

## OPEN MEETING MEMORANDUM



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AZ CORP COMMISSION

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# Arizona Corporation Commission

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TO: THE COMMISSION

FROM: Utilities Division

DATE: October 25, 2011

DOCKETED BY

RE: ARIZONA PUBLIC SERVICE COMPANY – APPROVAL OF ITS 2012 RENEWABLE ENERGY STANDARD IMPLEMENTATION PLAN AND REQUEST FOR RESET OF RENEWABLE ENERGY ADJUSTOR (DOCKET NO. E-01345A-11-0264)

On July 1, 2011, Arizona Public Service Company ("APS") filed its application for approval of its 2012 Implementation Plan ("2012 Plan") pursuant to the Renewable Energy Standard and Tariff ("REST") Rules. On September 21, 2011, APS filed its Supplementary Filing and Notice of Errata. The supplementary filing included corrections and clarifications of the July 1 application.

#### The APS REST Implementation Plan 2012 to 2016

The APS application includes the 2012 Implementation Plan, Renewable Energy Standard Adjustment Schedules, a Renewable Energy Standard Plan of Administration, a Schools and Government Solar Program Rate Rider Schedule, and an updated Service Schedule 6. In the 2012 Plan, APS offers three different options for Arizona Corporation Commission ("Commission") consideration. The three options include budgets of \$129.2 million, \$141.2 million, and \$151.5 million. The residential RES Surcharge cap would increase by \$1.38 in Option 1, by \$1.91 in Option 2, and by \$2.36 in Option 3.

	Option 1	Option 2	Option 3
2012 Budget	\$129.2 M	\$141.2 M	\$151.5 M
2012-2016 Budget	\$783.1 M	\$810.2 M	\$873.8 M
2012 RES Adjustor per kWh	\$0.013586	\$0.014907	\$0.016037
2012 Residential Cap	\$5.43	\$5.96	\$6.41
2012 Non-Res. (under 3 MW) Cap	\$201.84	\$221.47	\$238.27
2012 Non-Res. (3 MW and over) Cap	\$605.53	\$664.40	\$714.81

Table :	1:	<u>APS'</u>	Proposed	20	12-2016 Budget Options	

The 2012 Plan design is to achieve and exceed compliance with the 2012 REST Rules requirements. In 2012, APS must obtain 3.5 percent of its total retail energy sales from renewable energy resources, and 30 percent of that renewable requirement must come from distributed energy ("DE") systems. APS expects to exceed the 2012 RES compliance in all categories.

In addition to the requirements of the REST Rules, APS must also obtain renewable resources to meet the 2009 Settlement Agreement, as required by Commission Decision No. 71448, issued December 30, 2009, in Docket No. E-01345A-08-0172. Per this Decision, APS must obtain new renewable energy resources with annual generation or savings of 1,700,000 megawatt hours by December 31, 2015. This requirement, in effect, doubles the renewable requirements in the REST Rules. These extra requirements will cause significant budget impacts on the 2012 REST budget.

APS contends that once the 2012 REST budget is approved, it must immediately commence procurement activity in order to meet the 2015 Settlement requirements in a cost-effective manner.

APS claims that it will need to procure an additional 300 MW or 502,500 megawatthours by December 31, 2015, in order to meet the 2009 Settlement requirements.

The APS plan includes two approaches to meet its 2009 Settlement requirements. First, APS will need additional customer or third-party owned systems. Second, APS will need more utility-owned systems. These utility-owned systems will include new additions to the AZ Sun Program. APS would like to procure 150 MW through each of the two procurement methods in order to meet the 2009 Settlement Agreement requirements.

#### The 2012-2016 REST Program Options

APS believes that Option 1 is the minimal budget needed to meet the 2012 REST requirements and the 2009 Settlement Agreement obligations. Option 3 reflects the Commission order in the APS 2011 REST Plan docket to have a 2012 residential DE budget of \$40 million. Option 2 falls in between the two other options, offering the Commission another choice in lieu of Option 1 or 3.

#### **Option** 1:

This option includes 150 MW to be procured via Purchased Power Agreements ("PPAs") in 2012 through 2015.

Option 1 does not include a budget item for additional non-residential DE projects, since APS expects to be in compliance with the 2012 REST requirements without any additional non-residential projects. This option includes only enough funding needed to meet the 2012 residential DE requirement. The residential DE budget portion of Option 1 is \$20 million. This would add about 17 MW of new residential capacity in 2012. The total Option 1 budget would be \$129.2 million.

#### <u>Option 2</u>:

Option 2 would include procurement of 125 MW through PPAs in the period of 2012 through 2015. It would continue the non-residential DE Program with a 25 MW expansion

between 2012 and 2014. APS would not fund any large scale projects (greater than 200 kW) in this option. APS would allocate \$2 million for small, non-residential projects (less than 30 kW) using Up-Front Incentives ("UFI"). A total of \$100,000 in 2012 would be reserved for medium-sized (30-200 kW) projects. This would represent a \$10 million increase in total lifetime commitment for each year between 2012 and 2014. Option 2 would allocate \$30 million to the residential DE program, which would add about 26 MW of new residential capacity in 2012. The total REST budget under Option 2 is \$141.2 million.

#### Option 3:

In Option 3, APS would solicit 100 MW through PPAs in the period 2012 through 2015. This option would expand the non-residential DE program by 50 MW during the period from 2012 to 2014. A budget of \$2 million would be budgeted for Up-Front Incentives for small non-residential projects. A budget of \$300,000 in 2012 would be used for large and medium-sized projects. This would represent a lifetime commitment of \$20 million each year between 2012 and 2014. This would result in 50 MW from medium and large projects. As ordered in Decision No. 72022, Option 3 would include \$40 million for residential DE incentives which would procure about 34 MW of capacity. The Option 3 budget would be \$151.5 million.

#### **Residential Incentive Funding**

APS is proposing residential incentives of 1.30/Watt, which would continue to decrease with market-driven triggers. APS proposes to decrease the incentive for residential geothermal systems from 0.90/kilowatt hour of first-year savings to 0.80/kilowatt hour.

APS proposes to allocate \$3 million of the residential incentive funds to the Rapid Reservation Program. APS also proposes to set-aside 15 percent of the residential budget for non-photovoltaic ("PV") technologies. Finally, APS proposes \$2.6 million for the Energy Star® Plus Solar Homes Program.

A number of favorable comments were provided on the APS proposal to fund the Energy Star® Plus Solar Homes Program at \$2.6 million. They included Shea Homes and Keystone Homes. American Solar recommended that the Solar Homes Program funding be increased to \$4 million in 2012 and that the homebuilder incentive be reduced to \$1.25 per watt.

On September 15, 2011, in Decision No. 72592, the Commission approved an application by APS to offer 1/4 as the residential UFI incentive. At 1 per watt, APS has been receiving an average of 50 applications per week. At that rate, the residential market in the APS service area appears to be around 2,600 systems per year. APS has indicated that its average system size is 7 kW. If the 50 applications per week holds, the average size system remains 7 kW, and the incentive were to remain at 1 per watt, the total incentive budget for 2,600 systems would be 18,200,000. Under APS Option #1, the 20 million residential budget allocates 2.6 million for the Solar Home Program, 3 million for non-PV incentives, and only 14.4 million for PV incentives. So, the 1/4 million for 2,600.

Staff believes that the \$1/watt incentive for residential UFI incentives has shown that there is a strong market for residential PV systems. In order for APS to maximize the use of its incentive funds and install the optimum amount of solar per budget dollar in 2012, Staff recommends that rather than the \$1.30 per watt incentive proposed by APS on July 1, 2011, the incentive should be set at \$0.85 per watt on January 1, 2012. Therefore, Staff also recommends against any further funding of the Rapid Reservation Program.

Staff recommends an automatic trigger mechanism to lower PV incentives in order to avoid severe disruptions in the residential marketplace in 2012. Under Staff's proposal for residential DE, the PV UFI would be reduced to \$0.70 per watt if 45 percent of incentive funds are reserved on or before June 30, 2012. The second trigger would, if the June 30, 2012 trigger had been reached, reduce the incentive to \$0.50 per watt if 70 percent or more of the incentive funding is reserved prior to September 30, 2012. If the June 30, 2012 trigger has not been reached, then the second trigger would reduce the incentive to \$0.70 per watt. The third trigger would involve a step-down in the incentive level if 90 percent of incentive funding is reserved on or before November 30, 2011. The incentive would then be reduced to \$0.50 per watt if both previous triggers were reached, \$0.50 per watt if one previous trigger was reached, and \$0.70 per watt if no previous triggers were reached in 2012. The chart below lays out how the overall trigger mechanism would work.

Date of Trigger On or before June 30, 2011	Compliance Level to Activate Trigger 45%	Incentive Level if Trigger Activated \$0.70 per watt
On or before September 30, 2011	70%	<ul><li>\$0.70 per watt</li><li>\$0.70 per watt if June 30 trigger is not activated.</li><li>\$0.50 per watt if June 30 trigger is activated.</li></ul>
On or before November 30, 2011	90%	\$0.70 per watt if no previous 2012 triggers activated. \$0.50 per watt if one or both previous 2012 triggers activated

Table 2:	Staff's	Proposed	Incentive Triggers	and Levels

On the day that any trigger is activated, APS will notify the solar industry by e-mail and APS will provide a similar notice on its website. The mechanics of the residential triggers would include timely notification to the Commission and installers if the trigger is reached. As well, Staff recommends that APS post information on its own website, and on the ArizonaGoesSolar.org website at least every two weeks, regarding its progress toward reaching the triggers.

Any cancelled project funds added back to the budget would be funded last and allocated at the \$0.70 per watt incentive level if the first trigger is reached, or at \$0.50 per watt if the second or third trigger is reached. The residential customer will only be able to collect an incentive up to 40 percent of the total system installed cost.

Staff proposes an alternative way to fund and encourage more residential solar demand. First, Staff believes that APS should reduce the new home builder incentive from the current \$1.75 per watt to \$0.85 per watt. Next, APS should increase the proposed funding of the Energy Star® Plus Solar Home Program from \$2.6 million to \$3 million.

#### **Non-Residential Incentives**

Staff proposes to reduce the non-residential Up-Front Incentive from \$1.75/watt to \$0.85/watt. Project owners would be able to collect up to 40 percent of the system cost in incentives. This reduction is consistent with other PV incentive reductions that have occurred over the past few years in residential UFI and non-residential production-based incentives ("PBIs"). It is also consistent with Staff's recommendations for other incentive reductions in the APS 2012 REST Plan.

#### APS' Proposed Elimination/Reduction of Non-Residential PBI and UFI Funds

Several commenters decried APS' proposal to reduce or eliminate non-residential PBI funds over the next five years. They included Vestar, Green Choice Solar, AriSEIA, WalMart, and the Biltmore Bank of Arizona. They argue that to eliminate or reduce the non-residential PBI incentives would restrict non-residential customers from REST funding, while APS would continue to collect monthly REST surcharges in funding the program. Staff agrees with the intervenors that the APS approach would be unfair to all the non-residential customers wanting to install renewables under the REST Program. Staff, in its proposed Options A and B has recommended funding levels that will continue a limited non-residential program in 2012 and beyond. However, Staff's recommendations will significantly reduce the cents per kWh PBI incentive and the cap on the allowable total incentives per project.

Staff believes that APS needs to continue a reasonable level of support for non-residential projects over the next five years. In addition, Staff believes that the PBI incentive levels and the cap on total incentives collected must decrease significantly in 2012. In the residential program, incentives have fallen in the last two years from \$3 to \$1/watt. Two years ago, residential customers could collect \$3 per watt up to half of the system cost. Today at \$1 per watt and an average installed system cost of \$5 per watt, the residential incentive only provides about 20 percent of the installed system cost. Staff believes that a similar reduction in non-residential incentives is due and that without such a reduction, the cost of non-residential PBIs will, over time, drive up ratepayer REST monthly charges to unacceptable levels.

Staff notes that public comments on the APS Plan said it would "eliminate free market competition" and "cripple" the PBI program. Staff believes that the REST Program needs more robust free market competition. Staff believes that its non-residential PBI incentive proposal will signal a new wave of encouragement for lower-cost non-residential installations.

In the current APS Distributed Energy Administration Plan ("DEAP"), the PBI incentive caps for 10, 15, and 20-year plans are 15.4, 14.3, and 13.8 cents per kWh, respectively, and the customer may collect up to 50 percent of the installed system cost in incentives. To be consistent

with incentive cap reductions in the residential program, Staff recommends that the nonresidential PBI incentive level limits be reduced to \$0.084 per kWh for 10-year contracts, \$0.082 per kWh for 15-year contracts, \$0.08 per kWh for 20-year contracts and that customers shall only be allowed to collect up to 40 percent of the total system installed cost of projects approved in 2012.

Staff notes that merely dropping the incentive level from \$0.138 per kWh to \$0.08 per kWh is insufficient for the utility to reduce the total lifetime incentive for a given project. Having a lower incentive of 8 cents will only mean that it will take the customer a few more years to collect the remainder of its allowable 40 percent of installed costs. In order to truly reduce the incentive costs to APS, the cap on lifetime incentives for non-residential projects must be reduced to 40 percent of the total system installed cost.

#### **DE Program Enhancements**

APS is proposing changes to its incentive program administration processes to handle the issuance of Internal Revenue Service Form 1099 to residential incentive recipients. APS proposes a new monitoring program to install production meters for small residential and non-residential PV systems that receive Up-Front Incentives. The production meters would be in addition to the bi-directional meter used for billing the customer. The meter will validate the PV production at the customer level. APS hopes to install 7,200 meters in 2012 at a budget cost of \$600,000.

Two comments were received on the metering proposal. First, the Solar Alliance asked APS to justify the meter installation proposal and asked who would fund the installation of the meters. Solar City expressed concern about APS installing meters retroactively on existing systems. Staff has reviewed the APS proposal and recommends that it be deleted from the APS 2012 plan. In a year when APS is asking for increases from \$30 million to over \$50 million, Staff believes every dollar in the budget must be justified. Staff believes that the \$600,000 in meter installation cost would be better spent on non-residential system incentives. However, if APS truly believes that this metering is essential, Staff recommends two possible options. First APS could fund the meters out of non-RES funding sources. Second, APS could develop a program for 2013 using a small random sampling of new residential PV systems with new meters. If, by the end of 2013, APS finds that the random sample shows a significant number of new systems are under-performing, APS could ask the Commission to expand the metering program in 2014.

As suggested by solar industry representatives, and required by Decision No. 72022, the APS 2012 REST Plan includes a required security deposit for all non-residential PBI program applicants. The Applicant will be required to submit a reservation deposit to APS equal to five percent of the total lifetime PBI commitment request for the reserved project. If the full reservation deposit is not received by APS within seven business days, the conditional reservation will be cancelled and the reservation funds will be awarded to the next ranked project. Once a project is successfully interconnected, with all required paperwork submitted to APS, and has passed inspection, the reservation deposit will be refunded to the applicant.

Several parties commented about the APS-proposed security deposit. Green Choice Solar supports the APS proposal "without any changes." Solar City complained that the requirements "are too stringent and that the proposal ties up capital." The Arizona Solar Energy Industries Association ("AriSEIA") objected to the APS Security Deposit proposal, but provided an alternative proposal:

- An initial deposit is required for performance based incentive projects in the amount of \$3,000 for systems 200 kW AC and under, \$6,000 for systems greater than 200 kW AC and less than 500 kW AC, and \$10,000 for systems over 500 kW AC to the 2 MW limit. This deposit is due 30 days after APS notifies the customer of the incentive award. APS will continue to make new awards to replace forfeited awards until the category's next respective auction, and then roll unused funding into the next period.
- 2. A second deposit of 2 percent of the lifetime incentive funding requested shall be required. This deposit is due 120 days after notification of award. In lieu of a cash payment, customers may submit bonds or letters of credit for the corresponding amounts. APS will continue to make new awards from the most recent auction within funding category to replace forfeited awards until two weeks before the category's next respective auction, and then roll unused funding into the next period.
- 3. Deposits may be submitted on behalf of APS customers by installers, dealers or other parties.
- 4. The current progress milestone requirement at 90 days shall be extended to 120 days, coinciding with the second deposit due date and 120 day milestone.

