as to how the move to demand-based tariffs will affect their cost base.

New connection customers are required to install an advanced interval meter to meet the meeting requirements for new connections. Furthermore, they may have greater flexibility to manage their potential maximum demand as part of the business set-up planning.

Has SA Power Networks sufficiently customised its customer impact information identifying the benefits of opting-into a demand tariff or merit of proposed transitions for customers assigned a demand tariff?

The customer impact information provided by SAPN has provided some level of information with respect to identifying the quantitative benefits of opting-into a demand tariff, however this information is high-level and not readily accessible by or communicable to SME businesses. It is understood that during SAPN's original business consultation process that specific examples were presented on the potential cost impacts for a range of SME businesses types; since this consultation these case examples have not been further used. Both SAPN and businesses would stand to benefit by SAPN providing a set of 'load profile examples' to demonstrate what kinds of businesses might be better off or worse off (this may then spark interest amongst businesses to install an advanced interval meter to determine their load profile).

Recommendations

Based on the findings obtained from our engagement with SME businesses on the proposed demand transition period and assignment triggers, Business SA makes the following recommendations:

- 1. Revise assignment equipment install >25amps. SAPN should consider revising the >25amp assignment trigger threshold for major alterations, in order to prevent dis-incentivising businesses from investing in business improvements and capital upgrades that lead to business growth. Ideally the removal of this trigger is the most preferable option, however if the trigger is retained then it is suggested to limit the assignment trigger to particular types of equipment that are major contributors of demand (e.g. air-conditioning equipment).
- 2. Revise assignment supply alteration trigger. SAPN should consider an option for businesses to undertake a non-mandatory reassignment of upgrading meters for a predetermined period of time (e.g. 1 year) to allow them to gain an understanding of their load profile and assess the potential cost impacts from the transition and fully cost-reflective tariffs.
- 3. Provide further explanation on the reasoning behind the consumption threshold. It is not clear from the TSS as to why the >40MWh threshold has been selected, particularly given that the tariff reforms are based around demand, not consumption. SAPN should provide adequate reasoning as to why this threshold was selected, and to what extent are small energy users (e.g. those between 40-60MWh) are significant contributors to peak demand, versus larger energy users in the 40-160MWh consumption range.
- 4. SAPN to provide a clear position on what would happen if a business decrease consumption below 40MWh after being placed on a demand-based tariff. SAPN's analysis states that over 45% of businesses within the 10-40MWh range are worse-off on a demand-based tariff; businesses are therefore at risk of being worse-off on a demand-based tariff is they were to remain on such a tariff whilst reducing their energy consumption to below 40MWh per annum (either through energy





efficiency improvements or a decline in business growth/activity). Accordingly, Business SA is seeking clarification from SAPN on what the process would be if a business decreased their consumption to below 40MWh after being assigned to a demand-based tariff. This issue could be overcome by including some form of 'opt out' clause if they reduce their consumption to less than 40MWh (and are worse-off under a demand-based tariff).

5. Extend the commencement or the duration of the transition period. In the absence of other recommendations listed above (and previous sections) being adopted, businesses need time to adequately understand their demand profile, identify potential opportunities to manage/minimise peak demand and action them. Evidence from the majority of businesses that participated in Business SA's stakeholder interviews, is that this level of preparation is not possible within the proposed transition timeframe, given the current lack of information in the market on these reforms and any kind of incentives or packages offered by retailers to install advanced interval meters. SAPN may wish to consider revising the commencement date or duration of the transition period; and coupled with the education/capacity-building program suggested in earlier recommendations, this may improve the ability of businesses to respond to the tariff reforms, and hence support SAPN's proposed adoption rates under the TSS.

2.4. Metering requirements

SAPN are proposing to reassign all small/medium businesses with an advanced interval meter (Type 1-5) onto the transition-demand tariff by 2023 or if businesses wish to continue using their existing accumulation meters (Type 6), they will be placed onto the transition usage tariff.

Findings

Overall 56% of participating businesses currently have a traditional accumulation meter (Type 6) installed. Table 5 below, highlights the breakdown of meter types installed between industry sectors. The majority of businesses with a Type 6 meter were typically at the lower-end of the consumption threshold.

Type 1 - 4 Type 5 Type 6 2 Retail & Wholesale trade 0 4 3 0 2 Admin & support services 2 Tourism & Hospitality 0 1 Medical 0 0 5 2 2 1 Wineries 2 0 1 Manufacturing & Agriculture 9 3 15 Total3 (56%) (33%) (11%)

Table 5: Breakdown of installed meter types

³ Some businesses interviewed have multiple meters for their premises





During the consultation process, businesses were asked if they knew what a "smart"/ advanced interval meter was. Over 50% of participating businesses were not aware of what a "smart' meter is and its capabilities. The businesses that have a Type 1-5 meter, most were unaware of the capability of their meter (e.g. were unaware that they could read their daily demand directly from their meter, or access half-hourly interval data).

