

# C/CAG

## CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

*Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park  
Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside*

### Agenda

#### Resource Management and Climate Protection Committee (RMCP)

**Date:** Wednesday, July 15, 2015

**Time:** 2:00 to 4:00 p.m.

**Location:** 155 Bovet Rd. – Ground Floor Conference Room  
San Mateo, CA

1. Introductions
2. Public Comment
3. Approval of Minutes from April 15, 2015 meeting  
(Susan Wright – Committee Staff) Action
4. Summary of San Mateo County Public Input to 2017 Plan Bay Area  
(Pradeep Gupta – Committee Member) Information, Discussion
5. San Mateo County Energy Watch Program Updates and 2016 Strategic Planning  
(Susan Wright – Committee Staff) Information, Discussion
6. Presentation on State Energy Efficiency Collaborative Forum 2015  
(Susan Wright – Committee Staff) Information, Discussion
7. Presentation on Utility of the Future 2015 Report and Knowledge Hub  
(Betty Seto – Consultant, DNV GL) Information, Discussion
8. Update on Current Water Supply and Drought Conditions  
(BAWSCA staff) Information, Discussion
9. Committee Member Updates
10. Next Regular Meeting Date: August 19, 2015

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**RESOURCE MANAGEMENT AND CLIMATE PROTECTION TASK FORCE**  
**Minutes from the 4-15-2015 Meeting**

**In attendance:**

Michael Barber, Supervisor Pine's office  
Beth Bhatnagar, Sustainable San Mateo County  
Michelle Bilodeau, San Mateo County Health System, Environmental Health  
Adrienne Carr, BAWSCA  
Andrea Chow, County of San Mateo  
Rick DeGolia, Town of Atherton\*  
Maryann Moise Derwin, Committee Vice Chair, Portola Valley Town Council\*  
Peter Dreikmeyer, Tuolumne River Trust  
Matt Fabry, C/CAG  
Deborah Gordon, Committee Chair, Woodside Town Council\*  
Pradeep Gupta, South San Francisco City Council\*  
Deborah Hirst, Supervisor Horsley's office  
Don Horsley, San Mateo County Board of Supervisors\*  
Charles Is, San Mateo County Health System, Environmental Health  
Joe La Mariana, County of San Mateo RecycleWorks  
Nick Pegueros, Town of Portola Valley Town Manager  
Dave Pine, San Mateo County Board of Supervisors \*  
Jim Porter, County of San Mateo, Department of Public Works  
Kyle Ramey, County of San Mateo and BAWSCA – CivicSpark fellow  
Kim Springer, County of San Mateo RecycleWorks (staff)  
Gordon Tong, County of San Mateo Office of Sustainability  
Sandy Wong, C/CAG  
Susan Wright, County of San Mateo RecycleWorks (staff)

**Not in attendance:**

Bob Cormia, Foothill De Anza Community College  
Jorge Jaramillo, San Mateo County Hispanic Chamber of Commerce  
Kathy Lavezzo, PG&E  
Alex Palantzas, San Mateo County Hispanic Chamber of Commerce  
Barbara Pierce, Redwood City City Council\*  
Nicole Sandkulla, BAWSCA  
Eric Sevim, A+ Japanese Auto Repair  
\*=elected official member

**1) Introductions**

Attendees introduced themselves and their organizations.

**2) Public Comment**

There was no public comment.

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San Mateo County Transit District Office, 1250 San Carlos Ave., San Carlos, CA.

### **3) Approval of Minutes**

The minutes from the March 18, 2015 meeting were approved.

### **4) Update on Current Water Supply and Drought Conditions (Adrienne Carr, BAWSCA)**

During Adrienne Carr's presentation, she made the following points that weren't displayed on the slides:

- Slide 7 – When water agencies had the opportunity to provide comments on the State's new water cutback plans, BAWSCA requested that a category be added between "under 55 Gallons Per Customer Per Day" and "55-110 GPCPD". That category would be for a 15% cutback. This cutback would be for all use, not just residential use.
- Water agencies are asking for rate increases because customers are using less. There is a Prop 218 lawsuit that is waiting to be decided.
- The State will probably come out with rate structure suggestions.