Staff has reviewed the AriSEIA proposal and recommends that it replace the APS security deposit proposal. Staff is aware that this approach may not fully solve the "phantom project" problem, so Staff recommends that the Commission order APS to evaluate the AriSEIA security deposit approach during 2012 and be prepared to make adjustments in the 2013 REST Plan, if it fails to solve the phantom project problem.

APS has, at the suggestion of the solar industry, added a requirement that all applications for the residential UFI program must include submission of a complete, executed contract between the customer and solar installer/developer, including the technical specifications for the project.

APS proposed to update its Distributed Energy Administration Plan ("DEAP"). Included will be additional requirements for leased systems to provide documentation naming the actual owner of the residential DE system. APS also proposes to prorate incentives for solar water heaters that are installed at less than optimal tilt and orientation, due to reduced energy savings for those sub-optimal installations. Staff agrees with all of the proposed changes to the DEAP and recommends Commission approval.

#### Schools and Government Program

APS is proposing to narrow the criteria ranges on the Project Ranking Matrix in order to better evaluate the economic status of schools. All other requirements remain unchanged.

APS claims that the strong market response for third-party incentives in the 2011 Schools and Government Program shows that a high incentive level is no longer needed for economically challenged districts. APS wants to lower the current approved PBI rate for 2012 of \$0.145 per kilowatt-hour ("kWh") for 15-year contracts to \$0.123/kWh and the current approved PBI rate of \$0.132/kWh for 20-year contracts to \$0.112/kWh. APS claims that reduction of the incentive will allow it to fund more projects during a nomination program.

The APS Plan allocates \$65.8 million of the lifetime commitments to the third-party PBI projects and expands the Up-Front Incentives budget for solar daylighting installations by \$562,500. APS would update the School and Government Solar Program Rider Rate Schedule to reflect the changes.

APS has seen increased customer interest in the Schools and Government Program, particularly from economically-challenged school districts. In the 2012 APS Plan, APS is asking for authorization to expand its deployment of utility-owned systems by 25 MW for economically challenged schools as well as government facilities in 2012 and 2013. This would be in addition to the 2011 Schools and Government projects approved by the Commission in Decision No. 72022 and amended by Decision No. 71274.

The only change would be the elimination of the restriction that limits the APS-owned option to only rural schools. APS states that this change will offer all economically-challenged schools another option to deploy solar resources. The installation, operation, and maintenance of the systems would be managed by third-party installers/developers. The renewable energy from the utility-owned systems would not be counted toward meeting the RES distributed energy requirements. The renewable energy would be credited toward the overall RES requirement of APS. This expansion of utility-owned solar systems would increase the budget by \$2.9 million.

Numerous parties submitted comments on the APS Schools and Government Program. Green Choice Solar claims that the expansion of the Schools and Government Program comes at the expense of the non-residential PBI program. The Arizona Solar Energy Industries Association insists that the third-party ownership approach is the best method and that the percentage of utility ownership in the Schools and Government Program should be reduced to 0 percent. Solar City says that any expansion in the program should be equally divided between third-party owned systems and utility-owned systems. Solar City also expressed concern about APS' proposed reductions of the incentives in the Schools and Government Program. The Solar Alliance developed a new proposal for the REST Plan including recommended changes to the Schools and Government Program. The Solar Alliance opposes the APS-proposed reduction in third-party incentives for schools.

Staff agrees with some of the stakeholders that APS' proposed reduction of PBI funding for the 2012 REST Plan could reduce competition in the renewable marketplace. Staff believes that increased competition in the Schools and Government Program can help to encourage a more competitive non-residential marketplace in Arizona. However, offering fixed third-party incentives does not allow for robust price competition.

In response to a data request from Staff, APS provided data to Staff about the demand for Schools and Government Program project funding. During the first three funding cycles of 2011, APS received 44 applications requesting funding for 11.7 MW of PV installations. Of the 44 applications received, APS was able to fund 16 projects by reserving \$10.89 million in incentives. There were 28 school projects, totaling 8.3 MW of capacity that APS was unable to fund. The government part of the Schools and Government Program received 27 applications, but APS only had funding for 6 projects. These six projects will provide 1.22 MW of capacity. The other 21 applications which were not funded totaled 5.01 MW of capacity.

These recent numbers convince Staff that setting a fixed PBI incentive number for the Schools and Government Program is a mistake. The 28 unfunded schools projects and the 21 unfunded government projects are proof that there is a significant demand for Schools and Government funding and that schools and government projects should compete on a least-cost basis, similar to the very successful competition in the APS third-party non-residential PBI program. The competition in the regular PBI program has been so successful that APS has reserved enough capacity to meet its non-residential REST requirements for the next five years. Staff believes that similar project competition in the Schools and Government program can significantly reduce the delivered cost per kWh, fund more projects and install more MW of capacity per dollar of budget allocation.

Staff, therefore, recommends that third-party incentives for the Schools and Government Program be capped at \$0.12 per kilowatt hour for 15-year contracts and \$0.10 per kilowatt hour for 20-year contracts. Total incentives per project would be capped at 40 percent of total system installed cost. APS should change its project selection criteria to select the lowest-cost incentive projects, similar to the existing non-residential PBI program that has worked so well over the last few years.

In regard to the APS proposal to allow expansion of utility-owned Schools and Government projects by 25 MW, Staff recommends that APS be allowed to expand utility-owned projects by an additional 15 MW that would focus on economically challenged schools in all areas of APS' service territory. Further, Staff recommends approval of an additional 10 MW of third-party projects, but only if they are allocated by a least-cost method and subject to Staff's proposed incentive caps. Total incentives per third party project would be capped at 40 percent of the total system installed cost.

In the Schools and Government Program, APS has proposed reductions for most of the solar charges and increases for a few solar charges in the APS Rate Rider Schedule SGSP. This revised Rate Rider Schedule would fund projects at the most economically challenged schools in all areas of the APS service territory. Staff recommends approval of these changes.

#### **Marketing and Advertising Costs**

APS has typically included a marketing budget in its annual REST plan filings. For the proposed 2012 REST plan budget, APS has proposed \$3 million in funding for customer programs, including marketing and advertising. This funding is included on Lines 34 and 35 of REVISED Exhibit 2A of the APS 2012 REST Plan. These are the line items entitled "Renewable Energy Incentive Program Non-Incentive Costs" on Line 34 and "Advertising" on Line 35. In the "non-incentive costs" line, a number of the programs are continuations of programs approved by the Commission in 2008, 2009, and 2010. A few programs have three year contracts with third-party vendors. For this reason, Staff only recommends a reduction of \$300,000 in the "non-incentive cost" budget line. Staff recommends a \$500,000 reduction in advertising costs in the budget.

Staff believes that with the significant growth in the renewable energy industry in Arizona in recent years, there are now many venues for publicizing renewable energy technologies and programs, and the renewable energy industry should bear the primary responsibility for marketing renewable energy in Arizona. Therefore, the need for continued funding of marketing and advertising by APS' ratepayers has declined significantly. Thus, Staff is recommending approval of a \$800,000 reduction in marketing and advertising costs as described herein. Staff further recommends that in future REST plans, the burden of proof will be borne by APS to justify the use of ratepayer funds to pay for marketing and advertising if APS proposes to use of ratepayer funds for marketing and advertising in future REST plans.

#### **Integrated Pilot Program**

As ordered by the Commission in Decision No. 72060, APS has developed a Pilot Program that coordinates the integration of Smart Grid technology with DE, energy efficiency ("EE"), and demand response ("DR") technologies. The Pilot would involve customers served by the APS Pioneer Substation located near I-17 and Carefree Highway in North Phoenix. Up to 100 Pilot customers would be offered incentives for installing grid-tied PV systems with an APS-owned Smart inverter and a suite of "Smart Home" technologies. APS would like to collect \$1.5 million associated with the DE component of the offering. This would include system integration costs, project management, incentives for PV systems, and the revenue requirement associated with the APS-owned inverters through the RES adjustor.

A few comments addressed the funding of the Integrated Pilot Program, questioning the use of REST funding for such an application. Staff has reviewed the APS request and believes that some funding for the Integrated Pilot Program is appropriate and that, since APS was ordered by the Commission to develop such a project, the funding should be approved in the 2012 REST Plan, but at a level of \$700,000 rather than the \$1.5 million originally requested.

#### **Utility-Owned Projects**

APS contends that the acquisition of solar resources via utility ownership is consistent with APS resource planning efforts. APS claims that the "cost to customers as a whole is

significantly less for utility-owned projects over the life of a renewable energy asset, as compared with the cost of purchased power."

APS mentions that 97 percent of its current 227 MW of renewable generation capacity is owned and financed by third-party developers. If the additions proposed in the 2012 plan are approved, APS would have by year-end 2015, a portfolio of 886 MW of third-party owned and financed capacity (totaling 78 percent of total capacity) and 256 MW of APS-owned resources (totaling 22 percent of total capacity).

APS is requesting Commission approval for cost recovery of the revenue requirements associated with the renewable ownership programs (to include property taxes, depreciation expenses, operating and maintenance expenses, and return on debt and equity using the pre-tax weighted average cost of capital approved in the Company's most recent general rate case). This recovery would be through the RES adjustor until such time as the costs may be reflected in base rates. APS mentions that this recovery method is consistent with Section 15.7 of the 2009 Settlement Agreement approved in Decision No. 71448 and with the Commission decisions related to the Community Power Project (Decision No. 71646), the AzSun Program (Decision Nos. 71459 and 71502), and the Schools and Government Program (Decision Nos. 72022 and 72174).

In its September 21, 2011, Supplementary Filing & Notice of Errata, APS corrects the figures shown on Page 13, Lines 11-12 of the original APS application. In that correction, APS states that the total renewable capacity under proposed APS Option 2 is 756 MW, of which 79 percent would be third-party owned and financed and 21 percent would be APS-owned.

The issue of how much renewable generation should be utility-owned and how much should be owned by third parties is the most controversial item in the REST Plan. Staff believes that the Commission should be aware of two important aspects of the policy issue.

First, over the past few months there has been a healthy discussion between the Solar Alliance and APS over which approach, utility-owned or third-party owned, is the best deal for ratepayers. This issue was discussed at the APS REST stakeholder meeting on September 30, 2011. At that meeting, it appeared that APS and the Solar Alliance agreed that the cost to non-participating ratepayers was about comparable, no matter who owned the system. Basically, this means that neither approach is vastly superior to the other in terms of impacts on non-participating customers. Assuming that is correct, Staff believes that the Commission should consider the second aspect of the issue.

The second aspect is related to how the APS customers will pay for the renewable generation required by the REST Rules and the 2009 APS Settlement Agreement. Currently, renewable generating projects owned by APS, such as the AzSun Projects, have their revenue requirements funded through the APS adjustor until the generation is included in the rate base as a result of a rate case. This has the short-term effect of increasing the REST adjustor charge for a while, while the revenue requirements are being collected through the REST adjustor and then the adjustor drops in the year that the assets are moved into rate base.

The best description of this effect is shown on Line 3 in Revised Exhibit 2A of the APS September 21, 2011, Supplemental Filing and Notice of Errata. Line 3 is for Purchases and Generation. In 2012, that line shows \$67.5 million, but in 2013, the amount in Line 3 drops to \$46 million. This shows the impact of the first phase of AzSun projects being moved into rate base. In 2014, Line 3 increases (temporarily) to \$104.8 million and in 2015, it drops again to \$84.3 million when the next set of utility-owned renewable generators are moved into rate base.

If the Commission were to agree to the proposals to block APS from new ownership of renewable generators and, instead, require that the funding go to third-party PBIs and PPAs, the resulting PBI and PPA funding commitments would remain in the REST budget for up to 20 years. Each year, that commitment would be joined by a new set of 10 to 20-year PBI/PPA commitments. Unlike utility-owned assets which would be removed from the REST adjustor every few years as they are added to rate base, the PPA/PBI commitments will never be removed from the adjustor, causing the REST budget to continue increasing every year.

#### The Expanded AzSun Program

The 2012 expansion of the AzSun Program continues the program that the Commission first approved for the initial 100 MW phase of the AzSun program in 2010. APS is requesting authorization to develop another 100 MW of solar generation through the AzSun Program. APS expects that about 18 MW will start operating in 2013, approximately 32 MW will start up in 2014, and approximately 50 MW will start up in 2015.

Staff recommends Commission approval for APS to build an additional 100 MW of solar generation through the AzSun Program. The recovery mechanism would be the same as that for the first 100 MW phase.

#### Funding of the Chino Valley Project

APS is also requesting Commission authorization for recovery of \$5.3 million in revenue requirements for the 19 MW of the Chino Valley Project, which was part of the second 50 MW of AzSun projects approved by the Commission in Decision No. 71502. In that Decision, the Commission assured cost recovery for the entire 100 MW of the first phase of AzSun projects. However, the Commission deferred determining the recovery mechanism for the second 50 MW to the rate case that APS filed on June 1, 2011.

APS would like an earlier decision on the cost recovery mechanism for the Chino Valley Project. APS says that this earlier decision would let the construction start in January 2012 and the project would be operational by the end of 2012. APS projects that \$20 million of labor and materials will be sourced from the Chino Valley area, and the new system will provide an increase in the local tax base.

Staff recommends that the Commission approve APS' request to recover the revenue requirements of the Chino Valley Project through the RES adjustor. APS had originally requested \$5.3 in recovery of revenue requirements. Staff recommends that the system start-up

be delayed until September 30, 2012. This would reduce the revenue requirement in 2012 by \$1.7 million, dropping the revenue requirement for this project from \$5.3 million to \$3.6 million in 2012.

#### **Other Key Programs**

#### Schedule 6: Interconnection Study Service

In Decision No. 72022, the Commission approved Service Schedule 6. Service Schedule 6 streamlines the interconnection process for non-DE projects on the APS distribution system. It provides APS an opportunity to assess engineering study fees and appropriate application fees.

APS proposes to change Service Schedule 6 to include non-FERC projects that interconnect at or above the 69 kV level. This change will accommodate developers wishing to accomplish transmission interconnection under a non-FERC process. The applicant would pay the actual cost for each of the three levels of non-FERC transmission studies. The applicants would provide a deposit prior to the start of the studies. There would be a true-up once the studies are completed.

Staff recommends approval of the changes to Service Schedule 6.

#### Research, Commercialization, and Integration

A total of \$1.8 million is allocated for Research, Commercialization, and Integration in the APS 2012 Plan. Studies include the high penetration of distributed resources and impacts on the distribution system, energy storage, and solar cost integration studies. Also included are studies about combined solar, plug-in hybrid electric vehicles and solar water heating analysis.

Staff recommends that the Commission reduce the Research, Commercialization, and Integration budget by \$500,000 from \$1.8 million to \$1.3 million.

#### Customer Outreach, Marketing, and Partnership Development

APS proposed a program of customer outreach, marketing and partnership development to meet the RES requirements. Included is a continuation of the Qualified Solar Installer and Trained Solar Installer Program. APS wants to further expand the APS Energy Star® and Solar Homes Program. APS would continue with its website, aps.com and the ArizonaGoesSolar.org website. APS is proposing the discontinuation of its residential financial lending incentive, due to lack of participation by lending institutions.

Staff recommends approval of these changes.

#### Customer/Community-Sited Utility-Owned Resources

In addition to the APS request for approval of 25 MW of utility-owned schools projects in 2012 and 2013, APS has requested approval for 25 MW of utility-owned customer and/or

community-sited community resources in 2014 and 2015. APS plans to provide more details about this new community-sited effort when it files the APS 2013 RES Implementation Plan.

Staff has reviewed the APS request for 25 MW of new utility-owned and operated community-sited projects and recommends approval.

