Double underline/strikeout - Changes made after August 25 Stakeholder Meeting Double underline/strikeout - Changes made after August 11 Stakeholder Meeting Single underline/strikeout - Changes made after July 22 Stationary Source Committee Meeting & July 28 Stakeholder Meeting Accepted – Changes made after July 14 Stakeholder Meeting 1 **Draft AQMD Air Quality-Related Energy Policy** 2 3 A Resolution of the Governing Board of the South Coast Air Quality Management 4 District (AQMD) approving the AQMD Air Quality-Related Energy Policy. 5 **WHEREAS**, the Governing Board has directed staff to develop an Energy Policy to 6 integrate criteria and toxic air contaminants, greenhouse gases, and energy issues to ensure clean 7 air and a healthy economy; 8 WHEREAS, the Energy Policy will complement policies, guiding principles, and 9 initiatives previously adopted by the Governing Board (i.e., Environmental Justice Guiding 10 Principles and Initiatives, Climate Change Policy); 11 WHEREAS, the total end use energy consumption in 2008 within the Basin was 2.2 12 Quadrillion BTU (or 2.2 billion million BTU), with 82 percent from fossil fuels and 18 percent 13 from electricity; 14 WHEREAS, of the total 2008 fossil fuel use, gasoline accounts for 46 percent (6.7 15 billion gallons), natural gas accounts for 26 percent (460,000 MMscf), diesel accounts for 13 16 percent (1.7 billion gallons), and other fuels (jet fuel, residual fuel, propane) account for 15 17 percent (2 billion gallons); 18 WHEREAS, the total electricity consumption within the Basin was 113,200 GWh (or 19 113,200 million kWh) in 2008, of which 30 percent was generated in Basin; 20 WHEREAS, the electricity generation capacity within the Basin currently online is an 21 estimated 16,600 MW with over 85 percent from fossil fuels and less than 2 percent from 22 renewable energy (i.e., solar, wind, biogas); 23 **WHEREAS**, the total NOx emissions contribution from all energy types in the Basin 24 during 2008 was 860 tons per day with 54 percent from diesel, 25 percent from gasoline, 9 25 percent from natural gas, 9 percent from residual fuel oil, 3 percent from other fossil fuels, and 26 0.3 percent from electricity production\*; 27 \*Based on 2007 AQMP projections. Recent California Air Resources Board rulemaking for on-road heavy duty 28 diesel vehicles and off-road equipment showed about 140 tons per day lower NOx emissions from these source categories. The 2008 emissions inventory will be updated as part of the 2012 AOMP.

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**WHEREAS**, the total direct  $CO_2$  emissions contribution from all energy types in the 2 Basin in 2008 was 135 million metric tons per year with 40 percent from gasoline, 22.5 percent 3 from natural gas, 13 percent from in-Basin electricity generation, 11.5 percent from diesel, and 4 13 percent from other fossil fuels (jet fuel, residual fuel, propane);

5

**WHEREAS**, the toxicity weighted emissions contribution from all energy types in the 6 Basin in 2008 was 92 percent from diesel (without particulate traps and will be 88 percent once 7 diesel particulate traps are in place for trucks and ships, includes fuel oil), 6 percent from 8 gasoline, 1 percent each from electricity (burning natural gas) and jet fuel, 0.2 percent from 9 natural gas and 0.1 percent from other fossil fuels;

10 WHEREAS, Executive Order S-3-05 was signed in 2005 and set statewide targets for 11 reducing greenhouse gas emissions to 1990 levels by the year 2020, and to 80 percent below 12 1990 emission levels by the year 2050;

13 WHEREAS, California passed SBX1-2 in April 2011 that will require utilities in 14 California to increase the supply of electricity produced from renewable energy sources to 33 15 percent by the year 2020;

16 **WHEREAS**, total regional annual expenditure on fossil fuels within the Basin in 2008 is 17 \$45 billion, of which petroleum (transportation fuels) accounts for 81 percent of this expenditure;