### **5) Presentation on Bay Area Water Supply and Conservation Agency, Long Term Reliable Water Strategy (Adrienne Carr, BAWSA)**

During Adrienne Carr's presentation, she made the following points that weren't displayed on the slides:

- A recent NY Times article pointed out that we've been in a wetter period in the last 100 years, but being drier is more natural to California.  
([http://www.nytimes.com/2015/04/14/science/californias-history-of-drought-repeats.html?\\_r=0](http://www.nytimes.com/2015/04/14/science/californias-history-of-drought-repeats.html?_r=0))
- This is the greatest four-year drought in 100 years as well as in 1000 years, as determined by tree ring data.
- Slide 20 - Brackish Desalinization would take water from under the Bay through the mud. Potential partners might be Cal Water and Cargill. Alameda County extracts this way. It would be a horizontal well under the bay. They're going after the last round of Prop 84 grants with Cal Water. Prop 84 is looking for recycled water projects.
- State Water Resources Control Board has been collecting data from all agencies in California. They're charged with enforcing the Governor's order. The February water use data just came out. The baseline for comparison was Feb. 2013, but that month was wet, the reduction didn't look good. Mandatory conservation will start in June. They will be looking on both a monthly and cumulative basis. Each agency will have their own target to reach.
- BAWSCA doesn't have the power to require agencies to participate in Lawn Be Gone. They're trying to encourage agencies to participate. The requirement of starting from a green lawn may be relaxed. There are some agencies that will approve rebates even if someone has let their lawn die. Foster City gives rebates for artificial turf. It's up to individual agencies; they're the ones that need to do the inspection. Menlo Park's Conserve-a-Scape program helps customers implement Lawn Be Gone.
- Data is kept on rebates for toilets, washing machines, and Lawn Be Gone. They don't have data on the number of showerheads given out.

#### Comments:

Dave Pine commented that he hadn't heard about desalinization under the bay before. He cautioned that some may be resistant to this type of project because of their interest in protecting the bay.

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There will need to be public input. He suggested starting a dialogue with the Coastal Conservancy and BCDC.

Beth Bhatnagar commented that Sustainable San Mateo County's key indicator this year is water. They're hoping to spread knowledge and be a part of the messaging.

Deborah Gordon commented that she's been hearing about water as the battery for water/energy storage and energy generation.

Adrienne Carr's responses:

- It would be a six-year timeframe from when a desalinization project would start. Right now, they're working on feasibility. Step 1 is to drill well to test that and deal with regulatory issues.
- Three wastewater treatment plants could use the higher salinity output as a benefit. Sometimes their outflow is too dilute; they could use the salt to help them. BAWSCA has had some initial discussions with the state board about this.
- They're not considering an open bay desalinization project, just a brackish groundwater desal project. Bay Area Regional desal project may be coming back, too, up by Vallejo. It stalled for a few years. They have now identified a site – Contra Costa water district. Zone 7 water agency is interested in another source of water.

#### **6) Presentation on Changes to the Existing San Mateo County Flood Control District (Jim Porter, County of San Mateo)**

Background:

- Current countywide flood control district has the same borders as the county. It only has three sub zones that generate revenue for flood control.
  - Colma Creek (Daly City, San Bruno, Colma, part of Pacifica, South San Francisco – the channel when you drive over 101) – only sub zone that generates any meaningful revenue
  - San Bruno sub zone (in grassy area west of SFO, earthen channel) - receives \$200,000 a year, barely capable of handling maintenance
  - San Francisquito Creek (border of San Mateo County and Santa Clara County) - This is part of a JPA, Santa Clara Valley Water District (SCVWD), Menlo Park, East Palo Alto, Palo Alto – formed after a 1989 storm.
  - Rest of county – no funding for flood control.
- 25% of the state's economic damage from sea level rise will occur in San Mateo County because we have built out along the bay. Sea level rise affects the ability to pass stormwater into the bay. The Bay Area Council is about to release a major study about what will happen with a 150-year storm. San Mateo County is highlighted as the most vulnerable county. The report has a lot of detail on mechanisms to deal with flooding.
- Current issues:
  - Trailer park flooding in Belmont and Redwood City in unincorporated areas.
  - Belmont Creek drains unincorporated Belmont and San Carlos and floods local businesses. Novartis has put in their own money to find a solution. They've identified a \$17 million project. It's tough to find funding for that.
  - Bayfront Canal (Redwood City by Cargill property) is undersized. County and Redwood City can't convey water into bay.
  - Coastside – as sea levels increase, storms become more intense and there's more

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bluff erosion. Highway 101 is getting closer to the ocean. In Half Moon Bay there's bluff erosion because it's near an old landfill. They will need to protect the landfill or excavate garbage and move.