#### Staff's Concerns About REST Plan Formats

Staff is concerned that the REST Implementation Plans and REST Compliance Reports are so diverse in format and content that it is difficult, if not impossible, for Staff and the Commissioners to compare the programs and results from one utility to another. Staff believes that, by developing a standardized template format for both the Implementation Plans and Compliance Reports, Staff, Commissioners, industry stakeholders and the general public will better be able to consider and compare the plans and performance of all Arizona utilities subject to the REST Rules.

In order for the public and the Commission to better understand the Utility Plans and Compliance Reports, Staff believes that the utilities should work cooperatively to develop a template for detailed spreadsheets that viewers can download and work with to explore alternative scenarios. The detailed spreadsheets shall be in native format, including the assumptions used by the utilities and the data to support the utility calculations. Care must be taken to protect competitively confidential information, so that information would be blacked out in the public version.

Staff recommends that the Commission order Arizona Public Service Company to work with Tucson Electric Power Company to jointly lead an effort to establish a REST Format Working Group that would meet periodically with all other utility representatives to develop standardized template formats for both REST Implementation Plans and REST Compliance Reports. Staff recognizes that each utility is unique in a number of ways, so Staff suggests that templates have two parts: mandatory information and optional/other information. The first part would be detailed and identical in format. The second part would be an optional portion with a flexible format that would vary by utility. The Working Group would solicit input, suggestions, and detailed recommendations for stakeholders and the general public. In addition to developing the templates of Implementation Plans and Compliance Reports, the Working Group would develop templates for detailed spreadsheets that would be made available to the public on both the utility website and the ArizonaGoesSolar.org website.

The Working Group would docket a report with its recommendations, for Staff approval, no later than September 1, 2012. The effective date for usage of the templates would be April 1, 2013, for the 2012 Compliance Reports and July 1, 2013, for the 2014 REST Implementation Plans.

#### New Proposals by Stakeholders

In the past month, two organizations have submitted alternative proposals to the three APS options. They are the Solar Alliance and Green Choice Solar.

The Solar Alliance ("SA") proposal would deploy 300 MW of renewable capacity in 2012 and 2013. The SA proposal would reduce the APS-owned portion of the Schools and Government Program and shift funds to third party owned projects. The proposal would also reduce the small commercial UFI funding and medium and large non-residential PBI funding from the APS proposal. Similarly, the SA proposal would reduce the residential DE incentives proposed by APS in APS Option 3. SA contends that its proposal can be accomplished with a residential surcharge cap of \$5.92.

The Vote Solar Initiative provided comments in support of the Solar Alliance Proposal. Vote Solar believes the SA proposal is an improvement on APS' three options and that the SA proposal "provides greater near term market certainty" than the APS options.

Staff has reviewed the SA proposal. Staff notes that, unlike the APS proposed three options which show the five-year budget impact of the three options, the SA proposal only shows a proposal for shifting MWs of capacity from utility ownership to third-party ownership.

Staff believes that the Solar Alliance has not provided a convincing argument of why the Commission should select the SA proposal. It is tempting to make the comparison only for 2012, but that provides Staff and the Commission with little data upon which to make a decision. Most non-residential projects approved in 2012 will not reach start-up until 2013, when a series of incentive payments will commence for up to 20 years. So, when considering PPAs and PBIs approved in 2012, the full REST budget impact will not be seen until 2014 when APS will likely see its first full year of incentive payments for the new projects.

The Commission should consider the phenomenon that Staff calls the "PBI Paradox." In the past, non-residential PBI projects have looked like a "great deal" because, even at an incentive of 10-15 cents per kWh, the projects appear to be a "bargain." If the incentive payments are low, say \$100,000 or \$200,000 per project per year, the near-term budget impact is minimal. However, each year, new contracts are added to the APS long-term payment requirements. Each new contract permanently increases the annual REST budget. Unlike Up-Front Incentives, which pay once for a lifetime of renewable kWh and pay nothing in future years, the PBI payments are a commitment for the life of the contract.

Green Choice Solar introduced four new proposals: Options A, B, C, and D. Unlike the Solar Alliance proposal, which shifts MWs from APS and from non-residential PBIs to third-party PPAs, Green Choice Solar's proposals shift MWs from APS ownership or third-party PPAs to non-residential PBIs.

Staff has reviewed the Green Choice Solar proposals. Staff believes that the Green Choice Solar proposals have a problem similar to that of the Solar Alliance. Green Choice

Solar's proposals merely shift around the MWs from one ownership option to another. Similar to the Solar Alliance, Green Choice Solar failed to demonstrate the multi-year budget impact of its proposed proposals. Without a budget impact comparison of Green Choice Solar's proposals to the APS and Solar Alliance proposals, it is impossible to determine which proposal offers the ratepayers the best long-term deal. Staff finds no convincing evidence that the proposals by the Solar Alliance and Green Choice Solar are better for ratepayers than the APS approach.

#### Staff's Proposed Budget Changes and Recommended Options

The following are Staff's proposed changes to the APS REST Plan budget proposal, as outlined in APS REVISED Exhibit 2A, filed on September 21, 2011:

<u>Line 3 (Purchases and Generation)</u>: By delaying the start-up of the Chino Valley project until September 30, 2012, the Revenue Requirements for that project should be reduced by \$1.7 million from \$5.3 million to \$3.6 million.

Line 22 (Schools and Government): By delaying the in-service dates for certain projects, the budget for 2012 should be reduced by \$1.7 million.

Line 23 (APS Customer Sited Community Solar): APS should reduce the funding in this program by \$1.5 million. This reduction reflects a mid-year deployment.

<u>Line 24 (EE/RE Integrated Pilot)</u>: APS should reduce the funding in this program by \$800,000. This reduction reflects the new, lower incentive levels that will be available in 2012.

Line 25 (Energy Assistance for Renewable Neighborhoods): APS should reduce the funding in this program by \$300,000 to reflect lower incentive levels.

<u>Line 32 (Implementation)</u>: APS should reduce expenses by \$300,000 from \$5 million to \$4.7 million. This reflects the reduced need for meters in 2012 due to greater than expected installs in 2011.

<u>Line 34 (Renewable Energy Incentive Program Non-Incentive Costs)</u>: APS should reduce funding by \$300,000 from \$2.3 million to \$2.0 million.

Line 35 (Advertising): APS should reduce its Advertising by \$500,000 from \$700,000 to \$200,000.

<u>Line 40 (Research, Commercialization, and Integration)</u>: APS should reduce funding in this program by \$500,000 from \$1.8 million to \$1.3 million.

Line 45 (Residential and Commercial DE): Changes in this line will be detailed in Staff's Option A and Option B proposals.

Staff has reviewed the APS 2012 REST Plan application and the comments of stakeholders and interested parties. Staff has developed for Commission consideration two proposed options that are similar to APS Options 1 and 3, but have been modified in a number of places. Staff's two options are named Staff Option A and Staff Option B. The budget impacts of these two options are compared to APS' Options 1-3 in Table 10.

<u>Staff Option A</u>: Option A is similar to Option 3 in the APS 2012 REST Plan. Staff believes that Option A allows Commissioners to permit APS to operate programs that will allow it to meet the REST Rules requirements, the 2009 Settlement Agreement requirements for renewable generation and the Schools and Government Program as well as meeting the spirit of the Commission order in Decision No. 72022, requiring the funding for the residential solar program to be maintained at \$40 million in 2012.

Staff notes that the residential PV marketplace has changed significantly since December 2010. The greatly reduced cost of PV panels and the significant reduction in PV system installed costs has convinced Staff that a lower PV UFI is appropriate for residential customers in 2012. In addition, Staff notes that since June 2011, when the \$1/watt Rapid Reservation Program began to attract a significant number of customers, APS has averaged approximately 50 applications per week, which indicates that the residential demand for PV systems is approximately 2,600 systems per year at \$1/watt.

Staff recommends that a portion of the \$40 million originally planned for residential systems be re-allocated to non-residential UFI incentives and PBI incentives. Staff agrees with some of the solar industry's comments that the APS plan for non-residential PBI systems as proposed in APS Options 1, 2, and 3 could have a damaging impact on the non-residential solar industry in Arizona.

For Staff Option A, Staff proposes to reduce the \$40 million residential set-a-side to \$30 million, including both residential and non-residential applications. This would include \$25 million for residential incentives and programs and \$5 million for non-residential programs. The Option A incentive package would include:

Staff's Option A	APS Option 3		
DE Program Element	Amount	Amount	
Residential PV Incentives	\$ 18,000,000	\$ 31,400,000	
Non-PV Technology Incentives	\$ 3,750,000	\$ 6,000,000	
Energy Star® Plus Solar Homes	\$ 3,250,000	\$ 2,600,000	
Small, Non-residential UFIs	\$ 4,400,000	\$ 2,000,000	
Medium-size, Non-residential PBIs	\$ 300,000	\$ 150,000	
Large size, Non-residential PBIs	\$ 300,000	\$ 150,000	
Total	\$ 30,000,000	\$ 42,300,000	

Table 3: DE Program Proposal for Staff's Option A Compared to APS Option 3

For the non-residential PBI programs, APS would commit to a lifetime commitment for medium-sized, non-residential projects of \$20 million in each year between 2012 and 2014. APS would commit to a similar \$20 million per year of lifetime commitment in each year between 2012 and 2014 for large-sized, non-residential projects.

The total 2012 budget proposed by Staff in Option A is \$131.7 million. At that budget level, APS calculates that it would need a surcharge of \$0.013861 per kWh with a residential cap of \$5.54 per month, a small non-residential cap of \$205.94 per month, and a large non-residential cap of \$617.83 per month.

<u>Staff Option B</u>: Option B is similar to Option 1 in the APS 2012 REST Plan. This option allows the Commission an approach that provides only sufficient funding to meet the 2012 REST DE requirements and some additional funding toward meeting the Schools and Government Program and 2009 Settlement requirements ordered by the Commission.

In the original APS REST Plan document, APS proposed three optional DE incentive budgets: \$20 million, \$29.9 million, and \$40 million. The breakdown of those proposed options is shown below:

	Option 1	Option 2	Option 3
PV Incentive Budget*	14.4	22.8	31.4
Non-PV Technology Incentive Budget**	3.0	4.5	6.0
Energy Star® Plus Solar Homes	2.6	2.6	2.6
Total Incentive Budget by Option	20.0	29.9	40.1

#### Table 4: APS Proposed 2012 Residential Incentive Budget Options (in \$Millions)

\* Includes \$3.0 million in each of the three Options for \$1/watt incentives

\*\* Represents 15% of total residential incentive budget

On September 21, 2011, APS submitted its Supplementary Filing and Notice of Errata. In that filing, APS revised its estimate of funding needed to meet the 2012 REST residential requirement. Due to Commission Decision No. 72592, which reduced the residential incentive to \$1/watt, APS calculated that it would take \$5.2 million less in 2012 to meet the 2012 residential REST requirement than was originally projected last July.

For Staff Option B, Staff proposes to reduce the residential incentive portion to \$17 million and add in a non-residential package of incentives of \$2 million. The total DE incentive package under Staff Option B would be \$19 million, a reduction of \$1 million from APS Option 1. The Staff Option B incentive package includes:

Staff's Option H		APS Option 1			
DE Program Element	ent Amount			Amount	
Residential PV Incentives	\$	11,500,000	\$	14,400,000	
Non-PV Technology Incentives	\$	2,500,000	\$	3,000,000	
Energy Star® Plus Solar Homes	\$	3,000,000	\$	2,600,000	
Small, Non-residential UFIs	\$	1,800,000	\$	0	
Medium-size, Non-residential PBIs	\$	100,000	\$	0	
Large size, Non-residential PBIs	\$	100,000	\$	0	
Total	\$	19,000,000	\$	20,000,000	

Table 5:	<b>DE</b> Program	Proposal for	r Staff's O	ption B Com	pared to APS Option 1

For the non-residential PBI program, APS would commit a total lifetime commitment for medium-sized, non-residential projects of \$10 million in each year between 2012 and 2014. The \$100,000 large system PBI allocation would represent a total lifetime commitment of \$10 million in each year between 2012 and 2014 for the large non-residential systems.

The total 2012 budget proposed by Staff in Option B is \$120.7 million. At that budget level, APS calculates that it would need a surcharge of \$0.012639 per kWh with a residential cap of \$5.06 per month, a small non-residential cap of \$187.77 per month, and a large non-residential cap of \$563.32 per month.

#### A Comparison of Staff's Proposals and APS' Proposals

In order to determine the best approach for APS to follow, a direct comparison of the APS and Staff proposals is appropriate. The first comparison is the monthly customer impact in terms of surcharges and monthly caps.

Table 6 below shows the proposed surcharge per kWh for each APS and Staff option as well as the proposed caps under each option, in comparison to what is currently in effect for 2011.

	2011	2012 APS	2012 APS	1	2012 Staff	2012 Staff
	Approved	Option 1*	Option 2	Option 3	Option A	Option B
REST Charge						
(per kWh)	\$0.0101320	\$0.013013	\$0.014907	\$0.016037	\$0.013861	\$0.012639
Class Caps		4 				
Residential	\$ 4.05	\$ 5.21	\$ 5.96	\$ 6.41	\$ 5.54	\$ 5.06
Small						
Commercial	\$150.53	\$193.33	\$221.47	\$238.27	\$205.94	\$187.77
Large						
Commercial						
(3 MW+)	\$457.60	\$579.99	\$664.40	\$714.81	\$617.83	\$563.32

Table 6:	Comparison	of Surcharges	and Caps

**\*NOTE**: As modified in the APS September 21, 2011, Supplementary Filing.

For comparison purposes, Table 7 below shows the projected MWH by customer class for 2012.

Customer Class	2012 Projected Sales (MWH)	
Residential	13,320,427	47%
Small Commercial	11,717,866	42%
Large Commercial	3,148,821	11%
	28,187,114	100%

### Table 7: Projected MWH Sales by Customer Class for 2012

Table 8 below shows the contribution, per kWh consumed, for each customer class (projected class cost recovery divided by projected class kWh sales). The table thus provides a comparison of the relative contribution to REST funding by each customer class on a per kWh basis.

Contribution by Customer Class (\$/kWh)	2011 RES Plan	2012 APS Option 1	2012 APS Option 2	2012 APS Option 3	2012 Staff Option A \$131.7 M	2012 Staff Option B \$120.7 M
Residential	\$0.00351	\$0.00458	\$0.00522	\$0.00560	\$0.00486	\$0.00446
Small						
Commercial	\$0.00413	\$0.00526	\$0.00600	\$0.00644	\$0.00559	\$0.00512
Large						
Commercial	\$0.00045	\$0.00050	\$0.00055	\$0.00057	\$0.00052	\$0.00050

The cost recovery by customer class for the approved 2011 REST Plan and estimates for the APS and Staff options for the 2012 REST Plan are shown in Table 9.