18 WHEREAS, total regional costs due to poor air quality were estimated to be \$22 billion 19 per year based upon averaged air quality data from years 2005 to 2007; and

20 WHEREAS, the health impacts from adverse air quality result in about 5,000 premature 21 deaths, and hundreds of thousands of cases of asthma and other lower respiratory illnesses, 22 hospitalizations, school absences, acute bronchitis, and lost workdays each year in this region;

23 WHEREAS, 67 percent and 75 percent NOx reductions beyond currently adopted 24 regulations (as of 2010) are needed to meet the 1997 and 2008 federal ozone standards, 25 respectively;

**WHEREAS**, this Policy is intended to be consistent with State agency energy policies

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1	and planning documents such as principles included in the CEC's Integrated Energy and		
2	Planning Report (IEPR), and California's Clean Energy Future prepared jointly by the		
3	Governor's office, CARB, CalEPA, CEC, CPUC, and California ISO; and		
4	WHEREAS, it is the Governing Board's long standing policy to be fuel and technology		
5	neutral, and that any form of energy will be allowed in meeting the specified emission limits or		
6	performance standards adopted by the Board-:		
7	WHEREAS, this policy does not authorize the AQMD to deny a permit that meets all		
8	applicable existing legal requirements at the time the permit is issued; and		
9	WHEREAS, this policy does not foreclose the Governing Board from independently		
10	determining whether and in what form to adopt any given control measure or rule, giving		
11	appropriate consideration to all relevant factors including technological and economical		
12	feasibility.		
13			
14	NOW, THEREFORE, BE IT RESOLVED, that the Governing Board directs staff to		
15	proceed with the following in future clean air program development, in a manner that promotes		
16	reliable, safe, cost effective and clean energy for all energy consumers in the Basin:		
17 18	<b>Policy 1</b> – Promote zero and near-zero emission technologies, through electrification and other		
10	ultra clean energy strategies, to meet air quality, energy security, and climate change		
20	objectives;		
20			
22	Intent Statement: Energy usage in Southern California is heavily dependent		
23	upon traditional fossil fuels and is the source of the majority of criteria, toxic, and GHGs emissions in the Basin. In order for South Coast AQMD to achieve		
23	federally mandated clean air standards for ozone, significant nitrogen oxide		
	(NOx) emission reductions will be necessary. The vast majority of NOx emissions in the Basin are a direct result of energy use. The AQMD's mission		
25 26	also includes protecting Southern California residents from exposure to air toxic		
26	emissions <u>to which d</u> Diesel fuel use in the transportation goods movement sector is the primary contributor <u>to these emissions</u> . AQMD also advocates for		
27	Is the primary contributor to these emissions. Aquirb also advocates for		
28	-3- August 19, 2011		