- A need has been identified for more regional coordination to provide funding.
- San Mateo County is unique in coming together through C/CAG to deal with big-ticket infrastructure projects.
- C/CAG isn't currently dealing with sea level rise or flood control.
- Supervisor Pine has hosted two events on sea level rise.
- County got a grant from the Coastal Conservancy to do a vulnerability study of the county, including storm events and sea level rise. It will look at impacted infrastructure. It will put a dollar value on infrastructure and prioritize how it should be protected. That will provide a list of projects to work on. Consultant selection is happening now. It is being coordinated by the County Office of Sustainability.

#### Ground water:

- Prop 1 water bond focuses on Central Valley and overdrafting. High extractors need to come up with sustainable groundwater management plans.
- There's a groundwater management plan for the Westside Basin.
- Many little groundwater basins are small so they're not being managed.
- There's talk of beginning extractions from the San Mateo Plain on the Burlingame/Millbrae border. It's not currently being managed.
- East Palo Alto is going to pilot a well.
- There may be more pumping if the drought continues. The County thinks there will be a need to have an agency to manage the pumping.
- The State is looking to counties to manage the water.

#### Coordinating agency:

- The County thinks there's a need for an agency to take a holistic look at flood control, ground water, and sea level rise.
- Proposal: Expand county flood control district to handle unmet needs.
- C/CAG handles stormwater.
- C/CAG can be leveraged.

#### 3 options:

1. New JPA – sole charge of flood control, sea level rise, clean water, and groundwater
2. C/CAG – staff up, and get member agencies to kick in to pay for staffing
3. Expand county flood control district – County Manager offered to fund staff for expanded flood control agencies for several years until it could fund itself. It would be structured in a way that it could take off outside County's umbrella.

#### Discussion on the options:

Pine: This effort needs to find its own funding structure. We could revisit governance later. We want to get going right away, not have to go around to all the cities to cobble together funding. With the County providing funding, the effort could get going right away. We could lose 18 months or more taking another approach.

Porter: The County is structured and staffed right now. We have personnel and contract administration. We're set up to take this on.

Pine: Funding could be contentious – who contributes what.

Maryann – Have C/CAG take groundwater.

Porter: County Environmental Health has info on well data. We can leverage their expertise. San Bruno has an existing groundwater management plan. We have talked to the City of San Bruno. The Westside basin is being managed fine. We're looking to fill in the gaps – the aquifers on coastside. We wanted to preview this idea with the RMCP Committee; the next step is to talk to the C/CAG Board (not on the agenda yet). Next step is to get feedback from all City Councils. Then make decisions on formation.

DeGolia: It's important to define the concept and spread it around first so people know what you're talking about. Lots of people came out for the sea level rise meetings. Adding other topics is a big deal. You need to manage it. Get ideas down. Budget dollars should be put in a summary so people can look at it and talk about it.

Porter: We're in the 12<sup>th</sup> revision of that document. We want something ready for public view.

Pine: City managers have been very involved. There has been enthusiastic backing by city staff so far. We wanted to put together something for elected officials to react to. We have been keeping Sandy Wong in the loop.

Wong: These big things need a lot more discussions countywide to decide what the structure and scope should be. C/CAG has an existing stormwater program focusing on removal of pollutants. Since it's a mature program, maybe it shouldn't be included.

Gupta: What is the ballpark financing amount?