All businesses interviewed indicated that they would be unwilling to pay for the installation of an advanced interval meter. Additionally, several businesses were of the opinion if an advanced interval meter is required under the new tariff structures then these should be provided free or at a subsidised cost. Businesses on a Type 6 meter, highlighted that for them to invest in purchasing an advanced interval meter there would need to be a clear businesses case with a reasonable payback, otherwise they couldn't justify the expense. Furthermore, businesses on a Type 6 meter felt that they would not risk triggering reassignment from installing an advanced interval meter without first understanding their demand profile.

For the participating businesses with a Type 6 meter, remaining on the transition usage tariff will potentially increase their annual electricity cost by between 3-7.5% (\$470-\$1,800 per annum).

Interpretations

Businesses with a Type 6 meter installed are at a disadvantage as there is limited information available for them to investigate the potential cost impacts (positive or negative) from the proposed tariffs. To have the required information to make informed decisions they require an advanced interval meter, however this would be an upfront investment for the businesses to install such a meter which is unlikely to occur if businesses cannot determine if they will be positively or negatively impacted. The likely outcome is that these businesses would remain on the transition usage tariff as it is the easier option.

Businesses that have a manually-read Type 5 meter are also at a disadvantage as these meters are capable of recording demand but the data is not remotely recorded; if these businesses wish to understand their demand profile they will need to manually record daily readings.

Business with a Type 1-4 meter are much better placed to evaluate the potential impacts from the proposed demand-based tariffs once they understand the capabilities of their meter and how to access their data.

Considering these findings and feedback from the SME businesses interviewed, Business SA has further addressed the following 'Questions to Stakeholders' posed by the AER in its Issues Paper (dated March 2016):

Will customers be able to understand the new tariffs to relate their use of electricity to these tariffs and decide how to respond?

For businesses to adequately understand their electricity use and therefore relate this to assessing the impacts, they require an advanced interval meter. A significant portion of SME businesses (56% of the businesses that participated in this study) do not have an advanced interval meter installed. SAPN outlined in the TSS that less than 1% of customers have an advanced interval meter and highlighted that unlike Victoria there will be not be a compulsory roll-out of advanced interval meters for South Australian customers. Their views are that the new competitive framework for retailer-led roll-out of advanced interval meter will be sufficient to increase uptake in SA, which will come into effect in December 2017 i.e. six months into the transition period, which further delays and hinders the ability for SME businesses to evaluate and respond to the proposed demand-based tariffs.

Recommendations

Based on the findings obtained from our engagement with SME businesses on metering requirements, Business SA makes the following recommendations:





- 1. Reschedule transition period to align with retailer timeframes. The TSS states that a retailer-led roll-out of advanced interval meter installations will be sufficient to increase uptake in South Australia, however this roll-out may not come into effect until December 2017 i.e. six months into the transition period, which further delays and hinders the ability for SME businesses to evaluate and respond to the proposed demand-based tariffs. SAPN should consider postponing the commencement date of the transition period (e.g. to December 2017 or July 2018) to align with the meter roll-out timeframes proposed for retailers.
- 2. Run program trialing advanced interval metering with SME businesses. SAPN should consider supporting a broad-scale trial of advanced interval meter installations with SME businesses to provide evidence-based examples to the business community of the impacts and implications of the tariff reforms across key industry sectors and business types/sizes between 40-160MWh. This trial may be conducted in partnership with retailers and Business SA together with key industry associations including the South Australian Wine Industry Association.





2.5. Provision of information and assistance to SME business

Findings

As discussed in the earlier sections of this report, the clear majority of SME businesses interviewed identified themselves as being underprepared to deal with the potential impacts that the tariff reforms may present to the cost of operating their business, for a number of reasons including:

- The public information provided to date by SAPN on the likely impacts of the proposed tariff reforms to SME businesses is overly complex, and hence difficult to understand by the layperson
- The concept of demand is a relatively new and an unfamiliar concept for most SME businesses
- They are unable to provide an indication of what their maximum demand and load profile looks like (due to limitations in their metering), and hence find it difficult to determine the potential impact of demand-based tariffs to their overall electricity costs (and therefore assess the business case for investing in an advanced interval meter, and/or demand-management improvements in their business)
- They are lacking in the technical knowledge on what is possible within their business to reduce peak demand or load-shift to off-peak periods
- They have typically treated their electricity bills with a 'pay and forget' mentality; placing tighter controls on their daily energy consumption will require a shift in business management thinking and practice
- SME businesses are typically time- and resource-poor and find it difficult to spend the time understanding the full extent of these reforms to their business, or implementing improvements to mitigate the impacts, without adequate lead-time to prepare (i.e. 12-18 months).

All businesses interviewed strongly supported the notion of being able to access some form of assistance to improve their understanding of both the potential impacts (both positive and negative) that the tariff reforms may have to their electricity costs, and opportunities to improve their management of electricity demand to improve their overall cost position in the coming years.

Businesses were also asked who they typically turn to for these types of assistance; the graph below outlines the distribution of responses, with the results illustrated below in Figure 3.