Table 9: Cost Recovery/Contribution	n by Customer Class for
Approved 2011 Plan and Prop	bosed 2012 Plans

Contribution by Customer Class (\$/kWh)	2011 RES Plan	2012 APS Option 1	2012 APS Option 2	2012 APS Option 3	2012 Staff Option A \$131.7 M	2012 Staff Option B \$120.7 M
Residential	\$46,799,257	\$61,055,346	\$69,490,699	\$74,553,978	\$64,801,453	\$59,426,665
	49%	49%	49%	49%	49%	49%
Small						
Commercial	\$48,447,436	\$61,646,352	\$70,293,906	\$74,459,603	\$65,542,641	\$59,987,327
	50%	50%	50%	50%	50%	50%
Large						
Commercial	\$1,153,307	\$1,298,302	\$1,415,395	\$1,486,419	\$1,355,906	\$1,296,008
	1%	1%	1%	1%	1%	1%
Total	\$96,400,000	\$124,000,000	\$141,200,000	\$151,500,000	\$131,700,000	\$120,700,000

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Line			APS	*	TAFF A	¢	STAFF B
<u>No.</u>	(\$ MILLIONS)		<u>711 0</u>	<u>0</u>		<u>_</u>	<u>, , , , , , , , , , , , , , , , , , , </u>
1	Renewable Generation						
2	Renewable Generation Contracts and O&M	<b>^</b>	<i></i>	<u> </u>			
3	Purchases and Generation	\$	67.5	\$	65.8	\$	65.8
4	Administration		1.9		1.9		1.9
5	Implementation		<u>    1.3</u>		1.3		1.3
6	Total RG Contracts and O&M	\$	70.7	\$	69.0	\$	69.0
7	Offsets	<b>^</b>	(0, 0)	•	(0, 1)		(a. a)
8	Estimated Green Choice Revenue Credit	\$	(0.6)	\$	(0.6)	\$	(0.6)
9		¢	70 1	0	<i>(</i> <b>)</b> <i>(</i>		<i>(</i> <b>)</b> <i>(</i>
10	Total Renewable Generation (line 6 + line 8)	\$	70.1	\$	68.4	\$	68.4
11	Custom on Sited Distributed Energy						
12	Customer Sited Distributed Energy						
13	Existing Contracts and Commitments DE RFP	\$	4.0	¢	4.0	¢	1.0
14 15	Innovative Technologies	Ф	4.9 0.2	\$	4.9 0.2	\$	4.9 0.2
			0.2 7.9				
16	PBIs (Existing) Flagstaff CPP				7.9 0.4		7.9
17 18	Wholesale DE		0.4 0.2		0.4		0.4
18	Total Existing Contracts and Commitments	\$	13.6	\$	13.6	\$	<u> </u>
20	Total Existing Contracts and Communents	φ	13.0	Ş	15.0	Þ	15.0
20	New Incentives and Commitments						
21	Schools and Government Program		6.8		5.1		5.1
23	Customer Sited Community Solar		2.9		1.5		1.5
24	EE/RE Integrated Pilot		1.5		.7		.7
25	ELINE Integrated That		0.5		0.3		0.3
26	Total New Incentives and Commitments	\$	11.7	\$	7.6	\$	7.6
27		· · ·		Ψ		Ψ	
28	Total Incentives & Commitments (line 19 + line 26)	\$	25.3	\$	21.2	\$	21.2
29						·	
30	Non-Incentive DE Costs						
31	Administration	\$	2.2	\$	2.1	\$	2.1
32	Implementation		5.0		4.7		4.7
33	Information Technology		1.8		1.8		1.8
34	Renewable Energy Non-Incentive Costs		2.3		2.0		2.0
35	Advertising		0.7		0.2		0.2
36	Total Non-Incentive DE Costs	\$	12.0	\$	10.8	\$	10.8
37							
38	Total Customer Sited DE (line 28 + line 36)	\$	37.3	\$	32.0	\$	32.0
39							
40	Research, Commercialization & Integration		1.8		1.3		1.3
41					<u>.</u>		
42	Base RES Budget (line 10 + line 38 + line 40)	\$	109.2	\$	101.7	\$	101.7
43							
44	Total RES Budget	¢	11.5			<b>^</b>	10.5
45	Option 1 additions	\$	14.8			\$	19.0
46	Base RES plus Option 1 total	\$	124.0			\$	120.7
47	Option 2 additions	\$	32.0				
48	Base RES plus Option 2 total	\$	141.2	<u>ب</u>			
49 50	Option 3 additions	\$	42.3	\$	30.0		
50	Base RES plus Option 3 total	\$	151.5	\$	131.7		

## Table 10: Comparison of APS' and Staff's Budget Proposals

#### Staff Recommendations

- 1. Staff recommends that the Commission approve the Staff proposed Option A, reflecting a REST charge of \$0.013861 per kWh, with monthly caps of \$205.94 for non-residential customers, and \$617.83 for non-residential customers with demands of 3 MW or greater. This includes a total budget of \$131,700,000.
- 2. Staff recommends that the residential PV Up-Front Incentive be set at \$0.85 per watt on January 1, 2012.
- 3. Staff recommends approval of the trigger mechanisms for reducing Photovoltaic up-front incentives as proposed by Staff.
- 4. Staff recommends that residential customers only be allowed to collect incentives up to 40 percent of the total system installed cost.
- 5. Staff recommends that the residential geothermal system incentive be set at \$0.80 per kilowatt hour.
- 6. Staff recommends that the DE Program Element budgets be set at levels in Staff proposed Option A.
- 7. Staff recommends that the new home building incentive be set at \$0.85 per watt.
- 8. Staff recommends that the non-residential Up-Front Incentive be set at \$0.85/watt.
- 9. Staff recommends that the upper limit for non-residential Production Based Incentives be set at \$0.084 per kWh for 10-year contracts, \$0.082 per kWh for 15-year contracts, \$0.08 per kWh for 20-year contracts and that customers shall only be allowed to collect up to 40 percent of the total system installed cost.
- 10. Staff recommends that the Rapid Reservation Program be eliminated since it is no longer needed.
- 11. Staff recommends that the APS proposal to install \$600,000 in new meters be deleted from the REST Plan.
- 12. Staff recommends that the Commission order the adoption by APS of the AriSEIA Security Deposit Proposal in lieu of the APS Security Deposit Proposal.
- 13. Staff recommends that the Commission order APS to evaluate the AriSEIA security deposit approach in 2012 and be prepared to make adjustments, if necessary, when the Commission considers the APS 2013 REST Plan.

- 14. Staff recommends approval of the other DE Program enhancements as discussed herein.
- 15. Staff recommends that third-party incentives for the Schools and Government Program be capped at \$0.12 per kilowatt hour for 15-year contracts and \$0.10 per kilowatt hour for 20-year contracts. Total incentives per project would be capped at 40 percent of total system installed cost. APS should change its project selection criteria to select the lowest-cost third-party incentive projects, similar to the existing non-residential PBI.

In regard to the APS proposal to allow expansion of utility-owned Schools and Government projects, Staff recommends that APS be allowed to expand utility-owned projects by an additional 15 MW that would focus on the most economically challenged schools in all areas of APS' service territory.

- 16. Staff recommends approval of an additional 10 MW of third-party schools projects, but only if they are allocated by a least-cost method and subject to Staff's proposed incentive caps. Total incentives per third party project would be capped at 40 percent of the total system installed cost.
- 17. Staff recommends approval of the funding of the Integrated Pilot Program at a reduced budget level as discussed herein.
- 18. Staff recommends approval of Staff's proposed budget changes as discussed herein.
- 19. Staff recommends Commission approval for APS to build an additional 100 MW of utility-owned solar generation through the AzSun Program. The recovery mechanism would be the same as that for the first 100 MW phase.
- 20. Staff recommends that the Commission approve APS' request to recover the revenue requirements of the Chino Valley Project through the RES adjustor. Staff recommends that the system start-up be delayed until September 30, 2012. Staff recommends that the revenue requirement for this project be set at \$3.6 million in 2012.
- 21. Staff recommends that the Commission reduce the Research, Commercialization, and Integration budget by \$500,000 from \$1.8 million to \$1.3 million.
- 22. Staff recommends approval of the proposed changes in the Customer Outreach, Marketing, and Partnership Development Programs.
- 23. Staff recommends approval of the amended Rate Rider Schedule SGSP.
- 24. Staff recommends approval of 25 MW of new utility-owned and operated renewable systems to be installed in the 2014 and 2015 timeframe.

- 25. Staff recommends that in future REST plans the burden of proof will be borne by APS to justify the use of ratepayer funds to pay for marketing and advertising if APS proposes to use ratepayer funds for marketing in future REST plans.
- 26. Staff recommends approval of the formation of the REST Format Working Group as discussed herein. APS and other utilities would submit the Working Group's report and recommendations by September 1, 2012, for Staff approval.
- 27. Staff recommends approval of the APS Adjustment Schedule RES as modified herein.
- 28. Staff recommends approval of the Renewable Energy Standard Adjustment Schedule Plan of Administration as modified herein.
- 29. Staff recommends that APS file tariffs in compliance with the Decision in this case within 15 days of the effective date of the Decision.

Steven M. Olea Director Utilities Division

SMO:RTW:lhm\MAS

ORIGINATOR: Ray Williamson

1	BEFORE THE ARIZONA CORPORATION COMMISSION
2	GARY PIERCE Chairman
3	BOB STUMP Commissioner
4	SANDRA D. KENNEDY Commissioner
5	PAUL NEWMAN Commissioner
6	BRENDA BURNS Commissioner
7	Commissioner
8	IN THE MATTER OF ARIZONA PUBLIC ) DOCKET NO. E-01345A-11-0264 SERVICE COMPANY – APPROVAL OF )
9	ITS 2012 RENEWABLE ENERGY } DECISION NO
10	STANDARD IMPLEMENTATION PLAN     ORDER       AND REQUEST FOR RESET OF
11	RENEWABLE ENERGY ADJUSTOR
12	)
13	Open Meeting November 8 and 9, 2011
14	Phoenix, Arizona
15	BY THE COMMISSION:
16	FINDINGS OF FACT
17	1. Arizona Public Service Company ("APS" or "Company") is certificated to provide
18	electric service as a public service corporation in the State of Arizona.
19	2. On July 1, 2011, APS filed its application for approval of its 2012 Implementation
20	Plan ("2012 Plan") pursuant to the Renewable Energy Standard and Tariff ("REST") Rules.
21	3. On September 21, 2011, APS filed its Supplementary Filing and Notice of Errata.
22	The supplementary filing included corrections and clarifications of the July 1 application.
23	The APS REST Implementation Plan 2012 to 2016
24	4. The APS application includes the 2012 Implementation Plan, Renewable Energy
25	Standard Adjustment Schedules, a Renewable Energy Standard Plan of Administration, a Schools
26	and Government Solar Program Rate Rider Schedule, and an updated Service Schedule 6. In the
27	2012 Plan, APS offers three different options for Arizona Corporation Commission
28	("Commission") consideration. The three options include budgets of \$129.2 million, \$141.2

million, and \$151.5 million. The residential RES Surcharge cap would increase by \$1.38 in Option 1, by \$1.91 in Option 2, and by \$2.36 in Option 3.

Docket No. E-01345A-11-0264

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	<u>Option 1</u>	Option 2	Option 3
2012 Budget	\$129.2 M	\$141.2 M	\$151.5 M
2012-2016 Budget	\$783.1 M	\$810.2 M	\$873.8 M
2012 RES Adjustor per kWh	\$0.013586	\$0.014907	\$0.016037
2012 Residential Cap	\$5.43	\$5.96	\$6.41
2012 Non-Res. (under 3 MW) Cap	\$201.84	\$221.47	\$238.27
2012 Non-Res. (3 MW and over) Cap	\$605.53	\$664.40	\$714.81

Table 1: APS' Proposed 2012-2016 Budget Options

5. The 2012 Plan design is to achieve and exceed compliance with the 2012 REST Rules requirements. In 2012, APS must obtain 3.5 percent of its total retail energy sales from renewable energy resources, and 30 percent of that renewable requirement must come from distributed energy ("DE") systems. APS expects to exceed the 2012 RES compliance in all categories.

6. In addition to the requirements of the REST Rules, APS must also obtain renewable resources to meet the 2009 Settlement Agreement, as required by Commission Decision No. 71448, issued December 30, 2009, in Docket No. E-01345A-08-0172. Per this Decision, APS must obtain new renewable energy resources with annual generation or savings of 1,700,000 megawatt hours by December 31, 2015. This requirement, in effect, doubles the renewable requirements in the REST Rules. These extra requirements will cause significant budget impacts on the 2012 REST budget.

APS contends that once the 2012 REST budget is approved, it must immediately
 commence procurement activity in order to meet the 2015 Settlement requirements in a cost effective manner.

8. APS claims that it will need to procure an additional 300 MW or 502,500
megawatt-hours by December 31, 2015, in order to meet the 2009 Settlement requirements.

The APS plan includes two approaches to meet its 2009 Settlement requirements.
 First, APS will need additional customer or third-party owned systems. Second, APS will need

more utility-owned systems. These utility-owned systems will include new additions to the AZ
 Sun Program. APS would like to procure 150 MW through each of the two procurement methods
 in order to meet the 2009 Settlement Agreement requirements.

#### 4 The 2012-2016 REST Program Options

10. APS believes that Option 1 is the minimal budget needed to meet the 2012 REST
requirements and the 2009 Settlement Agreement obligations. Option 3 reflects the Commission
order in the APS 2011 REST Plan docket to have a 2012 residential DE budget of \$40 million.
Option 2 falls in between the two other options, offering the Commission another choice in lieu of
Option 1 or 3.

10 *Option 1*:

11 11. This option includes 150 MW to be procured via Purchased Power Agreements
12 ("PPAs") in 2012 through 2015.

13 12. Option 1 does not include a budget item for additional non-residential DE projects,
14 since APS expects to be in compliance with the 2012 REST requirements without any additional
15 non-residential projects. This option includes only enough funding needed to meet the 2012
16 residential DE requirement. The residential DE budget portion of Option 1 is \$20 million. This
17 would add about 17 MW of new residential capacity in 2012. The total Option 1 budget would be
\$129.2 million.

19 <u>Option 2</u>:

Option 2 would include procurement of 125 MW through PPAs in the period of 20 13. 2012 through 2015. It would continue the non-residential DE Program with a 25 MW expansion 21 between 2012 and 2014. APS would not fund any large scale projects (greater than 200 kW) in 22 23 this option. APS would allocate \$2 million for small, non-residential projects (less than 30 kW) using Up-Front Incentives ("UFI"). A total of \$100,000 in 2012 would be reserved for medium-24 25 sized (30-200 kW) projects. This would represent a \$10 million increase in total lifetime 26 commitment for each year between 2012 and 2014. Option 2 would allocate \$30 million to the residential DE program, which would add about 26 MW of new residential capacity in 2012. The 27 total REST budget under Option 2 is \$141.2 million. 28

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1	<b>Option</b>	3.	

2 14. In Option 3, APS would solicit 100 MW through PPAs in the period 2012 through 3 2015. This option would expand the non-residential DE program by 50 MW during the period 4 from 2012 to 2014. A budget of \$2 million would be budgeted for Up-Front Incentives for small 5 non-residential projects. A budget of \$300,000 in 2012 would be used for large and medium-sized 6 projects. This would represent a lifetime commitment of \$20 million each year between 2012 and 7 2014. This would result in 50 MW from medium and large projects. As ordered in Decision No. 8 72022, Option 3 would include \$40 million for residential DE incentives which would procure 9 about 34 MW of capacity. The Option 3 budget would be \$151.5 million.

#### 10

#### **Residential Incentive Funding**

11 15. APS is proposing residential incentives of \$1.30/Watt, which would continue to decrease with market-driven triggers. APS proposes to decrease the incentive for residential 12 13 geothermal systems from \$0.90/kilowatt hour of first-year savings to \$0.80/kilowatt hour.

16. APS proposes to allocate \$3 million of the residential incentive funds to the Rapid 14 15 Reservation Program. APS also proposes to set-aside 15 percent of the residential budget for nonphotovoltaic ("PV") technologies. Finally, APS proposes \$2.6 million for the Energy Star® Plus 16 17 Solar Homes Program.

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17. A number of favorable comments were provided on the APS proposal to fund the 19 Energy Star® Plus Solar Homes Program at \$2.6 million. They included Shea Homes and 20 Keystone Homes. American Solar recommended that the Solar Homes Program funding be 21 increased to \$4 million in 2012 and that the homebuilder incentive be reduced to \$1.25 per watt.

18. 22 On September 15, 2011, in Decision No. 72592, the Commission approved an 23 application by APS to offer \$1/watt as the residential UFI incentive. At \$1 per watt, APS has been receiving an average of 50 applications per week. At that rate, the residential market in the APS 24 25 service area appears to be around 2,600 systems per year. APS has indicated that its average system size is 7 kW. If the 50 applications per week holds, the average size system remains 7 kW, 26 27 and the incentive were to remain at \$1 per watt, the total incentive budget for 2,600 systems would 28 be \$18,200,000. Under APS Option #1, the \$20 million residential budget allocates \$2.6 million

for the Solar Home Program, \$3 million for non-PV incentives, and only \$14.4 million for PV 1 incentives. So, the \$1/watt incentive would fund only about 2,057 systems per year of demand in 2 3 the residential market, not 2,600.