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1	concurrent benefits of GHG strategies that reduce criteria pollutant and air toxic emissions while recognizing that climate change can in itself exacerbate ozone			
2	and PM pollution. The direct connections between AQMD's core objectives and			
3	broader energy issues call for a clear and consistent AQMD policy that addresses these relationships in a coordinated manner. This policy will ensure that AQMD			
4	actions on air quality are considered in light of associated energy issues, while also providing decision-makers on energy policy a clear message regarding the			
5 6	impacts of their actions on air quality. Furthermore, a heavy reliance on traditional fossil fuels causes susceptibility to increasingly volatile market prices			
7	and does not keep dollars spent on energy localized. Promoting the use of clean energy through electrification and other zero and near-zero technologies,			
8	including efficiency/conservation measures, will help this region address air quality, energy security, and climate change in an integrated and holistic manner.			
9	quanty, energy security, and enhance enange in an integrated and nonsite mainter.			
10	<b>Policy 2</b> – Promote zero and near-zero emission technologies in both stationary and mobile			
11	applications to the extent feasible;			
12				
13	<b>Intent Statement:</b> Based on the 2007 AQMP/SIP, Southern California would need another 67% to 75% of NOx reductions beyond all existing regulatory			
14 15	actions to meet the 1997 and 2007 8-hour ozone standards by federal deadlines. Therefore, it is essential that many combustion related processes need to employ			
15	zero or near-zero emission technologies to meet the health-based air quality standards. In many instances, these technologies will also reduce toxic exposure			
17	and GHG emissions. It is expected that most of the needed technologies will be for mobile sources which account for 90% of total NOx emissions. However			
18	stationary sources are included in this policy, since there is a state law for a non-			
19	attainment area to implement all feasible measures. To the extent technically feasible and cost-effective measures are available for stationary source			
20	applications, they will be considered as part of the clean air strategy. Some			
21	examples of zero or near-zero technologies available for implementation over the next 10 to 20 years include battery electric vehicles, electric rail, plug-in hybrid			
22	vehicles, fuel cell and hydrogen powered vehicles, electric motors, and solar power generation.			
23				
24	<b>Policy 3</b> – Promote diversification of electricity generation technologies to provide reliable,			
25	feasible, affordable, sustainable, and zero or near-zero emission electricity supply for			
26	the Basin in partnership with local power producers;			
27				
28	-4- August 19, 2011			

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1	Accepted – Changes made after July 14 Stakeholder Meeting <b>Intent Statement:</b> AQMD recognizes that the increased utilization of zero and				
2	near-zero technologies will likely lead to increased electricity demand and thus				
2	the need for more electricity generation. AQMD intends to promote a broad portfolio of generating technologies with an emphasis on sustainable, efficient				
4	and clean production while sensitive to electricity supply and reliability issues as well as its affordability by all ratepayers.				
5	<b>Policy 4</b> – Promote demand side management programs to manage energy_demand growth. Such				
6	programs include, but are not limited to, energy conservation, energy efficiency and				
7	load-shifting measures;				
8					
9 10	<b>Intent Statement:</b> Demand side management programs help reduce the need for additional generation and related infrastructure, <u>generally resulting in cost</u>				
11	<u>savings</u> , and may help offset the increased electricity demand addressed in Policy				
12	3. Energy efficiency and conservation programs in this policy include all energy types such as natural gas for stationary sources and transportation fuels.				
12	Lowering energy consumption with such programs will also lead to co-benefits in air quality and climate change. Furthermore, load-shifting measures and energy				
13	storage can help to better utilize existing capacity reducing the need for additional peaker plants.				
15	r				
16	<b>Policy 5</b> – Promote in-Basin distributed renewable electricity generation, with emphasis on				
17	distributed renewable electricity generation, as part of sustainable community				
18	development to reduce reliance on energy imports or central power plants, and to				
19	minimize the air quality, climate and cross-media environmental_impacts of				
20	traditional power generation;				
21	Intent Statement: Renewable electricity generation provides a reliable				
22	sustainable source of energy that is zero or near-zero emission and can help				
23	mitigate economic effects from high fossil fuel costs. Power generation within the Basin provides greater transmission efficiency through better matching of				
24	localized demand with production and less transmission line losses. With this				
25	policy, AQMD is not setting an in-Basin renewable energy performance standard and not excluding out-of-Basin renewable generation to meet in-Basin demand.				
26	The policy simply promotes clean and efficient electrical production, preferably				
27	locally, to help address increasing electricity demand.				
28	-5- August 19, 2011				