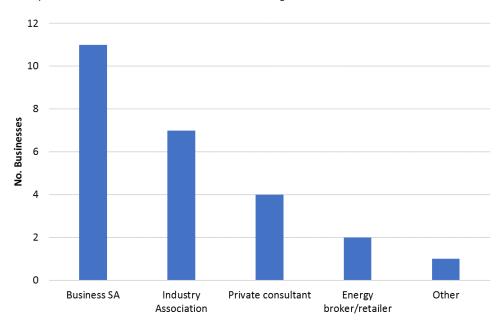


Figure 3: Business preferred assistance providers





Interpretations

Based on the feedback from those interviewed, and coupled with our knowledge and experience of what works with SME businesses, the following types assistance may prove useful in building the capacity and capabilities for businesses to both understand and adapt to the proposed tariff reforms:

- Information: Feedback from businesses suggests that clearer information (using visuals and simple layperson language) should be provided about the proposed tariff reforms including:
 - Understanding demand
 - Tariff structures, and
 - Understand the cost impact of the proposed tariffs on their business

Businesses also requested information on what might be possible, for businesses of their respective industry sector and size, with respect to implementing technologies (e.g. battery storage) and process improvements to reduce demand and load-shift to off-peak times.

The preferred methods of information dissemination could include:

- o Information brochures, factsheets and case studies
- Short workshops/seminar or interactive Q&A sessions.
- One-on-one assistance: Asides from the provision of information, most businesses prefer to have access to some form of one-on-one assistance from a suitably qualified expert (such as an industry association or government advisor, external consultant etc.) to assess the impact of the tariff reforms and identify/implement demand improvements tailored to their business operations and priorities. This one-on-one assistance could be delivered via:
 - o Consultation directly to the business, either in-person or over phone/online
 - o Consultation as part of a broader group of businesses (e.g. an industry cluster)
 - Development and dissemination of tools that they can use e.g. a 'tariff calculator' to provide businesses with the means of assessing the impact of the tariff reforms on their business (and what type of impact, either positive or negative, might upgrades or demand-improvements have on their overall cost position); such tools could be publically accessible by all businesses (and potentially hosted by organisations such as Business SA).

Recommendations

- Based on the findings obtained from our engagement with SME businesses on the provision of information and assistance to businesses, Business SA makes the following recommendations:
 - 1. Develop Tariffs Information Pack targeted to SMEs. SME businesses would benefit from key industry bodies such as Business SA, ideally with the support of SAPN, putting together an information pack with coverage of the proposed tariff reforms, their implications (both positive and negative) to SME businesses, steps businesses can undertake to understand how this might impact them, and opportunities to improve the management of their demand. This information pack should be highly visual and use layperson language, and can be used for developing materials such as brochures, fact sheets and case studies, as well as for use in the delivery of workshops/seminars.
 - 2. Develop 'tariff calculator'. The AER should consider funding for a 'demand tariff calculator' for SME businesses developed through either SAPN or Business SA, to provide businesses with the means of assessing the impact of the tariff reforms on their business (and what type of impact, either positive or negative, might upgrades or demand-improvements have on their overall cost position); this tool could be publically accessible by all businesses (and potentially hosted by organisations such as Business SA).





3. Establish a one-on-one assistance program for SME businesses. The AER should consider funding for Business SA and key industry associations like the South Australia Wine Industry Association to establish one-on-one assistance programs for their membership, providing businesses with the means of accessing support from experts to both assess the impact of tariff reforms on their business, and identify/implement demand management improvements.

Appendix A: Summary of Industry Stakeholder Responses (by Industry Sector)

SME Business interview questions

Section 1: Understanding business' current electricity position

How does your business procure its electricity needs?

What percentage of input costs does electricity represent?

Does your business have a smart meter? If not, have you been approached to install a smart meter?

Over which months of the year is your energy consumption at its highest?

Over which time of the day do you think your energy consumption is at its highest? I.e. 12pm - 4pm 4pm - 9pm 9pm - 7am 7am - 12pm

Do you think your energy consumption will be increasing or decreasing over the next 3 years?

Section 2: Understanding the possible impact of tariff reforms on business

Where you aware of SA Power Networks proposed transition to cost-reflective tariffs prior to this program?

What do you think of SA Power Networks proposed cost-reflective tariffs?

What issues does your business face in moving to a cost-reflective tariff?

Do you think the proposed transition peak-demand period is appropriate for your industry sector?

What price would your business be willing to pay for the installation of a smart meter to better understand their electricity costs prior to transitioning to cost-reflective tariffs?

Would your business be prepared to opt-in to a cost-reflective tariff without first installing a smart meter to better understand your energy use?

By how much do you think these tariff reforms will either increase or decrease the cost of your electricity bills?

Do you have access to the appropriate amount of information to determine what kind of impact these reforms may have on your electricity bills?

Section 3: Understanding the ability for the business to adapt to tariff reforms

What options are there for your business to manage the move the move to cost-reflective tariffs in order to offset rising costs?