4 19. Staff believes that the \$1/watt incentive for residential UFI incentives has shown that there is a strong market for residential PV systems. In order for APS to maximize the use of 5 its incentive funds and install the optimum amount of solar per budget dollar in 2012, Staff 6 7 recommends that rather than the \$1.30 per watt incentive proposed by APS on July 1, 2011, the 8 incentive should be set at \$0.85 per watt on January 1, 2012. Therefore, Staff also recommends 9 against any further funding of the Rapid Reservation Program.

20. Staff recommends an automatic trigger mechanism to lower PV incentives in order 10 11 to avoid severe disruptions in the residential marketplace in 2012. Under Staff's proposal for residential DE, the PV UFI would be reduced to \$0.70 per watt if 45 percent of incentive funds are 12 13 reserved on or before June 30, 2012. The second trigger would, if the June 30, 2012 trigger had been reached, reduce the incentive to \$0.50 per watt if 70 percent or more of the incentive funding 14 is reserved prior to September 30, 2012. If the June 30, 2012 trigger has not been reached, then 15 16 the second trigger would reduce the incentive to \$0.70 per watt. The third trigger would involve a 17 step-down in the incentive level if 90 percent of incentive funding is reserved on or before 18 November 30, 2011. The incentive would then be reduced to \$0.50 per watt if both previous 19 triggers were reached, \$0.50 per watt if one previous trigger was reached, and \$0.70 per watt if no previous triggers were reached in 2012. The chart below lays out how the overall trigger 20 21 mechanism would work.

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Table 2:	Staff's Prop	osed Incentive	Triggers and Levels	

	Date of Trigger	Compliance Level to Activate Trigger	Incentive Level if Trigger Activated
;	On or before June 30, 2011	45%	\$0.70 per watt
7	On or before September 30, 2011	70%	\$0.70 per watt if June 30 trigger is not activated. \$0.50 per watt if June 30 trigger is activated.

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On or before November 30, 2011	90%	<ul><li>\$0.70 per watt if no previous 2012 triggers activated.</li><li>\$0.50 per watt if one or both previous 2012 triggers activated</li></ul>
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Quantum 21. On the day that any trigger is activated, APS will notify the solar industry by e-mail
and APS will provide a similar notice on its website. The mechanics of the residential triggers
would include timely notification to the Commission and installers if the trigger is reached. As
well, Staff recommends that APS post information on its own website, and on the
ArizonaGoesSolar.org website at least every two weeks, regarding its progress toward reaching the
triggers.

10 22. Any cancelled project funds added back to the budget would be funded last and 11 allocated at the \$0.70 per watt incentive level if the first trigger is reached, or at \$0.50 per watt if 12 the second or third trigger is reached. The residential customer will only be able to collect an 13 incentive up to 40 percent of the total system installed cost.

Staff proposes an alternative way to fund and encourage more residential solar
demand. First, Staff believes that APS should reduce the new home builder incentive from the
current \$1.75 per watt to \$0.85 per watt. Next, APS should increase the proposed funding of the
Energy Star® Plus Solar Home Program from \$2.6 million to \$3 million.

18 Non-Residential Incentives

19 24. Staff proposes to reduce the non-residential Up-Front Incentive from \$1.75/watt to
20 \$0.85/watt. Project owners would be able to collect up to 40 percent of the system cost in
21 incentives. This reduction is consistent with other PV incentive reductions that have occurred over
22 the past few years in residential UFI and non-residential production-based incentives ("PBIs"). It
23 is also consistent with Staff's recommendations for other incentive reductions in the APS 2012
24 REST Plan.

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## APS' Proposed Elimination/Reduction of Non-Residential PBI and UFI Funds

26 25. Several commenters decried APS' proposal to reduce or eliminate non-residential
27 PBI funds over the next five years. They included Vestar, Green Choice Solar, AriSEIA,
28 WalMart, and the Biltmore Bank of Arizona. They argue that to eliminate or reduce the non-

residential PBI incentives would restrict non-residential customers from REST funding, while APS would continue to collect monthly REST surcharges in funding the program. Staff agrees with the intervenors that the APS approach would be unfair to all the non-residential customers wanting to install renewables under the REST Program. Staff, in its proposed Options A and B has recommended funding levels that will continue a limited non-residential program in 2012 and beyond. However, Staff's recommendations will significantly reduce the cents per kWh PBI incentive and the cap on the allowable total incentives per project.

8 26. Staff believes that APS needs to continue a reasonable level of support for nonresidential projects over the next five years. In addition, Staff believes that the PBI incentive 9 levels and the cap on total incentives collected must decrease significantly in 2012. In the 10 11 residential program, incentives have fallen in the last two years from \$3 to \$1/watt. Two years ago, residential customers could collect \$3 per watt up to half of the system cost. Today at \$1 per 12 13 watt and an average installed system cost of \$5 per watt, the residential incentive only provides 14 about 20 percent of the installed system cost. Staff believes that a similar reduction in nonresidential incentives is due and that without such a reduction, the cost of non-residential PBIs 15 16 will, over time, drive up ratepayer REST monthly charges to unacceptable levels.

17 27. Staff notes that public comments on the APS Plan said it would "eliminate free
18 market competition" and "cripple" the PBI program. Staff believes that the REST Program needs
19 more robust free market competition. Staff believes that its non-residential PBI incentive proposal
20 will signal a new wave of encouragement for lower-cost non-residential installations.

In the current APS Distributed Energy Administration Plan ("DEAP"), the PBI 21 28. 22 incentive caps for 10, 15, and 20-year plans are 15.4, 14.3, and 13.8 cents per kWh, respectively, 23 and the customer may collect up to 50 percent of the installed system cost in incentives. To be consistent with incentive cap reductions in the residential program, Staff recommends that the non-24 residential PBI incentive level limits be reduced to \$0.084 per kWh for 10-year contracts, \$0.082 25 per kWh for 15-year contracts, \$0.08 per kWh for 20-year contracts and that customers shall only 26 27 be allowed to collect up to 40 percent of the total system installed cost of projects approved in 2012. 28

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1 29. Staff notes that merely dropping the incentive level from \$0.138 per kWh to \$0.08 2 per kWh is insufficient for the utility to reduce the total lifetime incentive for a given project. 3 Having a lower incentive of 8 cents will only mean that it will take the customer a few more years 4 to collect the remainder of its allowable 40 percent of installed costs. In order to truly reduce the 5 incentive costs to APS, the cap on lifetime incentives for non-residential projects must be reduced 6 to 40 percent of the total system installed cost.

7 DE Program Enhancements

8 30. APS is proposing changes to its incentive program administration processes to 9 handle the issuance of Internal Revenue Service Form 1099 to residential incentive recipients. 10 APS proposes a new monitoring program to install production meters for small residential and 11 non-residential PV systems that receive Up-Front Incentives. The production meters would be in 12 addition to the bi-directional meter used for billing the customer. The meter will validate the PV 13 production at the customer level. APS hopes to install 7,200 meters in 2012 at a budget cost of 14 \$600,000.

15 31. Two comments were received on the metering proposal. First, the Solar Alliance asked APS to justify the meter installation proposal and asked who would fund the installation of 16 17 the meters. Solar City expressed concern about APS installing meters retroactively on existing systems. Staff has reviewed the APS proposal and recommends that it be deleted from the APS 18 2012 plan. In a year when APS is asking for increases from \$30 million to over \$50 million, Staff 19 20 believes every dollar in the budget must be justified. Staff believes that the \$600,000 in meter installation cost would be better spent on non-residential system incentives. However, if APS truly 21 22 believes that this metering is essential, Staff recommends two possible options. First APS could 23 fund the meters out of non-RES funding sources. Second, APS could develop a program for 2013 24 using a small random sampling of new residential PV systems with new meters. If, by the end of 2013, APS finds that the random sample shows a significant number of new systems are under-25 performing, APS could ask the Commission to expand the metering program in 2014. 26

32. As suggested by solar industry representatives, and required by Decision No.
72022, the APS 2012 REST Plan includes a required security deposit for all non-residential PBI

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program applicants. The Applicant will be required to submit a reservation deposit to APS equal to five percent of the total lifetime PBI commitment request for the reserved project. If the full reservation deposit is not received by APS within seven business days, the conditional reservation will be cancelled and the reservation funds will be awarded to the next ranked project. Once a project is successfully interconnected, with all required paperwork submitted to APS, and has passed inspection, the reservation deposit will be refunded to the applicant.

33. Several parties commented about the APS-proposed security deposit. Green Choice
Solar supports the APS proposal "without any changes." Solar City complained that the
requirements "are too stringent and that the proposal ties up capital." The Arizona Solar Energy
Industries Association ("AriSEIA") objected to the APS Security Deposit proposal, but provided
an alternative proposal:

- An initial deposit is required for performance based incentive projects in the amount of \$3,000 for systems 200 kW AC and under, \$6,000 for systems greater than 200 kW AC and less than 500 kW AC, and \$10,000 for systems over 500 kW AC to the 2 MW limit. This deposit is due 30 days after APS notifies the customer of the incentive award. APS will continue to make new awards to replace forfeited awards until the category's next respective auction, and then roll unused funding into the next period.
  - A second deposit of 2 percent of the lifetime incentive funding requested shall be required. This deposit is due 120 days after notification of award. In lieu of a cash payment, customers may submit bonds or letters of credit for the corresponding amounts. APS will continue to make new awards from the most recent auction within funding category to replace forfeited awards until two weeks before the category's next respective auction, and then roll unused funding into the next period.
    - Deposits may be submitted on behalf of APS customers by installers, dealers or other parties.
    - The current progress milestone requirement at 90 days shall be extended to 120 days, coinciding with the second deposit due date and 120 day milestone.

34. Staff has reviewed the AriSEIA proposal and recommends that it replace the APS
security deposit proposal. Staff is aware that this approach may not fully solve the "phantom
project" problem, so Staff recommends that the Commission order APS to evaluate the AriSEIA
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security deposit approach during 2012 and be prepared to make adjustments in the 2013 REST
 Plan, if it fails to solve the phantom project problem.

3 35. APS has, at the suggestion of the solar industry, added a requirement that all 4 applications for the residential UFI program must include submission of a complete, executed 5 contract between the customer and solar installer/developer, including the technical specifications 6 for the project.

7 36. APS proposed to update its Distributed Energy Administration Plan ("DEAP"). 8 Included will be additional requirements for leased systems to provide documentation naming the 9 actual owner of the residential DE system. APS also proposes to prorate incentives for solar water 10 heaters that are installed at less than optimal tilt and orientation, due to reduced energy savings for 11 those sub-optimal installations. Staff agrees with all of the proposed changes to the DEAP and 12 recommends Commission approval.

#### 13 Schools and Government Program

APS is proposing to narrow the criteria ranges on the Project Ranking Matrix in
order to better evaluate the economic status of schools. All other requirements remain unchanged.

16 38. APS claims that the strong market response for third-party incentives in the 2011 17 Schools and Government Program shows that a high incentive level is no longer needed for 18 economically challenged districts. APS wants to lower the current approved PBI rate for 2012 of 19 \$0.145 per kilowatt-hour ("kWh") for 15-year contracts to \$0.123/kWh and the current approved 20 PBI rate of \$0.132/kWh for 20-year contracts to \$0.112/kWh. APS claims that reduction of the 21 incentive will allow it to fund more projects during a nomination program.

39. The APS Plan allocates \$65.8 million of the lifetime commitments to the third-party
PBI projects and expands the Up-Front Incentives budget for solar daylighting installations by
\$562,500. APS would update the School and Government Solar Program Rider Rate Schedule to
reflect the changes.

40. APS has seen increased customer interest in the Schools and Government Program,
particularly from economically-challenged school districts. In the 2012 APS Plan, APS is asking
for authorization to expand its deployment of utility-owned systems by 25 MW for economically

challenged schools as well as government facilities in 2012 and 2013. This would be in addition to 1 the 2011 Schools and Government projects approved by the Commission in Decision No. 72022 2 and amended by Decision No. 71274. 3

4 41. The only change would be the elimination of the restriction that limits the APSowned option to only rural schools. APS states that this change will offer all economically-5 6 challenged schools another option to deploy solar resources. The installation, operation, and 7 maintenance of the systems would be managed by third-party installers/developers. The renewable energy from the utility-owned systems would not be counted toward meeting the RES 8 distributed energy requirements. The renewable energy would be credited toward the overall RES 9 10 requirement of APS. This expansion of utility-owned solar systems would increase the budget by 11 \$2.9 million.

42. 12 Numerous parties submitted comments on the APS Schools and Government Program. Green Choice Solar claims that the expansion of the Schools and Government Program 13 14 comes at the expense of the non-residential PBI program. The Arizona Solar Energy Industries Association insists that the third-party ownership approach is the best method and that the 15 16 percentage of utility ownership in the Schools and Government Program should be reduced to 0 17 percent. Solar City says that any expansion in the program should be equally divided between third-party owned systems and utility-owned systems. Solar City also expressed concern about 18 APS' proposed reductions of the incentives in the Schools and Government Program. The Solar 19 Alliance developed a new proposal for the REST Plan including recommended changes to the 20 21 Schools and Government Program. The Solar Alliance opposes the APS-proposed reduction in third-party incentives for schools. 22

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Staff agrees with some of the stakeholders that APS' proposed reduction of PBI 43. funding for the 2012 REST Plan could reduce competition in the renewable marketplace. Staff 24 believes that increased competition in the Schools and Government Program can help to encourage 25 a more competitive non-residential marketplace in Arizona. However, offering fixed third-party 26 incentives does not allow for robust price competition. 27

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44. 1 In response to a data request from Staff, APS provided data to Staff about the 2 demand for Schools and Government Program project funding. During the first three funding 3 cycles of 2011, APS received 44 applications requesting funding for 11.7 MW of PV installations. 4 Of the 44 applications received, APS was able to fund 16 projects by reserving \$10.89 million in 5 incentives. There were 28 school projects, totaling 8.3 MW of capacity that APS was unable to 6 fund. The government part of the Schools and Government Program received 27 applications, but 7 APS only had funding for 6 projects. These six projects will provide 1.22 MW of capacity. The 8 other 21 applications which were not funded totaled 5.01 MW of capacity.

9 45. These recent numbers convince Staff that setting a fixed PBI incentive number for 10 the Schools and Government Program is a mistake. The 28 unfunded schools projects and the 21 11 unfunded government projects are proof that there is a significant demand for Schools and 12 Government funding and that schools and government projects should compete on a least-cost 13 basis, similar to the very successful competition in the APS third-party non-residential PBI 14 The competition in the regular PBI program has been so successful that APS has program. 15 reserved enough capacity to meet its non-residential REST requirements for the next five years. Staff believes that similar project competition in the Schools and Government program can 16 17 significantly reduce the delivered cost per kWh, fund more projects and install more MW of 18 capacity per dollar of budget allocation.

19 46. Staff, therefore, recommends that third-party incentives for the Schools and 20 Government Program be capped at \$0.12 per kilowatt hour for 15-year contracts and \$0.10 per 21 kilowatt hour for 20-year contracts. Total incentives per project would be capped at 40 percent of 22 total system installed cost. APS should change its project selection criteria to select the lowest-23 cost incentive projects, similar to the existing non-residential PBI program that has worked so well 24 over the last few years.

47. In regard to the APS proposal to allow expansion of utility-owned Schools and
Government projects by 25 MW, Staff recommends that APS be allowed to expand utility-owned
projects by an additional 15 MW that would focus on economically challenged schools in all areas
of APS' service territory. Further, Staff recommends approval of an additional 10 MW of third-

party projects, but only if they are allocated by a least-cost method and subject to Staff's proposed
 incentive caps. Total incentives per third party project would be capped at 40 percent of the total
 system installed cost.