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1				
2	<b>Policy 6</b> – Promote electricity storage technology to improve the supply reliability, availability,			
3	and increased generation technology choices;			
4	Intent Statement: The development of advanced electricity storage technology			
5	can minimize the temporal variability impacts associated with renewable energy production (i.e., wind or solar). It makes renewable energy sources more reliable			
6	and more available under various load demand. Increased storage can also			
7	provide power on-demand under peak load conditions helping to minimize the need for new peaker plants while utilizing off peak hours and rates for storage.			
8	Policy 7 – Require any new/repowered in-Basin fossil-fueled generation power plant to			
9	incorporate Best Available Control Technology (BACT) as required by District rules,			
10	considering energy efficiency for the application. These power plants shall also			
11	comply with any requirements adopted by the California Air Resources Board			
12	(CARB), California Energy Commission (CEC), Public Utilities Commission (PUC),			
13	California Independent System Operator (ISO), or the governing board of a publicly-			
14	owned electric utility, as well as state law under the California Environmental Quality			
15	Act (CEQA);			
16	Intent Statement: The AQMD recognizes that fossil fuel electricity generation			
17	will still be needed in the Basin to complement projected increased use of renewable energy sources. In accommodating that need, this policy ensures that			
18	all fossil-fueled plants will meet the existing BACT requirements and AQMD's			
19	BACT determination will also take into consideration generating efficiency in setting the emission limits. This policy integrates criteria pollutent BACT with			
20	setting the emission limits. This policy integrates criteria pollutant BACT with GHG BACT as required in the federal Tailoring Rule. This policy also explicitly recognizes existing ongoing efforts at the state level to assess the electricity			
21				
22	generation capacity needs for this region and CPUC's approval of electricity procurement contracts. Therefore, this policy is not intended for AQMD to			
23	develop a needs determination for new power plant installations or establish new			
24	BACT determination procedures.			
25	Policy 8 – Advocate, within the existing CEQA review process, maximum cost effective			
26	mitigation in the communities affected by emission increases resulting from the siting			
27				
28	-6- August 19, 2011			

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1	of new or repowered power plants;		
2	Intent Statement: This policy is intended to address localized impacts raised by		
3	communities affected by power generation plants. AQMD will work with project		
4	proponents in their design phase or during CEQA commenting period to maximize selection and implementation of mitigation measures, if required,		
5	within the impacted communities. This policy does not create new requirement or review process beyond the existing CEQA process.		
6			
7 8	<b>Policy 9</b> – Educate and incentivize the public and businesses to shift toward the lowest emission		
9	technologies, considering emissions of criteria pollutants, toxic air contaminants, and		
10	greenhouse gases, as energy efficiency, and the potential to create local jobs; and		
11	Intent Statement: Educating the public on individual choices for different modes		
12	of transportation such as public transit, walking, biking, energy efficient appliances, and energy conservation technologies will provide for cleaner air, less		
12	GHG emissions, and potential individual cost-savings in many cases. Consumer participation is essential in driving the market demand for zero and near-zero		
14	emitting products. Educating businesses on zero and near zero technologies will		
15	reduce emissions and may in some applications lower operating costs. Partnering with other agencies, utilities, and advocacy groups will help leverage funding and		
16	outreach efforts, while also providing the means to publicize available incentive programs. AQMD activity will include efforts to create local jobs relative to the		
17	implementation of this Policy.		
18	<b>Policy 10</b> – Incorporate energy efficiency and conservation as an emissions reductions strategy		
19	for stationary and mobile sources through AQMD's planning, rule making,		
20			
21	advocacy, and CEQA commenting activities.		
22	<b>Intent Statement:</b> Given the aforementioned close relationship between energy		
23	and air quality, incorporating energy efficiency and conservation into AQMD's		
24	emission reduction activities will recognize the benefits of efficiency and conservation while providing opportunities to reduce overall emissions.		
25			
26	<b>BE IT FURTHER RESOLVED,</b> that the Governing Board directs staff to proceed with		
27	<b>DE IT FORTHER RESOLVED,</b> that the Governing Doard uncets start to proceed with		
28	-7- August 19, 2011		