Does your business have solar PV installed? If solar is installed, does it have storage to offset consumption outside of daylight hours? if no storage is installed why not? If solar is not installed, would your business consider solar (with or without storage) to offset grid electricity consumption?

If the move to cost-reflective tariffs leaves you with a higher overall electricity cost are you able to pass this cost onto your customers?

How long do you think it would take the business to make the appropriate changes to its operations in order to manage the move to cost-reflective tariffs?

Section 4: What assistance might businesses require

What assistance would be of most help to businesses in each sector in transitioning to cost-reflective tariffs?(i.e. expert advice on improving load factors and shifting loads or installing peak shaving equipment.)

Who would the business prefer to go to for advice on managing move to cost-reflective tariffs? (i.e. private consultant, SA Power Networks, Business SA or industry association such as SA Wine Industry Association, State Government, Federal Government etc.)

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Section 1: Understanding business' current electricity	Admin & support services	Manufacturing & agriculture	Medical	Retail/Wholesale Trades	Tourism & Hospitality	Wane	Consolidated analysis
How does your business procure its electricity needs? What percentage of input	business uses an energy broker to negotiate contracts. business does in-house market research and signs with the retailer that provides the bast deal. Two of the three businesses were unsure,	Energy is procured mostly through retailers. One business do in-house research to find the best deal. Majority of businesses indicated that	All four of the businesses go through retailers. All businesses do their own contract management in-house. When the contract is up for renewal they do some investigating for a better price, however not much time is spent doing it. The main reason for this is that it is easier to stay with the same retailer. The percentage of imputs costs that electricity.	The businesses in the retail trade sector all procurs their electricity needs from energy retailers. 3 of the businesses do in house research into current marking prices, while the other 2 resign with their existing retailer at the end of contract as they find it too difficult to switch providers. The percentage input costs for all retail	One party procured its energy through an energy broker the other negotiated with the retailer. Businesses usually sign medium term contracts. Usually 12-24 months. Electricity contribution to operating expenses.	tor procuring electricity. Some businesses in addition to the energy broken undertake in- house reviews of costs to ensure they are getting the best price. Most businesses sign onto a 24mrsh contract. The average input percentage that electricity	Businesses produced their energy in the very. Effect from play a sealer or an energy broke. The most product from the service of the service of the service of the service of the service seal which service of the ser
costs does electricity represent?	with the third indicated 8% of total business expanses. Two of the businesses have an advanced.	electricity was a minimal operating cost. One business indicated that electricity was a significant portion of operating expense (this business is also classified as a large user >160MWh) Majority of businesses did not have a smart.	represent is very small. The brainesses with the highest inputs recorded it at 5% others had some as small as less than 0.5%, expenditure. None of the businesses have small meters.	businesses appears to be between 0.8%- 2% (where specific amounts were provided) Both the knowledge and use of smart	departing on the size of the business, for the hoe larger businesses electricity accounts on average 4.5% of total operating costs. The with businesses is significantly smaller in size with electricity accounting for less than 1%. Smart meters are installed at both large	courts for varies depending on what operations the meter covers (e.g., and winery or winery collar door, vineyand winery or winery collar door, vineyand winery or winery collar door, vineyand winer, 10% of input costs for the winery alone. One premises it is very low at 0.5%, us to solar and winery operations (only process red so only can turn refrigeration pair of outside of virtage).	For Manufacturing & Agriculture, Tourism of Hospitality and Medical and extract costs for electricity were about All sits of their approximation to the similar indicatory sense very allowed. One wherey save their impact ast about 0.71% date to their projections. All offers and connecticately higher one half of the offers and at 4.5% with the offer two at the projections. All offers and connecticately higher one half of the offers and at 4.5% with the offers the out to project. The recognition on proud majors are some interesting results, Lotts of businesses doth from and feelth heart The recognition on proud majors are some interesting results. Lotts of businesses doth from and feelth heart and the project of
Does your business have a smart moste? If not, have you been approached to install a smart moste?	interval mater, while the third has an older style accumulation mater.	meter as were also unware of the purpose of a smart meter. The only business which had a smart meter was the large user >160MM/h which is already on a demand- based tariff.	and none have been approached to install one.	metres varied to a great degree within the cratilitheliosale industry sector. Several businesses were unware that they had a smart meter installed and what it was capable of doing. Businesses had not been approached to install a smart meter.	basinesses. One of the basinesses actively accesses their demand profiles through their energy broker.	Some wineries had them installed at the same time as their solar PV system.	has regiones an owner makes give core interesting stable. Let of industriess did it has not that had it and mark industry they make procreting of those had saleady have then invalided lever the purpose of them. The process were still not assess for their fail appoint. The contract had not seen to the fail appoint of their book? Annual had not been invalided as part of their book? Annual had not been invalided as part of their book? Annual had not been invalided as part of their book? Annual had not been invalided as part of their book? Annual had not been invalided as part of their book? Annual had not been invalided as part of their book? Annual had not been invalided as part of their book?