4 48. In the Schools and Government Program, APS has proposed reductions for most of
5 the solar charges and increases for a few solar charges in the APS Rate Rider Schedule SGSP.
6 This revised Rate Rider Schedule would fund projects at the most economically challenged
7 schools in all areas of the APS service territory. Staff recommends approval of these changes.

#### 8 Marketing and Advertising Costs

49. APS has typically included a marketing budget in its annual REST plan filings. For 9 the proposed 2012 REST plan budget, APS has proposed \$3 million in funding for customer 10 programs, including marketing and advertising. This funding is included on Lines 34 and 35 of 11 REVISED Exhibit 2A of the APS 2012 REST Plan. These are the line items entitled "Renewable 12 Energy Incentive Program Non-Incentive Costs" on Line 34 and "Advertising" on Line 35. In the 13 "non-incentive costs" line, a number of the programs are continuations of programs approved by 14 the Commission in 2008, 2009, and 2010. A few programs have three year contracts with third-15 party vendors. For this reason, Staff only recommends a reduction of \$300,000 in the "non-16 incentive cost" budget line. Staff recommends a \$500,000 reduction in advertising costs in the 17 18 budget.

Staff believes that with the significant growth in the renewable energy industry in 50. 19 Arizona in recent years, there are now many venues for publicizing renewable energy technologies 20 and programs, and the renewable energy industry should bear the primary responsibility for 21 marketing renewable energy in Arizona. Therefore, the need for continued funding of marketing 22 and advertising by APS' ratepayers has declined significantly. Thus, Staff is recommending 23 approval of a \$800,000 reduction in marketing and advertising costs as described herein. Staff 24 further recommends that in future REST plans, the burden of proof will be borne by APS to justify 25 the use of ratepayer funds to pay for marketing and advertising if APS proposes to use of ratepayer 26 funds for marketing and advertising in future REST plans. 27

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#### 1 Integrated Pilot Program

2 51. As ordered by the Commission in Decision No. 72060, APS has developed a Pilot Program that coordinates the integration of Smart Grid technology with DE, energy efficiency 3 ("EE"), and demand response ("DR") technologies. The Pilot would involve customers served by 4 5 the APS Pioneer Substation located near I-17 and Carefree Highway in North Phoenix. Up to 100 Pilot customers would be offered incentives for installing grid-tied PV systems with an APS-6 7 owned Smart inverter and a suite of "Smart Home" technologies. APS would like to collect \$1.5 million associated with the DE component of the offering. This would include system integration 8 costs, project management, incentives for PV systems, and the revenue requirement associated 9 10 with the APS-owned inverters through the RES adjustor.

52. A few comments addressed the funding of the Integrated Pilot Program, questioning
the use of REST funding for such an application. Staff has reviewed the APS request and believes
that some funding for the Integrated Pilot Program is appropriate and that, since APS was ordered
by the Commission to develop such a project, the funding should be approved in the 2012 REST
Plan, but at a level of \$700,000 rather than the \$1.5 million originally requested.

16 Utility-Owned Projects

APS contends that the acquisition of solar resources via utility ownership is
consistent with APS resource planning efforts. APS claims that the "cost to customers as a whole
is significantly less for utility-owned projects over the life of a renewable energy asset, as
compared with the cost of purchased power."

54. APS mentions that 97 percent of its current 227 MW of renewable generation
capacity is owned and financed by third-party developers. If the additions proposed in the 2012
plan are approved, APS would have by year-end 2015, a portfolio of 886 MW of third-party
owned and financed capacity (totaling 78 percent of total capacity) and 256 MW of APS-owned
resources (totaling 22 percent of total capacity).

26 55. APS is requesting Commission approval for cost recovery of the revenue
27 requirements associated with the renewable ownership programs (to include property taxes,
28 depreciation expenses, operating and maintenance expenses, and return on debt and equity using

Page 15

the pre-tax weighted average cost of capital approved in the Company's most recent general rate case). This recovery would be through the RES adjustor until such time as the costs may be reflected in base rates. APS mentions that this recovery method is consistent with Section 15.7 of the 2009 Settlement Agreement approved in Decision No. 71448 and with the Commission decisions related to the Community Power Project (Decision No. 71646), the AzSun Program (Decision Nos. 71459 and 71502), and the Schools and Government Program (Decision Nos. 7 2022 and 72174).

8 56. In its September 21, 2011, Supplementary Filing & Notice of Errata, APS corrects
9 the figures shown on Page 13, Lines 11-12 of the original APS application. In that correction,
10 APS states that the total renewable capacity under proposed APS Option 2 is 756 MW, of which
11 79 percent would be third-party owned and financed and 21 percent would be APS-owned.

12 57. The issue of how much renewable generation should be utility-owned and how 13 much should be owned by third parties is the most controversial item in the REST Plan. Staff 14 believes that the Commission should be aware of two important aspects of the policy issue.

First, over the past few months there has been a healthy discussion between the 15 58. Solar Alliance and APS over which approach, utility-owned or third-party owned, is the best deal 16 for ratepayers. This issue was discussed at the APS REST stakeholder meeting on September 30, 17 2011. At that meeting, it appeared that APS and the Solar Alliance agreed that the cost to non-18 participating ratepayers was about comparable, no matter who owned the system. Basically, this 19 means that neither approach is vastly superior to the other in terms of impacts on non-participating 20 customers. Assuming that is correct, Staff believes that the Commission should consider the 21 22 second aspect of the issue.

59. The second aspect is related to how the APS customers will pay for the renewable generation required by the REST Rules and the 2009 APS Settlement Agreement. Currently, renewable generating projects owned by APS, such as the AzSun Projects, have their revenue requirements funded through the APS adjustor until the generation is included in the rate base as a result of a rate case. This has the short-term effect of increasing the REST adjustor charge for a ...

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1 2 while, while the revenue requirements are being collected through the REST adjustor and then the adjustor drops in the year that the assets are moved into rate base.

60. 3 The best description of this effect is shown on Line 3 in Revised Exhibit 2A of the 4 APS September 21, 2011, Supplemental Filing and Notice of Errata. Line 3 is for Purchases and 5 Generation. In 2012, that line shows \$67.5 million, but in 2013, the amount in Line 3 drops to \$46 6 million. This shows the impact of the first phase of AzSun projects being moved into rate base. In 7 2014, Line 3 increases (temporarily) to \$104.8 million and in 2015, it drops again to \$84.3 million 8 when the next set of utility-owned renewable generators are moved into rate base.

9 61. If the Commission were to agree to the proposals to block APS from new ownership of renewable generators and, instead, require that the funding go to third-party PBIs and 10 PPAs, the resulting PBI and PPA funding commitments would remain in the REST budget for up 11 to 20 years. Each year, that commitment would be joined by a new set of 10 to 20-year PBI/PPA 12 13 commitments. Unlike utility-owned assets which would be removed from the REST adjustor 14 every few years as they are added to rate base, the PPA/PBI commitments will never be removed 15 from the adjustor, causing the REST budget to continue increasing every year.

16

#### The Expanded AzSun Program

17 62. The 2012 expansion of the AzSun Program continues the program that the 18 Commission first approved for the initial 100 MW phase of the AzSun program in 2010. APS is 19 requesting authorization to develop another 100 MW of solar generation through the AzSun 20 Program. APS expects that about 18 MW will start operating in 2013, approximately 32 MW will 21 start up in 2014, and approximately 50 MW will start up in 2015.

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63. Staff recommends Commission approval for APS to build an additional 100 MW of 23 solar generation through the AzSun Program. The recovery mechanism would be the same as that 24 for the first 100 MW phase.

25 **Funding of the Chino Valley Project** 

64. 26 APS is also requesting Commission authorization for recovery of \$5.3 million in 27 revenue requirements for the 19 MW of the Chino Valley Project, which was part of the second 50 28 MW of AzSun projects approved by the Commission in Decision No. 71502. In that Decision, the

Commission assured cost recovery for the entire 100 MW of the first phase of AzSun projects. 2 However, the Commission deferred determining the recovery mechanism for the second 50 MW to the rate case that APS filed on June 1, 2011.

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65. APS would like an earlier decision on the cost recovery mechanism for the Chino Valley Project. APS says that this earlier decision would let the construction start in January 2012 and the project would be operational by the end of 2012. APS projects that \$20 million of labor and materials will be sourced from the Chino Valley area, and the new system will provide an increase in the local tax base.

9 66. Staff recommends that the Commission approve APS' request to recover the 10 revenue requirements of the Chino Valley Project through the RES adjustor. APS had originally 11 requested \$5.3 in recovery of revenue requirements. Staff recommends that the system start-up be 12 delayed until September 30, 2012. This would reduce the revenue requirement in 2012 by \$1.7 13 million, dropping the revenue requirement for this project from \$5.3 million to \$3.6 million in 14 2012.

15 Other Key Programs

16 Schedule 6: Interconnection Study Service

17 67. In Decision No. 72022, the Commission approved Service Schedule 6. Service Schedule 6 streamlines the interconnection process for non-DE projects on the APS distribution 18 19 system. It provides APS an opportunity to assess engineering study fees and appropriate 20 application fees.

21 68. APS proposes to change Service Schedule 6 to include non-FERC projects that 22 interconnect at or above the 69 kV level. This change will accommodate developers wishing to 23 accomplish transmission interconnection under a non-FERC process. The applicant would pay the 24 actual cost for each of the three levels of non-FERC transmission studies. The applicants would 25 provide a deposit prior to the start of the studies. There would be a true-up once the studies are 26 completed.

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69. Staff recommends approval of the changes to Service Schedule 6.

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1 <u>Research, Commercialization, and Integration</u>

70. A total of \$1.8 million is allocated for Research, Commercialization, and
Integration in the APS 2012 Plan. Studies include the high penetration of distributed resources and
impacts on the distribution system, energy storage, and solar cost integration studies. Also
included are studies about combined solar, plug-in hybrid electric vehicles and solar water heating
analysis.

7 71. Staff recommends that the Commission reduce the Research, Commercialization,
8 and Integration budget by \$500,000 from \$1.8 million to \$1.3 million.

9 Customer Outreach, Marketing, and Partnership Development

10 72. APS proposed a program of customer outreach, marketing and partnership
11 development to meet the RES requirements. Included is a continuation of the Qualified Solar
12 Installer and Trained Solar Installer Program. APS wants to further expand the APS Energy Star®
13 and Solar Homes Program. APS would continue with its website, aps.com and the
14 ArizonaGoesSolar.org website. APS is proposing the discontinuation of its residential financial
15 lending incentive, due to lack of participation by lending institutions.

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73. Staff recommends approval of these changes.

17 <u>Customer/Community-Sited Utility-Owned Resources</u>

18 74. In addition to the APS request for approval of 25 MW of utility-owned schools
19 projects in 2012 and 2013, APS has requested approval for 25 MW of utility-owned customer
20 and/or community-sited community resources in 2014 and 2015. APS plans to provide more
21 details about this new community-sited effort when it files the APS 2013 RES Implementation
22 Plan.

23 75. Staff has reviewed the APS request for 25 MW of new utility-owned and operated
24 community-sited projects and recommends approval.

25 Staff's Concerns About REST Plan Formats

26 76. Staff is concerned that the REST Implementation Plans and REST Compliance
27 Reports are so diverse in format and content that it is difficult, if not impossible, for Staff and the
28 Commissioners to compare the programs and results from one utility to another. Staff believes

that, by developing a standardized template format for both the Implementation Plans and
 Compliance Reports, Staff, Commissioners, industry stakeholders and the general public will
 better be able to consider and compare the plans and performance of all Arizona utilities subject to
 the REST Rules.

5 77. In order for the public and the Commission to better understand the Utility Plans 6 and Compliance Reports, Staff believes that the utilities should work cooperatively to develop a 7 template for detailed spreadsheets that viewers can download and work with to explore alternative 8 scenarios. The detailed spreadsheets shall be in native format, including the assumptions used by 9 the utilities and the data to support the utility calculations. Care must be taken to protect 10 competitively confidential information, so that information would be blacked out in the public 11 version.

78. 12 Staff recommends that the Commission order Arizona Public Service Company to 13 work with Tucson Electric Power Company to jointly lead an effort to establish a REST Format 14 Working Group that would meet periodically with all other utility representatives to develop 15 standardized template formats for both REST Implementation Plans and REST Compliance 16 Reports. Staff recognizes that each utility is unique in a number of ways, so Staff suggests that 17 templates have two parts: mandatory information and optional/other information. The first part 18 would be detailed and identical in format. The second part would be an optional portion with a 19 flexible format that would vary by utility. The Working Group would solicit input, suggestions, 20 and detailed recommendations for stakeholders and the general public. In addition to developing 21 the templates of Implementation Plans and Compliance Reports, the Working Group would 22 develop templates for detailed spreadsheets that would be made available to the public on both the 23 utility website and the ArizonaGoesSolar.org website.

79. The Working Group would docket a report with its recommendations, for Staff
approval, no later than September 1, 2012. The effective date for usage of the templates would be
April 1, 2013, for the 2012 Compliance Reports and July 1, 2013, for the 2014 REST
Implementation Plans.

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Docket No. E-01345A-11-0264

# 1

# New Proposals by Stakeholders

80. In the past month, two organizations have submitted alternative proposals to the
three APS options. They are the Solar Alliance and Green Choice Solar.

4 81. The Solar Alliance ("SA") proposal would deploy 300 MW of renewable capacity 5 in 2012 and 2013. The SA proposal would reduce the APS-owned portion of the Schools and 6 Government Program and shift funds to third party owned projects. The proposal would also 7 reduce the small commercial UFI funding and medium and large non-residential PBI funding from 8 the APS proposal. Similarly, the SA proposal would reduce the residential DE incentives 9 proposed by APS in APS Option 3. SA contends that its proposal can be accomplished with a 10 residential surcharge cap of \$5.92.

82. The Vote Solar Initiative provided comments in support of the Solar Alliance
Proposal. Vote Solar believes the SA proposal is an improvement on APS' three options and that
the SA proposal "provides greater near term market certainty" than the APS options.

14 83. Staff has reviewed the SA proposal. Staff notes that, unlike the APS proposed three
15 options which show the five-year budget impact of the three options, the SA proposal only shows a
16 proposal for shifting MWs of capacity from utility ownership to third-party ownership.

17 84. Staff believes that the Solar Alliance has not provided a convincing argument of 18 why the Commission should select the SA proposal. It is tempting to make the comparison 19 only for 2012, but that provides Staff and the Commission with little data upon which to make a 20 decision. Most non-residential projects approved in 2012 will not reach start-up until 2013, when 21 a series of incentive payments will commence for up to 20 years. So, when considering PPAs and 22 PBIs approved in 2012, the full REST budget impact will not be seen until 2014 when APS will 23 likely see its first full year of incentive payments for the new projects.

85. The Commission should consider the phenomenon that Staff calls the "PBI
Paradox." In the past, non-residential PBI projects have looked like a "great deal" because, even
at an incentive of 10-15 cents per kWh, the projects appear to be a "bargain." If the incentive
payments are low, say \$100,000 or \$200,000 per project per year, the near-term budget impact is
minimal. However, each year, new contracts are added to the APS long-term payment

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requirements. Each new contract permanently increases the annual REST budget. Unlike Up-Front Incentives, which pay once for a lifetime of renewable kWh and pay nothing in future years, the PBI payments are a commitment for the life of the contract.

4 86. Green Choice Solar introduced four new proposals: Options A, B, C, and D.
5 Unlike the Solar Alliance proposal, which shifts MWs from APS and from non-residential PBIs to
6 third-party PPAs, Green Choice Solar's proposals shift MWs from APS ownership or third-party
7 PPAs to non-residential PBIs.