Porter: There would be 5 to 7 new staff, plus consultants and materials/supplies. The estimated need would be \$1 to \$2 million a year to start the agency. The actual projects that would be identified would be multi-million projects. We will need assessment districts. Belmont Creek would benefit from an assessment district. Those that receive benefit should have some stake in the improvements. If it's countywide, it would be less of an impact on the residents. Discussion of Prop 218 to include stormwater in language. Stormwater would be considered as a utility. 2/3 of legislature, 51% of population would have to pass it. Funding would be for several years, but not forever. Several revenue sources in the county.

Gordon: So that's 5 years?

Porter: We want to get this to the Board of Supervisors as soon as possible. The full board hasn't talked about this. Budgets are 2 years. No agency is going to step up and do the work for sea level rise and flooding. We're trying to fill that gap. Sea level rise is like getting run over by a turtle. Groundwater got added in by the Prop 1 program. We're putting in everything that isn't potable water.

Pine: We need feedback. We need to act – Prop 1 money, regional money. We need to be in a position to compete for funding. We will seek countywide funding.

Porter: City managers that are in discussion as part of a sub-committee: Nick Pegrueros/Portola Valley, Pat Martell/Daly City, Larry Patterson/San Mateo, Lori Tinfow/Pacifica. This has been discussed at City Managers meeting. The next one is coming Friday.

Pine: Should this go to C/CAG on May 14?

Gupta: The need is urgent, but we need to look at the process. There are good reasons to do what Supervisor Pine has suggested. The C/CAG discussion should provide clarity.

Gordon: The need is not in question. We need to move forward on how to best address it. This forum isn't the place to decide a solution. C/CAG has moved quickly on other issues when needed.

**7) Presentation on Future Planning for Green Infrastructure to Support Stormwater Management (Matt Fabry, C/CAG)**

Matt Fabry completed his presentation.

- Gordon: One cost can cover many things. Matt went to Sacramento with us last week, and received a very positive response.
- Lawn Be Gone is in harmony with this. When we put in native, drought tolerant species, we can also keep water on site.
- Costs aren't going down, so we're still looking at a large shortfall. Hoping Prop 218 amendment will pass; won't know until 2016. Looking to integrate to reduce costs.
- There's a funding initiative steering committee of Public Works directors plus Larry Patterson. C/CAG got authority to sponsor a parcel tax fee. We need to talk about going forward from here.

**8) Presentation on San Mateo County Health System, Division of Environmental Health, Non-Potable Water Supply Guidelines for Local Building Departments (Michelle Bilodeau, SMC Health System)**

Charles Is runs the groundwater program at Environmental Health. Michelle works with water purveyors re: safe drinking water. They address the restrictions or requirements if someone wants to do on-site water recycling. With the drought, there's a lot of interest in what people can do. They've created a handout for local building officials. Everyone needs to give potential applicants the same story. The 2<sup>nd</sup> page is for residents. Environmental Health wants to be part of the solution, but needs to minimize public health problems.

- The topic of foundation drainage as a source gets a lot of calls.
- Burlingame Senior Living Complex wanted to reuse water onsite.
- SF has a nonpotable water program. SFPUC is building theirs. They're treating up to 5000 gallons per day of black water onsite. They have a series of tidal components to treat the wastewater.
- May want to consider process water, bay water.
- Don't want to have ongoing permitting with users. Having an ordinance in place gives enforcement action if necessary. Allows stop order if necessary.
- There are concerns about operation and maintenance of greywater systems. The installer may know how to keep them safe, but the future owner may not.
- The dirtier the water, the higher the level of dollars to maintain.

- Commercial requirements are more lenient than residential. Environmental Health would have an ongoing permit with them, including cross connection control program. EH has authority as health officer and ability to enter any facility in the county. High hazard building – hospitals are also a concern. Wouldn't need ordinance. Hopefully the facility would have adequate personnel.
- EH is trying to get the word out and is meeting with building officials. Trying to work with people, not just tell them what they can't do. We're working together to serve the public. Want to tell the public the same thing.
- AB1463 – SWRCB would have to establish onsite water recycling program.

Gupta: What is the answer if people want to reuse water onsite?

Michelle: People should contact us directly. Building departments can hand out these materials. Just send them to us. Cal Water wants to make sure public drinking water is maintained.