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1	the following:			
2	Action 1 -	- Advocate for, conduct, and/or support detailed technical studies to	o identify viable	
3		zero and near-zero emission technologies and associated energy d	lelivery and	
4	capacity needs to support these technologies as part of the clean air strategy for			
5		the Basin;		
6 7		<b>Discussion:</b> The purpose of these technical studies is to identify and near-zero technologies that can be deployed in the next 10 to		
8		air quality objectives. These studies will be coordinated and solic state agencies such as CEC, CARB, PUC, and Cal ISO. <u>An oppo</u>		
9		will also be provided for interested stakeholders. Intended studies		
10		analyses of air emissions, technical feasibility, cost-effectiveness energy demand and supply associated with those technologies. A	•	
11		of the energy infrastructure, delivery and capacity requirements n	_	
12		these technologies will be critical for their successful introduction		
13	examples of such technologies include battery electric and plug-in hybrid vehicles, but any other technologies in need of further analysis with similar			
14		performance would be considered as well.		
15	Action 2 -	- Conduct appropriate socioeconomic studies to identify the societa	al costs and	
16		benefits for the implementation of zero and near-zero emissions s	trategies,	
17		including but not limited to, further electrification and impacts on	business <u>es and</u>	
18		<u>jobs-impacts;</u>		
19		<b>Discussion:</b> Socioeconomic studies will identify the capital inve	stment needed	
20		and how the funds can be raised to pay for the infrastructure and o to support the technologies identify from Action #1. The studies		
21		socioeconomic impact analysis including job impacts, businesses		
22		competitiveness, small business impacts, ratepayer impacts, etc., r transitioning to zero or near-zero technologies. Input will be solic	-	
23		various stakeholders, including business groups, energy companie		
24		transportation agencies.		
25	Action 3 -	- Where feasible, develop an AQMD action plan to develop and de	ploy	
26		electrification and other zero and near-zero emissions measures for		
27		_		
28		-8-	August 19, 2011	

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1	sectors;, including identification of implementation barriers and strategies to			
2	overcome such barriers;			
3	<b>Discussion:</b> Based on the results of studies related to Actions 1 and 2, the action			
4	plan will outline roadmaps, timelines, and key milestones to ensure the timely commercialization and deployment of these technologies to meet air quality			
5 6	needs. <u>The action plan will also identify barriers to program implementation and</u> potential strategies to overcome such barriers.			
7				
8	Action 4 – Conduct studies to identify measures to reduce emissions from the transportation			
9	sector, including incentivizinge early introduction of zero and near-zero emission			
10	measures and identify potential new transportation funding mechanisms to			
10	support substantial penetration of such technologies within the transportation			
11	sector;			
12	<b>Discussion:</b> The purpose of this action is to <u>AQMD will coordinate with</u> transportation stakeholders, including SCAG, transportation commissions, transit			
14	districts, rail operators, the ports, railroads and vehicle companies to identify <u>new</u> funding mechanisms, leveraged support, public-private partnership opportunities,			
15	and any other appropriate methods to implement strategies for reducing emissions			
16	<u>from the transportation sector including through</u> incentivizing for the implementation of zero and near-zero emission technologies and their necessary			
17 18	infrastructure within the transportation sector, including goods movement. It also includes the identification of <u>other-new</u> funding mechanisms to increase public			
10 19	transit services and incentivize increased public transit usage.			
20	Action 5 – Further develop and demonstrate low emitting biogas technologies and other			
21	clean energy sources from biomass;			
22	<b>Discussion:</b> The Basin has many sources of biomass that can potentially be			
23	converted into useful energy for both transportation and stationary applications.			
24	Through various techniques, different sources of biomass can produce biomethane, biogas, electricity, alcohols, and Fischer-Tropsch fuels, to name a			
25	few. Many of the combustion processes that utilize these fuels do not currently			
26	achieve zero or near-zero emissions; therefore, further technology development is needed in some applications. This effort would ensure the use of biomass will no			
27	cause unnecessary trade-offs between GHG benefits and criteria/air toxic			
28	-9- August 19, 201			