87. 8 Staff has reviewed the Green Choice Solar proposals. Staff believes that the Green 9 Choice Solar proposals have a problem similar to that of the Solar Alliance. Green Choice Solar's 10 proposals merely shift around the MWs from one ownership option to another. Similar to the 11 Solar Alliance, Green Choice Solar failed to demonstrate the multi-year budget impact of its 12 proposed proposals. Without a budget impact comparison of Green Choice Solar's proposals to 13 the APS and Solar Alliance proposals, it is impossible to determine which proposal offers the ratepayers the best long-term deal. Staff finds no convincing evidence that the proposals by the 14 15 Solar Alliance and Green Choice Solar are better for ratepayers than the APS approach.

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# Staff's Proposed Budget Changes and Recommended Options

88. The following are Staff's proposed changes to the APS REST Plan budget proposal,

18 as outlined in APS REVISED Exhibit 2A, filed on September 21, 2011:

- Line 3 (Purchases and Generation): By delaying the start-up of the Chino Valley project until September 30, 2012, the Revenue Requirements for that project should be reduced by \$1.7 million from \$5.3 million to \$3.6 million.
  - Line 22 (Schools and Government): By delaying the in-service dates for certain projects, the budget for 2012 should be reduced by \$1.7 million.
    - Line 23 (APS Customer Sited Community Solar): APS should reduce the funding in this program by \$1.5 million. This reduction reflects a mid-year deployment.
      - Line 24 (EE/RE Integrated Pilot): APS should reduce the funding in this program by \$800,000. This reduction reflects the new, lower incentive levels that will be available in 2012.
      - Line 25 (Energy Assistance for Renewable Neighborhoods): APS should reduce the funding in this program by \$300,000 to reflect lower incentive levels.

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1 2	Line 32 (Implementation): APS should reduce expenses by \$300,000 from \$5 million to \$4.7 million. This reflects the reduced need for meters in 2012 due to greater than expected installs in 2011.
3 4	Line 34 (Renewable Energy Incentive Program Non-Incentive Costs): APS should reduce funding by \$300,000 from \$2.3 million to \$2.0 million.
5 6	Line 35 (Advertising): APS should reduce its Advertising by \$500,000 from \$700,000 to \$200,000.
7 8	Line 40 (Research, Commercialization, and Integration): APS should reduce funding in this program by \$500,000 from \$1.8 million to \$1.3 million.
9	Line 45 (Residential and Commercial DE): Changes in this line will be detailed in Staff's Option A and Option B proposals.
10	89. Staff has reviewed the APS 2012 REST Plan application and the comments of
11 12	
	stakeholders and interested parties. Staff has developed for Commission consideration two
13	proposed options that are similar to APS Options 1 and 3, but have been modified in a number of
14	places. Staff's two options are named Staff Option A and Staff Option B. The budget impacts of
15	these two options are compared to APS' Options 1-3 in Table 10.
16	90. <u>Staff Option A</u> : Option A is similar to Option 3 in the APS 2012 REST Plan. Staff
17	believes that Option A allows Commissioners to permit APS to operate programs that will allow it
18	to meet the REST Rules requirements, the 2009 Settlement Agreement requirements for renewable
19	generation and the Schools and Government Program as well as meeting the spirit of the
20	Commission order in Decision No. 72022, requiring the funding for the residential solar program
21	to be maintained at \$40 million in 2012.
22	91. Staff notes that the residential PV marketplace has changed significantly since
23	December 2010. The greatly reduced cost of PV panels and the significant reduction in PV system
24	installed costs has convinced Staff that a lower PV UFI is appropriate for residential customers in
25	2012. In addition, Staff notes that since June 2011, when the \$1/watt Rapid Reservation Program
26	began to attract a significant number of customers, APS has averaged approximately 50
27	applications per week, which indicates that the residential demand for PV systems is
28	approximately 2,600 systems per year at \$1/watt.
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92. Staff recommends that a portion of the \$40 million originally planned for residential 1 systems be re-allocated to non-residential UFI incentives and PBI incentives. Staff agrees with 2 some of the solar industry's comments that the APS plan for non-residential PBI systems as 3 proposed in APS Options 1, 2, and 3 could have a damaging impact on the non-residential solar 4 5 industry in Arizona.

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93. For Staff Option A, Staff proposes to reduce the \$40 million residential set-a-side to \$30 million, including both residential and non-residential applications. This would include \$25 million for residential incentives and programs and \$5 million for non-residential programs. The Option A incentive package would include:

Table 3: DE Program Proposal for Staff's Option A Compared to APS Option 3

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Staff's Option	<u>A</u>	APS Option 3		
DE Program Element	Amount	Amount		
Residential PV Incentives	\$ 18,000,000	\$ 31,400,000		
Non-PV Technology Incentives	\$ 3,750,000	\$ 6,000,000		
Energy Star® Plus Solar Homes	\$ 3,250,000	\$ 2,600,000		
Small, Non-residential UFIs	\$ 4,400,000	\$ 2,000,000		
Medium-size, Non-residential PBIs	\$ 300,000	\$ 150,000		
Large size, Non-residential PBIs	\$ 300,000	\$ 150,000		
Total	\$ 30,000,000	\$ 42,300,000		

20 For the non-residential PBI programs, APS would commit to a lifetime commitment 94. 21 for medium-sized, non-residential projects of \$20 million in each year between 2012 and 2014. 22 APS would commit to a similar \$20 million per year of lifetime commitment in each year between

23 2012 and 2014 for large-sized, non-residential projects.

24 95. The total 2012 budget proposed by Staff in Option A is \$131.7 million. At that 25 budget level, APS calculates that it would need a surcharge of \$0.013861 per kWh with a 26 residential cap of \$5.54 per month, a small non-residential cap of \$205.94 per month, and a large 27 non-residential cap of \$617.83 per month.

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1 96. Staff Option B: Option B is similar to Option 1 in the APS 2012 REST Plan. This 2 option allows the Commission an approach that provides only sufficient funding to meet the 2012 3 REST DE requirements and some additional funding toward meeting the Schools and Government 4 Program and 2009 Settlement requirements ordered by the Commission. 5 97. In the original APS REST Plan document, APS proposed three optional DE 6 incentive budgets: \$20 million, \$29.9 million, and \$40 million. The breakdown of those proposed 7 options is shown below: 8 Table 4: APS Proposed 2012 Residential Incentive Budget Options (in \$Millions) **Option 1 Option 2 Option 3** 9 PV Incentive Budget\* 14.4 22.8 31.4 10 Non-PV Technology Incentive Budget\*\* 3.0 4.5 . 6.0 Energy Star® Plus Solar Homes 2.6 2.6 2.6 11 Total Incentive Budget by Option 20.0 29.9 40.1 12 Includes \$3.0 million in each of the three Options for \$1/watt incentives

Represents 15% of total residential incentive budget

98. On September 21, 2011, APS submitted its Supplementary Filing and Notice of Errata. In that filing, APS revised its estimate of funding needed to meet the 2012 REST residential requirement. Due to Commission Decision No. 72592, which reduced the residential incentive to \$1/watt, APS calculated that it would take \$5.2 million less in 2012 to meet the 2012 residential REST requirement than was originally projected last July.

- 99. For Staff Option B, Staff proposes to reduce the residential incentive portion to \$17
  million and add in a non-residential package of incentives of \$2 million. The total DE incentive
  package under Staff Option B would be \$19 million, a reduction of \$1 million from APS Option 1.
  The Staff Option B incentive package includes:
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	Staff's Option B		APS Option 1
3	DE Program Element	Amount	Amount
4	Residential PV Incentives	\$ 11,500,000	\$ 14,400,000 \$ 3,000,000
	Non-PV Technology Incentives Energy Star® Plus Solar Homes	\$ 2,500,000 \$ 3,000,000	\$ 3,000,000 \$ 2,600,000
5	Small, Non-residential UFIs	\$ 1,800,000	\$ 0
6	Medium-size, Non-residential PBIs	\$ 100,000	\$ 0
	Large size, Non-residential PBIs	\$ 100,000	\$ 0
7	Total	\$ 19,000,000	\$ 20,000,000
8			
9	100. For the non-residential PBI	program, APS wou	ld commit a total lifetime
10	commitment for medium-sized, non-residential	projects of \$10 milli	on in each year between 2012
11	and 2014. The \$100,000 large system PBI allo	<b>-</b> .	
12	of \$10 million in each year between 2012 and 2	-	
13	101. The total 2012 budget proposed		
14	budget level, APS calculates that it would r	-	-
15	residential cap of \$5.06 per month, a small nor	n-residential cap of \$2	187.77 per month, and a large
16	non-residential cap of \$563.32 per month.		
17	<u>A Comparison of Staff's Proposals and APS'</u>	Proposals	
18	102. In order to determine the best a	pproach for APS to f	ollow, a direct comparison of
19	the APS and Staff proposals is appropriate. The	e first comparison is	the monthly customer impact
20	in terms of surcharges and monthly caps.		
21	103. Table 6 below shows the prop	osed surcharge per k	Wh for each APS and Staff
22	option as well as the proposed caps under each	option, in comparison	n to what is currently in effect
23	for 2011.		
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Table 5: DE Program Proposal for Staff's Option B Compared to APS Option 1

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Table 6: Comparison of Surcharges and Caps											
2011 2012			2012 A	PS	2012 AP	S 2	2012 APS	2012 St	aff 20	)12 Staff	
DECT O		Approved	Option	1*	Option 2	2	Option 3	Option	A O	ption B	
		\$0.0101320	\$0.013	013	\$0.01490	)7	\$0.016037	\$0.0138	861 \$0	0.012639	
	al	\$ 4.05	\$ 5.2	1	\$ 5.96	5	6.41	\$ 5.54	L \$	5.06	
	ial	\$150.53	\$193.3	3	\$221.47	9	\$238.27	\$205.94	\$1	87.77	
Large				-			· <u></u> ·				
Commerce (3 MW+)		\$457.60	\$579.9	9	\$664.40	9	5714.81	\$617.83	\$5	63.32	
For co	mparis	son purposes, Ta	able 7 bel	ow sho	ws the proj	ected	I MWH by cu	istomer cla	ass for 20	012.	
		Table 7: Pr	ojected	MWE	I Sales by	<u>Cus</u>	stomer Clas	<u>ss for 20</u>	<u>12</u>		
				2	012 Proje	ected	l Sales	]			
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	Large	Commercial						-			
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								-			
						reia	uve contr	ibution	toRI	2SI Tundi	
by each cus	stome	er class on	a per k	wnt	basis.						
	- ب	Table 8: Con	tributio	n, Per	kWh Cor	nsun	ned by Cus	tomer C	lass		
Contributi	on							201	2 Staff	2012 Sta	
•		2011 RES Plan		f						Option \$120.7 M	
Residential		\$0.00351	\$0.004	58	\$0.00522	2	\$0.00560	\$0.0	)0486	\$0.00446	
Small Commercial		\$0.00413	\$0.005	26	\$0.00600	0	\$0.00644	\$0.0	)0559	\$0.00512	
Large Commercial		\$0.00045	\$0.000	50	\$0.00055	5	\$0.00057			\$0.00050	
						<u> </u>					
	(per kWh) Class Cap Residentia Small Commerc Large Commerc (3 MW+) *NOTE: As m For co 104. customer c The table t by each cus Contributi by Custom Class (\$/kW Residential Small Commercial Large	Commercial Large Commercial (3 MW+) *NOTE: As modified For comparis Resid Small Large 104. Tai customer class The table thus p by each custome Contribution by Customer Class (\$/kWh) Residential Small Commercial	2011ApprovedREST Charge (per kWh)\$0.0101320Class CapsResidential\$4.05Small Commercial\$150.53Large Commercial\$150.53Large Commercial\$457.60*NOTE: As modified in the APS Sector For comparison purposes, Tatable 7: PrTable 7: PrTable 7: PrImage CommercialSmall Commercial Large Commercial Large Commercial104.Table 8 below104.Table 8 belowcustomer class (projected of The table thus provides a by each customer class on Table 8: ConImage Commercial2011 RES PlanResidential\$0.00351Small Commercial\$0.00413Large\$0.00413	2011 Approved2012 A OptionREST Charge (per kWh)\$0.0101320\$0.0134Class Caps	2011 Approved2012 APS Option 1*REST Charge (per kWh)\$0.0101320\$0.013013Class CapsResidential\$4.05\$5.21Small Commercial\$150.53\$193.33Large Commercial(3 MW+)\$457.60\$579.99*NOTE: As modified in the APS September 21, 201 For comparison purposes, Table 7 below show Table 7: Projected MWHVI20Customer Class Residential20Small Commercial20Large CommercialLarge CommercialResidentialSmall CommercialLarge Contribution, PerTable 8: Contribution, PerContribution by Customer2011 RES PlanClass (\$/kWh)Plan PlanOption 1Residential\$0.00351 \$0.00458Small Commercial\$0.00413 \$0.00526	2011 Approved2012 APS Option 1*2012 AP Option 2REST Charge (per kWh) $\$0.0101320$ $\$0.013013$ $\$0.01490$ Class Caps	2011 Approved2012 APS Option 1*2012 APS Option 2REST Charge (per kWh)\$0.0101320\$0.013013\$0.014907Class Caps	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	2011 Approved2012 APS Option 1*2012 APS Option 22012 APS Option 32012 APS Option 32012 APS Option 32013 St Option 3REST Charge (per kWh) $$0.0101320$ $$0.013013$ $$0.014907$ $$0.016037$ $$0.0138$ Class Caps $$$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	

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105. The cost recovery by customer class for the approved 2011 REST Plan and 1 estimates for the APS and Staff options for the 2012 REST Plan are shown in Table 9. 2

> Table 9: Cost Recovery/Contribution by Customer Class for Approved 2011 Plan and Proposed 2012 Plans

Contribution by Customer Class (\$/kWh)	2011 RES Plan	2012 APS Option 1	2012 APS Option 2	2012 APS Option 3	2012 Staff Option A \$131.7 M	2012 Staff Option B \$120.7 M
Residential	\$46,799,257	\$61,055,346	\$69,490,699	\$74,553,978	\$64,801,453	\$59,426,66
	49%	49%	49%	49%	49%	49%
Small						
Commercial	\$48,447,436	\$61,646,352	\$70,293,906	\$74,459,603	\$65,542,641	\$59,987,32
	50%	50%	50%	50%	50%	50%
Large				· .		
Commercial	\$1,153,307	\$1,298,302	\$1,415,395	\$1,486,419	\$1,355,906	\$1,296,00
	1%	1%	1%	1%	1%	19
Total	\$96,400,000	\$124,000,000	\$141,200,000	\$151,500,000	\$131,700,000	\$120,700,00