Over-which months of the year your anangy consumption at a highest?	Most businesses indicated for summer (but - App pained set to high contribution of illustration) consumption coming from air conditioning	Concurption appears to be prefix provisional throughout the year. Businesses with child air conditioning indicated that which consumption would probably increase a title over summer.	Summer and Winder are the periods of the year when energing consumption is all the like fighted. It's due to H-MAC systems cooling or swaming the Localities. All businesses con- suming the Localities. All businesses of during treatment is also all the during treatment.	For businesses with large percentage of traditises being efficient or statistispace their energy consumption was usually constant and producible. A higher use in summer with higher than the state of the state of the state of the state of the state of the state of the state of the state of the the state of the state of the the the state of the the the the the the the the	Productivately the warmer surrors months, have high energy consumption from the bare high energy consumption from the of air-conditioning (which is on high demand).	For all the windrided the virtuacy was the first of greatest concumption. For most I be tagen in Deci-Ulan going until April at the latest. The mapper contributions to electricity of the mapper contributions to electricity of the second of	Access of inchance electricity communities and treative denoted are specified to be all in lighter during parameters at the region of inchanced solvation of control and NAPAC_systems of the region (the first of the energy test for a parameter of the solvation of the solvation of the solvation of the energy set for leading and cooling of offices, communities was solved for the solvation of the solvation of the selection of the solvation of the solvation of the solvation of the solvation of the solvation of the solvation of the solvation of the solvation of the solvation of the administration of the solvation of the solvation of the solvation of the administration of the solvation of the solvation of the solvation of the administration of the solvation of the solvation of the solvation of the administration of the solvation of the solvation of the solvation of the administration of the solvation of the solvation of the solvation of the administration of the solvation of the solvation of the administration of the solvation of the administration of the solvation of the administration of administration of the administration of administration of adminis
Over which time of the day do you think your energy consumption is at its highest? Le. 12pm – 4pm – 4pm – 3pm – 7am – 12pm	Diverse results. Typically the businesses started around 8tm and were staffed 88 5- figm. Peak demand would be fairly consistent throughout the day.	The time of day for the highest consumption average out to be normal business hours. However attencores uses still highlights as times when consumption might be higher	Businesses think that their demand is fairly consistent, but if they iniciated that it shall that it would be fright after funch 12 - 5-8pm (depending on closing time).	For the retail businesses with operations based around cool room use, peak demand was suggested to be failly consistent throughout the day (some increase in hatemoon in surmand call to artifact alternoon in surmand call to artifact for the retail businesses which had high air conditioning use, peak demand with indicated to be between 12mon and 5pm (depending on closing time).	The highest energy consumption summaries would be from 4-9. For the two larger businesses this is when there is the highest volume of customers and all equipment is operating.	The time of highest consumption was from early morning until about midday. This is predominately from refrigeration plants. Also in the vitrage period, winaties try and crush in the morning to avoid the high afternoon temperatures.	For each benefits a energy discharies in hydron tren of our day would be office hours. Usually from book besides 6 in the alternative register between 200 offices and opposition between 2009 becauses whose operations that be be at specific times works see charges from this. For discharies whose operations that be be at specific times works see charges from this. For discharies works yet and an extra from their foreign for foreign containing to the containing the containing the containing to the discharies with receiving with most that expenses and operating to the operating the containing to the discharies of the containing to the containing the containing to the containing to the containing the containing to the containing to the containing the con
Do you think your energy consumption will be increasing or decreasing over the next 3 years? Section 2: Understanding	Two businesses indicated that their concumption would be increasing over the next 3 years due to expanding business operations. The third business indicated that their concumption would remain fairly static, even though they are upgrading equipment it is not arricipated to impact significantly on consumption	Majoriny of businesses indicated that their observables of the production of the production of the the next flew years. Only one business indicated that if may increase due to increasing production.	Only one business saw a potential change in the faute through emperation. The other businesses can't see their consumption changing in the next few years.	Businesses within the retail/wholesale industry expect that their electricity consumption will remain fairly static in the coming years.	The two hospitality businesses indicate that concurrence sepected to remain relatively static. For the smaller business the intension is to try and decrease consumption.	Winaries who aren't changing production volumes are expected to remain fairly static. Winaries are increasing production volumes are expecting there electricity consumption to increase proportionately.	For the sust reposity of businesses they as their energy consumption over the run of these years staying very subsect. Only business the pullerings in facility produces or production in research inclinated that electricity consumption may increase. This was applicable across all hiddenly sectors.
the possible impact of tariff Where you aware of SA Power Naturn's proposed sansition to cost-reflective santiffs prior to this program?	No.	Only one business was aware that tariff were changing, but did not understand what it means.	Three of the four businesses have heard nothing about these changes. One remembers it being mentioned but d\(d\)rit investigate any further.	No businesses were aware of the changes prior to being contacted by Business SA to participate in the study.	All businesses were unware that changes to the tariff structures was occurring	Majority of windries were aware that something was changing in their electricity suff structure. I windry was unlawate as they are all-ready on a demand-based staffs, therefore those proposed tariffs won't affect them.	The majority of balanceses were not seem of the proposed changes. All the information they had at this point came from this said, Some businesses of some research prior to the intense. This was common proceedings of the proposed changes and the source brookings providing can tom their energy broken) of the proposed changed.