Maryann: High water users are facing 35% mandatory reductions. Conservation isn't going to be enough. Watersprout is going to give a proposal. The only way we're going to get reductions is mandate greywater use in ordinance for new construction.

Michelle: We could set up a pilot program. We don't want to move too quickly.

Carr: Direct potable reuse at the community scale is being discussed. There could be drinking water coming out of recycled water plants. This became possible 6 months ago. They're waiting on Dept. of Public Health at the State level.

9) **Committee Member Updates**

None

10) **Next Regular Meeting Date: May 20, 2015**

**Attachments:**

None.



# C/CAG AGENDA REPORT

**Date:** July 15, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Pradeep Gupta, RMCP Committee Member  
**Subject:** Summary of San Mateo County Public Input to 2017 Plan Bay Area  
(For further information contact Kim Springer at 650-599-1412)

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## **RECOMMENDATION**

Receive a summary of San Mateo County public input to the 2017 update of Plan Bay Area.

## **FISCAL IMPACT**

None

## **BACKGROUND/DISCUSSION**

Plan Bay Area is an initiative that developed as a result of Senate Bill 375, the California Sustainable Communities and Climate Act of 2008. SB 375 requires each of the state's 18 metro areas complete a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan. The SCS must integrate transportation, land use and housing, ultimately to reduce greenhouse gas (GHG) emissions from cars and light-duty trucks.

Plan Bay Area is being coordinated by the Metropolitan Transportation Commission (MTC), which is the regional transportation agency and metropolitan planning organization for the Bay Area, and the Association of Bay Area Government (ABAG), which is the regional planning agency and council of governments for the 101 cities and towns in the Bay Area, with input from multiple stakeholders and the community.

Plan Bay Area will identify priority development areas sufficient to house the growing diverse population of the Bay Area for the next 25 years, reduce GHG emissions as specified by the California Air Resource Board, and meet the requirements of Regional Transportation Plan.

In the Spring of 2015, Plan Bay Area held nine open houses (including one at the Event Center in San Mateo), provided a virtual open house forum, and received additional input via email and written letters.

Committee member Pradeep Gupta, who sits on the Executive Board of ABAG, will present a summary of the public inputs on the 2017 update of the Plan Bay Area heard by ABAG/MTC at the San Mateo County open house held on May 6, 2015 in San Mateo.

## **ATTACHMENTS**

None

# C/CAG AGENDA REPORT

**Date:** July 15, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Susan Wright, County staff to RMCP Committee  
**Subject:** San Mateo County Energy Watch Program Updates and 2016 Strategic Planning  
(For further information contact Susan Wright at 650-599-1403)

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## **RECOMMENDATION**

Receive updates on the San Mateo County Energy Watch (SMCEW) program and 2016 Strategic Planning.

## **FISCAL IMPACT**

SMCEW program staff costs are paid for by funding under the C/CAG – PG&E Local Government Partnership (LGP) agreement. Additional matching funds, specifically for transportation-related Climate Action Planning efforts, come from C/CAG Congestion Relief Funds.

## **BACKGROUND/DISCUSSION**

**Progress toward goals.** The SMCEW program is on track to meeting its energy saving goals. As of April 2015, the program has reached 26% of the Kilowatt hour (kWh) savings goal and 23% of the peak Kilowatt (kW) energy goal. We are working in line with the Therms goal. SMCEW is working closely with PG&E and the Ecology Action engineering team to assist several cities in completing extensive HVAC projects for their facilities. So far, the cities of South San Francisco, Foster City, and Brisbane have completed projects, with several other cities on track to complete their projects by the end of the year.

**Outreach to small businesses.** SMCEW has been coordinating with city sustainability and economic development staff, chambers of commerce, and local volunteers to promote the SMCEW turnkey lighting program through the “San Mateo County Energy Watch Challenge.” At the RMCP meeting, we will share the final results of the Challenge, and our plans for “Phase 2” of outreach to small businesses.