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1	Accepted – Changes made after July 14 Stakeholder Meeting emissions.				
2					
2	Action 6 - Coordinate this Energy Policy with California state energy policy as promulgated				
	by the California Energy Commission (CEC), California Public Utilities				
4	Commission (PUC), and the California Air Resources Board (CARB), and assure				
5	that rules and regulations adopted by the Board are not in conflict with state and				
6	federal laws. Actively participate in CEC, PUC, and CARB proceedings to				
7	promote policies and regulatory actions that further clean air objectives,				
8	consistent with state and federal law;				
9		<b>Discussion:</b> CEC and PUC are charged with the responsibility to develop			
10		statewide energy policies and regulations and CARB has the primary			
11	responsibility for implementing AB32 <u>and regulating mobile sources</u> . Their collective decisions often have impacts on local air quality programs such as,				
12		energy conservation and efficiency, renewable energy policies/standard, etc. AQMD's participation in their decision-making affecting air quality would			
13		highlight the linkage between energy and air quality and help ensure air quality			
14		needs for the Basin are adequately considered.			
15	Action 7 -	Convene a stakeholder working group (including, but not limited to,			
16		representatives from the building industry, local fire departments and building			
17		departments, and utilities) to develop and recommend standardized requirements			
18		for-installations of electricity recharging, natural gas refueling, and other			
19		zero/near-zero emission refueling equipment for residential and commercial			
20					
21		building applications to facilitate greater plug-in electric vehicle (PEV), natural			
22		gas vehicle (NGV), fuel cell vehicle, and other zero or near-zero emission vehicle			
23	market penetration;				
24		<b>Discussion:</b> The transportation sector is seeing rapid development of plug in hybrids and battery electric vehicles. A standardized and streamlined recharging			
25		infrastructure will reduce the administrative burden, costs, and time needed for			
26	such installation; therefore it will help expand market penetration. The same streamlining needs exist for natural gas vehicles and natural gas fueling				
27		infrastructure. AQMD intends to facilitate such discussions among stakeholders			
28		-10- August 19, 2011			

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1		Accepted – Changes made after July 14 Stakeholder Meeting to develop acceptable specifications and address local permitting issues in a		
2		coordinated manner.		
3	Action 8 -	Advocate for electricity rate structures that incentivize of	f-peak charging for	
4		PEVs through the Statewide PEV Collaborative (comprise	ed of CEC, PUC,	
5	CARB, local air districts and utilities) while remaining sensitive to potential		nsitive to potential	
6		impacts on rates for existing customers;		
7		<b>Discussion:</b> Promoting off-peak charging will help decr	ease the need for	
8	additional peak electricity generation or adding new capacity, and reducing costs			
9 10		for vehicle charging will aid market penetration of these v also to ensure that the electricity rate structures do not per for their off-peak charging.		
11 12	Action 9 - Partner with local utilities and local government stakeholders to promote energy			
12		conservation and efficiency through local actions; and		
14		<b>Discussion:</b> This action is intended to leverage funding,	incentive, and outreach	
15 16	efforts with local governments and utilities to promote energy conservation and energy efficiency, especially for existing housing/building stocks and public buildings.			
17	Action 10 -	- Compile and track Basin-wide energy usage_and supply p	profiles in conjunction	
18		with each Air Quality Management Plan (AQMP) update	-	
19		<b>Discussion:</b> As part of AQMP revisions in the future, A		
20		information on the primary sources of energy as well as e	energy demand within the	
21		region. This will provide an understanding of the trends i and electricity generation profile for this region. The effor		
22		identify data needs and relate energy issues to air quality	_	
23				
24	BE IT FURTHER RESOLVED, that the Governing Board directs staff to annually			
25	report progress in implementing this policy to the Governing Board at a duly noticed public			
26	hearing and re	eport progress on AQMD Air-Quality Related Energy Polic	cy implementation to the	
27	appropriate Board committees semiannually.			
28		-11-	August 19, 2011	