What do you think of SA Power Nationins proposed cost-reflective fariffs?	Businesses had mixed responses, one thought is might be a good change while the detection of the special change while the effect them greatly as that operations are pretty consistent throughout the day.	From what businesses understood about the proposal they did not respond well. The great did not respond well the great did not respond to the great did not not be seen another for SAPN to increase their revenue.	Majority of businesses did not support the charges as they believe they will leave the charges as they believe they will be supported by the charges of the charges and the charge of the charges and the charge of the charges of the charge of	Businesses were unsure about what the charges in the tariff structure would mean to transcribe in the tariff structure would mean to transcribe and the transcriberal. Majority of businesses set that charges meant a price invasion, and the structure of the struc	Businesses fear that it would increase costs and that it plus businesses that have a short common that the second second second for business was unusue if the proposed tariffs would in fact achieve what SAPN are warring to achieve.	Others through it was unfair and it was just another attempt to take more money, and the state of the state of the state of the state of the state of the state of A couple witness undestand SAPMs masoning behind the changes.	Bearlease a concell all relative pactors are not of proposed with the proposed changes, with the majority feeting the searchest proced process and the proposed changes. We the majority feeting the searchest pack possible process and the p
What issues does your business face in moving to a cost-reflective faril?? Do you think the proposed	Potential cost increase and inability to shift pask demand. Probably not as it descrit reflect their	The predicted issues moving forward cets the cost inflations that margins would be that cost with the distribution of the margins are the state out will increase making it hander to nan a business. Businesses though that part of the period is Businesses though that part of the period is	slagicity of husinesses feel that there is outsign they can be and that they expect their electricity costs to increase as a result. The issues moving forward are that not much can be changed for these businesses due to their soids and operating focus which they are considered to the contract of the model of provide an environment that is an conflorable temperature level. They are unable to just stop using HMCO systems. Businessees feel it is probably nor enfocutive of Businessees feel it is probably nor enfocutive of	The cost increases will get more presented with a small believed, times and shallows, times and shallows, times and shallows, or make a like of the property of these additional costs will add to hair, sake paging to be very hand to make a like of these changes such as load shifting, just due to the nature of there operations. Majority of businesses indicated that their	Businesses within this industry sector decident that there is very time they can do to manage peak demand, as it is it rised to eaginerin that can trally change the operations of. The similar business also indicated that they have limited knowledge of opportunities that they could implement as managing electricity has not really been a high priority in the part due to the bus contribution to operating costs.	source with the changes to a cost reflective sould now that may of the winness used the costs again up for them. This than puts additional strain on winnies. Need to have more visibility over their downand so that they can better manage thair equipment use.	The main issue that because saw moving forward on the cost influence with were the potential price movesses. Other incurs for most basinesses was related was the leading to produce capital gaid enough for changes. The incurs of the produce capital gaid enough for changes. Business all had set operating burns that leaf within the proposed peak demand period. The experty of
transition peak-demand period is appropriate for your industry sector?	operating hours.	reflective of their operations, but unsure as to why it aleasted to flym. Businesses were unable to see how they could change their operations to minimise demand during this time.	Continues their operating hours, and therefore peak demand.	peak demand would fall within this period, agencing that it would be reflective of their operations. However, were unsure as to why the period excellents to 9pm as they are no longer operating.	relicelyes of the high peak demand, the hospitality businesses did not like the proposed peak due to their invited ability to distribute their peak demand. The tourism businesses, thought it was cleay.	time of virtage coincides with the highest seasonal peak, recurd summer. However the daily consumption time works ok because most of the work is done from about 7-12.	homerous of circlated that up set if given would reflect their peak admined period. However were unsure as to the flamenous and their their period was set after a three is intendiately the rim to change their operation. Your and of this distraction details of the peak demand window. If the peak demand window, the peak demand window, the peak of their peak of thei
What price would your business be willing to pay for the installation of a smart meter to better understand their electricity costs prior to standaloning to cost-reflective territory.	Would not be willing to pay for an advanced malar uganda, especially as some entailers are offering them to residential customers free of charge.	The businesses would not be willing to pay for the incalitation of a smart meter. To consider the incalitation more research into the benefits and role of the smart meter would meet be done and some life that they should be provided as part of SAPris service.	The cost factor was seen as too high for not enough benefit.	The businesses that heiving a smart meter would be the best way to monitor electricity domand and use. However the incise who had them already got them as part of a bulk deal and aren't aware of the cost.	Businesses would not be willing to pay for the installation of an advanced interval meter. One suggestion is that they should be free of charge due to the higher metering charges.	The estimate would be about 400-700 dollars for a smart meter. However the usefulness and pointfail value would need to be assessed before any decisions were made to install expecially for the smaller businesses as this is a large upfrort invariance without understanding what the benefits might be.	First the Advances date have mean research rate of the time of the process of process and the process of the pr