**Zero Energy Workshops.** On May 7 and 14, SMCEW hosted two webinars about zero energy:

one for building professionals, the other for real estate professionals and homeowners. On May 28 and 29, SMCEW hosted two workshops: one for local government staff, the other about residential strategies for building professionals, real estate professionals, and homeowners. Recordings of the webinars and all the workshop materials can be found at [http://smcenergywatch.com/zero\\_energy\\_events](http://smcenergywatch.com/zero_energy_events).

At the RMCP Committee meeting, we will share highlights of the events and talk about potential next steps to promote the concept of zero energy building in the County.

**Online tracking of climate action progress.** At the December 2014 meeting of the Regionally Integrated Climate Action Planning Suite (RICAPS) Multi-City Working Group, several city sustainability staff shared their interest in having a public-facing website to highlight progress on climate action goals. Recently, SMCEW hosted the first meeting of a subcommittee formed to identify potential options. At the RMCP Committee meeting, we will share several tools the RICAPS subcommittee is investigating that could potentially be used together to track CAP progress: the County's Open Data Portal (see <https://data.smcgov.org/>), Socrata (see <https://performance.smcgov.org/shared-vision>) and ICLEI's ClearPath tool (see <http://www.icleiusa.org/tools/clearpath>).

**RICAPS needs assessment survey.** SMCEW created a needs assessment survey to learn what climate action initiatives jurisdictions in the County are interested in working on, collaborating with others on, and receiving support for. The results were discussed at the June 30 in-person RICAPS meeting. The survey covers energy, water, solid waste, and transportation initiatives. It should be noted that SMC Energy Watch doesn't plan to provide support for each initiative mentioned in the survey. In many cases, the responses will be used to connect jurisdictions with existing initiatives and/or other agencies interested in collaborating. At the RMCP Committee meeting, we will share preliminary insights we've gained from the results.

## **ATTACHMENT**

None.

# C/CAG AGENDA REPORT

**Date:** July 15, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Kim Springer and Susan Wright, County Staff to C/CAG  
**Subject:** Presentation on State Energy Efficiency Collaborative (SEEC) Meeting  
(For further information contact Kim Springer at 650-599-1412 or Susan Wright at 650-599-1403.)

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## **RECOMMENDATION**

Receive an informational presentation on the Statewide Energy Efficiency Collaborative (SEEC) Meeting.

## **FISCAL IMPACT**

None.

## **BACKGROUND/DISCUSSION**

The Statewide Energy Efficiency Collaborative (SEEC) is a collaboration between three statewide non-profit organizations (Local Government Commission, Institute for Local Government, and ICLEI – Local Governments for Sustainability, and California’s four Investor Owned Utilities (Pacific Gas and Electric Company, San Diego Gas & Electric, Southern California Edison, and Southern California Gas Company). SEEC provides education and tools for climate action planning, venues for peer-to-peer networking, technical assistance and recognition for local agencies that reduce greenhouse gas emissions and energy use. The collaborative effort is designed to build upon the unique resources, expertise and local agency relationships of each non-profit organization, as well as those of the four investor owned utilities.

SEEC hosted the Sixth Annual Statewide Energy Efficiency Best Practices Forum on June 17-18, 2015 in Sacramento, CA. The first day consisted of a Statewide Local Government Partner Meeting for all utility partners. This meeting provided an opportunity to come together with local government partner peers from across the state and staff from California’s four Investor Owned Utilities to network and learn with one another.

The second day featured updates from key state agencies and highlighted innovative local energy and climate change programs on topics such as zero net energy, climate action plan tracking and implementation, the water energy nexus, community engagement, financing, and working with our state partners.

At the RMCP meeting, staff will share key takeaways from the SEEC Forum. The agenda for the 2015 SEEC Forum is attached to this report for your review.