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T.	Table 10: Comparison of APS' and St	a <u>ff'</u>	s Budge	t Pro	posals		
Line <u>No.</u>	(\$ MILLIONS)		APS	<u>S</u>	TAFF A	<u>S</u>	TAFF B
$\frac{1}{1}$	Renewable Generation						
2	Renewable Generation Contracts and O&M		_				
3	Purchases and Generation	\$	67.5	\$	65.8	\$	65.8
4	Administration		1.9		1.9		1.9
5 6	Implementation Total RG Contracts and O&M	5	<u> </u>	\$	<u> </u>	\$	<u> </u>
7	Offsets	Φ	/0./	φ	09.0	Þ	09.0
8	Estimated Green Choice Revenue Credit	\$	(0.6)	\$	(0.6)	\$	(0.6)
10	Total Renewable Generation (line 6 + line 8)	\$	70.1	\$	68.4	\$	68.4
11 12	Customer Sited Distributed Energy						<b></b>
12	Existing Contracts and Commitments						
14	DE RFP	\$	4.9	\$	4.9	\$	4.9
15	Innovative Technologies	~	0.2	-	0.2	Ŧ	0.2
16	PBIs (Existing)		7.9		7.9		7.9
17	Flagstaff CPP		0.4		0.4		0.4
18	Wholesale DE		0.2	• ••	0.2		0.2
19 20	Total Existing Contracts and Commitments	\$	13.6	\$	13.6	\$	13.6
21	New Incentives and Commitments						
22	Schools and Government Program		6.8		5.1		5.1
23	Customer Sited Community Solar		2.9		1.5		1.5
24	EE/RE Integrated Pilot		1.5		.7		.7
25	EARN	_	0.5		0.3		0.3
26	Total New Incentives and Commitments	\$	11.7	\$	7.6	\$	7.6
27 28	Total Incentives & Commitments (line 19 + line 26)	\$	25.3	\$	21.2	\$	21.2
29 30	Non-Incentive DE Costs						
31	Administration	\$	2.2	\$	2.1	\$	2.1
32	Implementation	Ψ	5.0	Ψ.	4.7	Ψ	4.7
33	Information Technology		1.8		1.8		1.8
34	Renewable Energy Non-Incentive Costs		2.3		2.0		2.0
35	Advertising		0.7		0.2		0.2
36	Total Non-Incentive DE Costs	\$	12.0	\$	10.8	\$	10.8
37	Total Customer Sited DE (line 28 + line 36)	\$	37.3	\$	32.0	\$	32.0
39 40	Research, Commercialization & Integration		1.8		1.3	F	1.3
41							
42 43	Base RES Budget (line 10 + line 38 + line 40)	\$	109.2	<u>\$</u>	101.7	\$	101.7
44	Total RES Budget	¢	140			¢	10.0
45 46	Option 1 additions Base RES plus Option 1 total	\$ ¢	14.8			\$ ¢	19.0
46	Base RES plus Option 1 total Option 2 additions	\$ \$	<b>124.0</b> 32.0			\$	120.7
47	Base RES plus Option 2 total	գ Տ	141.2				
49	Option 3 additions	\$	42.3	\$	30.0		
50	Base RES plus Option 3 total	\$	151.5	\$	131.7		
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1	Staff Recommendations							
2	106. Staff has recommended that the Commission approve the Staff proposed Option A,							
3	reflecting a REST charge of \$0.013861 per kWh, with monthly caps of \$205.94 for non-residential							
4	customers, and \$617.83 for non-residential customers with demands of 3 MW or greater. This							
5	includes a total budget of \$131,700,000.							
6	107. Staff has further recommended that the residential PV Up-Front Incentive be set at							
7	\$0.85 per watt on January 1, 2012.							
8	108. Staff has further recommended approval of the trigger mechanisms for reducing							
9	Photovoltaic up-front incentives as proposed by Staff.							
10	109. Staff has further recommended that residential customers only be allowed to collect							
11	incentives up to 40 percent of the total system installed cost.							
12	110. Staff has further recommended that the residential geothermal system incentive be							
13	set at \$0.80 per kilowatt hour.							
14	111. Staff has further recommended that the DE Program Element budgets be set at							
15	levels in Staff proposed Option A.							
16	112. Staff has further recommended that the new home building incentive be set at \$0.85							
17	per watt.							
18	113. Staff has further recommended that the non-residential Up-Front Incentive be set at							
19	\$0.85/watt.							
20	114. Staff has further recommended that the upper limit for non-residential Production							
21	Based Incentives be set at \$0.084 per kWh for 10-year contracts, \$0.082 per kWh for 15-year							
22	contracts, \$0.08 per kWh for 20-year contracts and that customers shall only be allowed to collect							
23	up to 40 percent of the total system installed cost.							
24	115. Staff has further recommended that the Rapid Reservation Program be eliminated							
25	since it is no longer needed.							
26	116. Staff has further recommended that the APS proposal to install \$600,000 in new							
27	meters be deleted from the REST Plan.							
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1 2 117. Staff has further recommended that the Commission order the adoption by APS of the AriSEIA Security Deposit Proposal in lieu of the APS Security Deposit Proposal.

3 118. Staff has further recommended that the Commission order APS to evaluate the
4 AriSEIA security deposit approach in 2012 and be prepared to make adjustments, if necessary,
5 when the Commission considers the APS 2013 REST Plan.

6 119. Staff has further recommended approval of the other DE Program enhancements as
7 discussed herein.

8 120. Staff has further recommended that third-party incentives for the Schools and 9 Government Program be capped at \$0.12 per kilowatt hour for 15-year contracts and \$0.10 per 10 kilowatt hour for 20-year contracts. Total incentives per project would be capped at 40 percent of 11 total system installed cost. APS should change its project selection criteria to select the lowest-12 cost third-party incentive projects, similar to the existing non-residential PBI.

13 121. Staff has further recommended that in regard to the APS proposal to allow
14 expansion of utility-owned Schools and Government projects, Staff recommends that APS be
15 allowed to expand utility-owned projects by an additional 15 MW that would focus on the most
16 economically challenged schools in all areas of APS' service territory.

17 122. Staff has further recommended approval of an additional 10 MW of third-party
18 schools projects, but only if they are allocated by a least-cost method and subject to Staff's
19 proposed incentive caps. Total incentives per third party project would be capped at 40 percent of
20 the total system installed cost.

21 123. Staff has further recommended approval of the funding of the Integrated Pilot
22 Program at a reduced budget level as discussed herein.

23 124. Staff has further recommended approval of Staff's proposed budget changes as
24 discussed herein.

125. Staff has further recommended Commission approval for APS to build an
additional 100 MW of utility-owned solar generation through the AzSun Program. The recovery
mechanism would be the same as that for the first 100 MW phase.

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. . .

Staff has further recommended that the Commission approve APS' request to 126. 1 recover the revenue requirements of the Chino Valley Project through the RES adjustor. Staff 2 recommends that the system start-up be delayed until September 30, 2012. Staff recommends that 3 4 the revenue requirement for this project be set at \$3.6 million in 2012. Staff has further recommended that the Commission reduce the Research. 5 127. Commercialization, and Integration budget by \$500,000 from \$1.8 million to \$1.3 million. 6 7 128. Staff has further recommended approval of the proposed changes in the Customer 8 Outreach, Marketing, and Partnership Development Programs. Staff has further recommended approval of the amended Rate Rider Schedule 9 129. SGSP. 10 130. Staff has further recommended approval of 25 MW of new utility-owned and 11 12 operated renewable systems to be installed in the 2014 and 2015 timeframe. 13 Staff has further recommended that in future REST plans the burden of proof will 131. be borne by APS to justify the use of ratepayer funds to pay for marketing and advertising if APS 14 15 proposes to use ratepayer funds for marketing in future REST plans. 16 132. Staff has further recommended approval of the formation of the REST Format 17 Working Group as discussed herein. APS and other utilities would submit the Working Group's 18 report and recommendations by September 1, 2012, for Staff approval. 19 Staff has further recommended approval of the APS Adjustment Schedule RES as 133. modified herein. 20 Staff has further recommended approval of the Renewable Energy Standard 21 134. 22 Adjustment Schedule Plan of Administration as modified herein. 135. Staff has further recommended that APS file tariffs in compliance with the Decision 23 in this case within 15 days of the effective date of the Decision. 24 CONCLUSIONS OF LAW 25 1. Arizona Public Service Company is an Arizona public service corporation within 26 the meaning of Article XV, Section 2, of the Arizona Constitution. 27 28 . . .

12.The Commission has jurisdiction over APS and over the subject matter of the2application.

3 3. The Commission, having reviewed the application and Staff's Memorandum dated
4 October 25, 2011, concludes that it is in the public interest to approve the APS 2012 Renewable
5 Energy Standard Implementation Plan and request for reset of renewable energy adjustor as
6 discussed herein.

7

### <u>ORDER</u>

8 IT IS THEREFORE ORDERED that Staff Option A is approved at a budget level of
9 \$131.7 million for the Arizona Public Service REST Implementation Plan.

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10 IT IS FURTHER ORDERED that the RES Adjustor Rate for Arizona Public Service 11 Company be reset to \$0.013861 per kWh with monthly caps of \$5.54 per month for residential 12 customers, \$205.94 per month for non-residential customers, and \$617.83 per month for non-13 residential customers with demand of 3 MW or greater.

IT IS FURTHER ORDERED that the residential PV incentive shall be set at \$0.85/watt 14 15 starting January 1, 2012, and shall remain at that level unless 45 percent of the total \$18,000,000 16 residential PV incentive is reserved on or before June 30, 2012. At that point, a trigger shall 17 automatically reduce the incentive to \$0.70/watt. The incentive shall remain at \$0.70/watt unless 18 70 percent of the incentive total is reserved on or prior to September 30, 2012. At this trigger point, the incentive will drop to \$0.50 per watt. A third trigger point shall be activated if 90 19 20 percent of the funding is reserved prior to November 30, 2012. The incentive shall drop to or remain at \$0.50 per watt in that case. All cancellation funds shall be reallocated after all other 21 22 funds are reserved and shall be reallocated at the incentive level in place when all other funds are reserved. 23

IT IS FURTHER ORDERED that Arizona Public Service Company shall post information
 on its own website, and on the ArizonaGoesSolar.org website at least every two weeks, regarding
 its progress toward reaching the triggers.

IT IS FURTHER ORDERED that residential customers shall only be allowed to collect
incentives up to 40 percent of the total system installed cost.

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IT IS FURTHER ORDERED that the residential geothermal system incentive be set at
 \$0.80 per kilowatt hour.

3 IT IS FURTHER ORDERED that the DE Program Element budgets be set at levels in Staff
4 proposed Option A.

5 IT IS FURTHER ORDERED that the new home building incentive be set at \$0.85 per
6 watt.

7 IT IS FURTHER ORDERED that the non-residential Up-Front Incentive be set at
8 \$0.85/watt.

9 IT IS FURTHER ORDERED that the upper limit for non-residential Production Based
10 Incentives be set at \$0.084 per kWh for 10 year contracts, \$0.082 per kWh for 15 year contracts,
11 \$0.08 per kWh for 20-year contracts and that customers shall only be allowed to collect up to 40
12 percent of the total system installed cost.

13 IT IS FURTHER ORDERED that no funding be allocated to the Rapid Reservation
14 Program.

15 IT IS FURTHER ORDERED that the Arizona Public Service Company proposal to install
16 \$600,000 in new meters be deleted from the REST Plan.

17 IT IS FURTHER ORDERED that Arizona Public Service Company shall adopt the
18 AriSEIA Security Deposit Proposal in lieu of the Arizona Public Service Company Security
19 Deposit Proposal.

IT IS FURTHER ORDERED that Arizona Public Service Company shall evaluate the effectiveness of the AriSEIA security deposit approach during 2012 and be prepared to discuss the necessity of adjustments to the approach when the Commission considers the Arizona Public Service Company 2013 REST Plan.

IT IS FURTHER ORDERED that the DE Program enhancements as discussed herein are
 approved.

IT IS FURTHER ORDERED that third-party incentives for the Schools and Government
Program be capped at \$0.12 per kilowatt hour for 15-year contracts and \$0.10 per kilowatt hour for
20-year contracts. Total incentives per project shall be capped at 40 percent of total system

Page 34

installed cost. Arizona Public Service Company shall change its project selection criteria to select 1 the lowest-cost third-party incentive projects, similar to the existing non-residential PBI program. 2 IT IS FURTHER ORDERED that Arizona Public Service Company be allowed to expand 3 utility-owned projects by an additional 15 MW that would focus on economically challenged 4 5 schools in all areas of Arizona Public Service Company's service territory.

IT IS FURTHER ORDERED that an additional 10 MW of third-party schools projects are 6 7 approved, but only if they are allocated by a least-cost method and subject to Staff's proposed incentive caps. Total incentives per third party project shall be capped at 40 percent of the total 8 9 system installed cost.

IT IS FURTHER ORDERED that the funding of the Integrated Pilot Program is approved 10 11 at a budget level of \$700,000 as discussed herein.

12 IT IS FURTHER ORDERED that Staff's proposed budget changes as discussed herein are 13 approved.

14 IT IS FURTHER ORDERED that Arizona Public Service Company's request to build an additional 100 MW of utility-owned solar generation through the AzSun Program is approved. 15 The recovery mechanism shall be the same as that for the first 100 MW phase. 16

17 IT IS FURTHER ORDERED that Arizona Public Service Company's request to recover the revenue requirements of the Chino Valley Project through the RES adjustor are approved with 18 the system start-up being delayed until September 30, 2012, and the revenue requirement for this 19 20 project being set at \$3.6 million in 2012.

IT IS FURTHER ORDERED that the Research, Commercialization, and Integration budget 21 22 shall be limited to \$1.3 million.

23

IT IS FURTHER ORDERED that the proposed changes in the Customer Outreach, Marketing, and Partnership Development Programs are approved. 24

25 IT IS FURTHER ORDERED that the amended Rate Rider Schedule SGSP is approved as 26 discussed herein.

IT IS FURTHER ORDERED that 25 MW of new utility-owned and operated renewable 27 28 systems is approved to be installed in the 2014 and 2015 timeframe.

	Page 35 Docket No. E-01345A-11-0264
1	IT IS FURTHER ORDERED that in future REST plans the burden of proof will be borne
2	by Arizona Public Service Company to justify the use of ratepayer funds to pay for marketing and
3	advertising if Arizona Public Service Company proposes to use ratepayer funds for marketing in
4	future REST plans.
5	IT IS FURTHER ORDERED that the formation of the REST Format Working Group as
6	discussed herein is approved. Arizona Public Service Company shall submit the Working Group's
7	report and recommendations by September 1, 2012, for Staff approval.
8	IT IS FURTHER ORDERED that the Arizona Public Service Company Adjustment
9	Schedule RES as modified herein is approved.
10	IT IS FURTHER ORDERED that the Renewable Energy Standard Adjustment Schedule
11	Plan of Administration as modified herein is approved.
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	Page 36	Docket No. E-01345A-11-0264
1	IT IS FURTHER ORI	DERED that Arizona Public Service Company file tariffs in
2	compliance with the Decision in	this case within 15 days of the effective date of the Decision.
3	IT IS FURTHER ORDE	RED that this Decision become effective immediately.
4		
5	BY THE ORDER O	F THE ARIZONA CORPORATION COMMISSION
6		
7	CHAIRMAN	COMMISSIONER
8		
9		
10	COMMISSIONER	COMMISSIONER COMMISSIONER
11		IN WITNESS WHEREOF, I, ERNEST G. JOHNSON,
12		Executive Director of the Arizona Corporation Commission, have hereunto, set my hand and caused the
13		official seal of this Commission to be affixed at the
14		Capitol, in the City of Phoenix, this day of, 2011.
15		
16 17		
18		ERNEST G. JOHNSON EXECUTIVE DIRECTOR
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20	DISSENT:	
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22	DISSENT:	
23	SMO:RTW:lhm\MAS	
24		
25		
26		
27		
28		
		Decision No.
	11 ·	

	Page 37	Docket No. E-01345A-11-0264
1	SERVICE LIST FOR: Arizona Public Service Company DOCKET NO. E-01345A-11-0264	
3	Ms. Deborah R. Scott	
4	Pinnacle West Capital Corporation Post Office Box 53999, MS 8695	
5	400 North Fifth Street Phoenix, Arizona 85072-3999	
6	Mr. Scott S. Wakefield	
7	Ridenour, Hienton & Lewis, PLLC	
8	201 North Central Avenue, Suite 3300 Phoenix, Arizona 85004-1052	
9	Phoemix, Arizona 83004-1032	
10	Mr. Court S. Rich Mr. M. Ryan Hurley	
11	Rose Law Group, PC	
12	6613 North Scottsdale Road, Suite 200 Scottsdale, Arizona 85250	
13	Mr. C. Webb Crockett	
14	Mr. Patrick J. Black Fennemore Craig, PC	
15	3003 North Central Avenue, Suite 2600 Phoenix, Arizona 85012-2913	
16		
17	Mr. Daniel W. Pozefsky Chief Counsel	
18	RUCO	
	1110 West Washington Street, Suite 220 Phoenix, Arizona 85007	
19		
20	Mr. Steven M. Olea Director, Utilities Division	
21	Arizona Corporation Commission	
22	1200 West Washington Street Phoenix, Arizona 85007	
23	Ms. Janice M. Alward	
24	Chief Counsel, Legal Division	
25	Arizona Corporation Commission 1200 West Washington Street	
26	Phoenix, Arizona 85007	
27		
28		
•		Decision No.

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