Would your business be prepared to opt-in to a cost- reflective tastif without first installing a smart meter to better understand your energy use?	No.	All businesses response with no.	The businesses still don't fully understand the cost reflective tariff. They would need more information before any decision was made.	All businesses were unwilling to opt-in before they understood their demand and what the cost impacts would be.	No.	No was the common response	Every localisates responded against opting in at this moment. They either saw the ballf adjustment cooling them too much or needed to further research it to understand the affect it will have.
increase or decrease the cost BOPON MINE SECRETS the appropriate amount of information to determine what kind of impact these reforms may have on your electricity bills?	slaping was unsure on the cost impact, one indicated it might increase as much as 20%. Businesses feel by don't have the regard information to make assess the impacts and make informed decisions.	we that continuous peach in the trum in inform will increase that follow, on businesses estimated a possible 10-15%. The 'DESTROSSES stronglet they have close to enough information to determine the impact	All the businesses saw their electricity has going up if the staff reform comes. In: Again are not 100% sure due to lack of **Morte Office** Marinesses have the right information yet to know what the impact will be.	social bublishades feet than the information their absorbing to cooks. 3 businesses feet that the information provided to date was not enough for them to make informed decisions. 2 businesses feet since the tariffs were explained to them though this south, but they had a better understanding of what was happening.	sections and of the control of the c	As of the wiseness prodict the build reforms will call to price increase, especially during their virtage period. None of the wiseness believed they had compay information about the build'reform to access the impacts that they may have on their business.	The vast integriting of bisensees predict on increase in overall cases. Sone predictions were an increase of footbook. May a single bismess in any sector should have been decision or enough information about the failff is elsewhere to properly determine the impact it would have on their business.
the ability for the business to What opsions are there for your business to manage the move the move to cost reflective tailthe in order to offset fishing costs?	Businesses can't see much opportunity to manage their peak demand as it is linked to art conditioning that is required to maintain temperature to beau critical equipment taboratory equipment. One businesses indicated that as their air conditioner use is to maintain staff confront levels, they would look air replimenting staff engagement indicated that so their air conditioner use is to maintain staff confront levels, they would look air replimenting staff engagement indicative to change behaviour patterns.	The only options businesses saw to manage these changes was potential facility upgrader. One business said they'd consider solar native said they'd consider solar native said their only upgrades.	The options for businesses within this industry sector is very minimal due to demand being linked to martailing patient conflot. Some more improvements could be made in high more improvements could be made in high premises are leasted, therefore changes in equipment are difficult to implement.	All of the businesses had already made considered able changes to their operations level of energy efficiency with changing in lighting and invest outprease. The only lighting and invest outprease the only such as change all conditioner times and upgade some other lighting systems. Severa businesses were constrained in the upgrades that they could make as outprease formed part of their lease energy the conditions of an experience of their lease energy the conditions of the conditions of t	Due to the nature of hospitality nothing can- neally be adjusted. Service times cannot be adjusted and eapprener like overs, fridges and freascers cannot be sinds off. and freascers cannot be sinds off. still be considered to the conditional pro- ceedings of the control of the con- trol of the con- trol of the control of the con- trol of the con- t	Wineries have already made significant upgrades to manage their electricity contamption. For some businesses their is sits scope to manage demand though capital 4 out of the 5 wineries already have solar installed to reduce consumption.	For most hubiness the charges they can make are very fettled. The val requiry could not also the time of operations. One hashiness could make show very more charges used may be feel closures for machinery. One cleaning hubiness will be admitted and population of the could be contained to the country of the admitted may be contained to the country of
Does your business have sola PV installed? If solar is installed, does it have storage to offset consumption outside of daylight house? If no storage is installed usus? If no storage is offset consumption outside of daylight house? If no storage is distalled, which is a storage of the consumption outside of daylight house? If no storage is installed, would your business consider solar (with or wishout storage) to offset grid electricity.	Face of the basinesses do not have either restanted Both businesses of cases that it is would resold to have a good business case for the basin available for the business. On the basinesses case for the businesses of the basinesses of the basines	Ballinesses have looked at it in the goat but he believes case when or visible or three was playsicalizent commental constants with his family many constants which his his had the ball proceeding. Baltery storage was not investigated by any business.	have it the businesses have a TV system and the New York of the Section of the New York of the Section of the S	Zhadines have claim Fil intended. 2 humbers have been deal in the past had did not proceed six the buildings are leased. One builmess is conversity in the process of reviewing solar. Builmesses that have solar did not look into builmesses that have solar did not look into builmesses that have solar did not look into builmey storage as the cost was too high.	Inhabitises have bedded at solar PV in so goth, for one hose been side to proceed dae to a Valley of special-lawinement constairier. One forespitality indicated if they could proceed with colar then they could proceed with colar then they could crossider better sorage once the technology advances.	Acust of the 5 interface already have solar Policicalistic. All have looked at battery scorage in one way or acrother. Heaves roncy set think it appropriate, due to the lack of sort/viological development.	On about 25% of balanceses current, here solar residue. Other an elver delit have the folialises to freeded private or free cells residue to provide private or free cells and solar diverge and a local delit and solar diverge cells and the cells of the
If the move to cost-reflective tariffs leaves you with a higher overall electricity cost are you able to pass this cost onto How long do you think it would cost onto the pass this cost onto the long do you think it would the long the long	Not long for behavioural changes.	Businesses indicated they would not be able to pass on the costs to customers if their electricity prices increased. Businesses felt that there were only small charges which they could make, therefore	costs that businesses in this industry sector are able to change predominately regulated, therefore they are unable to pass on costs to patients. All the businesses said it would take about 3 morths for them to change operations to	Businesses were indicated they were unable to pass the costs to customers. If it was possible, businesses would be very hesitant to do so. Businesses estimated it would take anywhere between 3-12morths to make the	All businesses would absorb the costs as price increases would upset their customers. Businesses all felt that maintaining customer satisfaction is all businesses indicated that they would need to consider the cost of the cost of the all businesses indicated that they would need to consider the cost of the cost of the cost of the cost of the cost of the cost of the cost of the price of the cost of the cost of the cost of the desired of the cost of the cost of the cost of the desired of the cost of the desired of the cost of the cost of the desired of the cost of the cost of the desired of the desired of the cost of the desired of the cost of the desired of the desired of the cost of the desired of desired of desired desired of desired of desired desired of desired of desired of desired desi	The ability for wineries to pass on these increased costs is either impossible or very close to it. The market has an over supply which makes it heard to increase price sand Ear the majodity of wineries implementing change. Would take at least 2 years for	Only about 20-20% of businesses would be able to past these costs onto customers. After would potentially book into 16 as an policy to the threat was importly would be brond to want these costs to keep their productibilisherious competitive. Businesses had mixed views on how long it would take to adjust to the lattiff changes. If only small changes were possible than they typically don't negate much time.
Set in the set of the	Capital upgrades would take awhile between 6. 5 years (depending on the available capital of the business).	changes which they could make, therefore wouldn't take them long to adjust.	months for them to change operations to assist in managing the move to costs- reflective tariffs as improvement opportunities are not linked to costly capital upgrades.	anywhere between 3-12morths to make the changes. To make capital opposites it would take them longer as they need to save for largest upgrades.	18 19318 17.2-difficients to the Jabuquitally prepared to manage the move to cost- reflective tariffs.	d'Bhighis' Wolfdi Bike at lesst 2 years for them to save-up the capital and then implement the upgrades. Cuick win opportunities could be implemented qui cidy, however larger capital upgrades take time. Two of the smaller winenies inclused that it wouldn't take them long to adjust provided they had the information they required.	were goossile than they typically don't require much three. Section of the secti
What assistance would be of most help to businesses in each sector in ansistoring to cost-reflective striffs?(i.e. superil advice or improving load factors and shifting loads or installing advantage of installing peaks shaving equipment)	More information around understanding your damand profile, along with general aducation profile and profile and profile and profile structure changes. Would like additional information on load- shifting opportunities and statchnors with provision for face-to-face or phone facilities to ask questions.	what it means for their business would to the genealess their, loadly outling the purposed changes and how businesses can manage these changes with they come in. Provisio a way to ask questions and get proper responses in an appropriate time frame.	All businesses agreed on needing a lot more information to undestand what is happening method and the second second to the second method of information delivery would be a hort workshops or printable material such as factorheets.	Businesses said the bast information for tham would be to first receive the facts and the facts and the fact that have the going to a fact than. Other height took would be getting advice from experts about load management, load shifting and peak sharing.	More information is required. A way to provide business with an easy business with an easy control of the provided position of an a preferred deliver method of information discernination. Assistance on hor to manage these checking are not provided to a checking as an area of the control of t	The general consensus was for a better understanding of what's going to happen and understanding of what's going to happen and preferred development of the preferred development developm	All the bearinesses said they'd head a lit more information about the changes, how they are going to effect its local ofference of the changes. They depend the solution about their least bett infliger pass abouting salprane. The changes are all the changes are also all the ch
Who would the business prafe to go to for advice on managin move to cost-reflective safety for enforce to cost-reflective safety (i.e. private consultant, SA Power Networks, Business SA Aor industry association such as SA Wine Industry Association, State Government, Faderal Government etc.)	Prodominately use private consultants of Bosinsos SA.	Business SA would usually be the go to for responses of this nature.	Business SA would be the go to for all the businesses to acquire any additional information.	Business SA was the preferred point of additions for the majority of businesses in the retail inholds safe indusery acctor.	The hospitally businesses would prefer to use either an energy trother or private contains the second of the secon	SAWIA is the preferred point of contact	On a white homitoness would go to filteress SAH or information. One of the modern section of the section of th