## **ATTACHMENTS**

2015 SEEC Forum Agenda

## AGENDA

### WEDNESDAY, JUNE 17TH

- 1:30 PM      **Registration and Coffee**
- 2:00 PM      **Welcome & Participant Introductions**
- Joseph Oldham, Statewide Energy Efficiency Best Practices Coordinator, Local Government Commission (LGC)
  - Leif Christiansen, Manager, Government and Community Partnerships, Pacific Gas and Electric Company
- 2:10 PM      **Regulatory Update**
- Don Arambula, *Energy Efficiency Program Manager, Southern California Edison*
  - Carl Zichella, *Director of Western Transmission, Natural Resources Defense Council*
  - Frank Spasaro, *Manager of Partnerships and Financing, Southern California Gas Company*
  - Jeremy Battis, *Local Government Programs and Regional Initiatives Statewide Lead Analyst, California Public Utilities Commission*
- 3:15 PM      **Break**
- 3:25 PM      **TEED Talks**
- **Moderator:** Karen Zelmar, *Energy Efficiency Programs Director, Pacific Gas and Electric Company*
  - Courtney Kalashian, *Executive Director, San Joaquin Valley Clean Energy Organization*
  - Susan Wright, *Resource Conservation Specialist, County of San Mateo*
  - Tyler Masters, *Staff Analyst, Western Riverside Council of Governments*
- 4:00 PM      **AB 758 Action Plan Presentation and Discussion**
- Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, (LGC)*
- 4:50 PM      **Next Steps and Closing Remarks**
- Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, (LGC)*
  - Michelle Costello, *Commercial and Industry Energy Efficiency Manager, San Diego Gas and Electric*
- 5:00 PM      **Adjourn**
- 5:00 - 6:30 PM      **Energy Champions Networking Reception in Morgan’s Room**



6th Annual  
**Statewide Energy Efficiency Forum**  
 June 17th – 18th • Sheraton Grand, Sacramento, CA



## FORUM PROGRAM DRAFT

### THURSDAY, JUNE 18TH

7:30 AM Registration and Continental Breakfast

8:30 AM Welcome

- Kate Meis, *Executive Director, Local Government Commission (LGC)*
- Supervisor Phil Serna, *County of Sacramento and CARB Board Member*
- Janice Berman, *Senior Director of Energy Efficiency Strategy, Pacific Gas and Electric Company*

9:10 AM **Morning Plenary – Working Together to Meet New Goals: A Conversation with State Partners**

This plenary session will feature a facilitated discussion with key representatives from the California Public Utilities Commission, the California Energy Commission, and the Governor’s Office of Planning and Research. The purpose of this plenary is to provide local governments from across the state an opportunity to hear from key state agencies about the state’s energy and climate change policies and the important role local governments play in helping the state meet its new and ambitious climate and energy goals.

CM | 1.00

- **Moderator** – Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, LGC*
- Commissioner Carla Peterman, *California Public Utilities Commission*
- Commissioner Andrew McAllister, *California Energy Commission*
- Director Ken Alex, *Governor’s Office of Planning and Research*

10:00 AM Q&A

10:25 AM **Lightning Round: Overview of Morning Breakout Session Topics**

10:35 AM **Networking Coffee Break**

11:05 AM **Concurrent Morning Breakout Sessions**

**Breakout Session #1: Your Roadmap to Success: Climate and Energy Strategic Planning at the Local Level**

With new policies and opportunities emerging around every corner, local government service and program implementers can often overlook the value of climate and energy strategic planning. How can local governments keep up with the ever-shifting political environment and changes in funding while developing a long-term plan that remains purposeful? At this session, we will get participants started in the strategic planning process then provide the tools and resources to support further implementation and execution.

CM | 1.00

- **Moderator** – Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, LGC*
- Liz Yager, *Energy and Sustainability Program Manager, County of Sonoma*





### **Breakout Session #2: A Clear Path to Climate Action Planning: No-Cost Tools for Local Governments**

Learn about the latest trends in Climate Action Planning and the tools and resources available to support local governments throughout the process. This session will dive into the challenges that local governments and regional agencies face, and the tools and best practices for overcoming these obstacles. Participants will learn about SEEC ClearPath California and additional no-cost tools and resources available to inform and track energy and climate action plans.

CM | 1.00

- **Moderator** – Angie Fyfe, *Director of Resource Efficiency & Renewable Energy Program, ICLEI – Local Governments for Sustainability USA*
- Geoffrey Danker, *Senior Policy and Planning Advisor, Southern California Gas Company*
- J.R. Killigrew, *National Membership Coordinator & Senior Climate Program Officer, ICLEI – Local Governments for Sustainability USA*
- Paul Ahrns, *Project Manager, Sierra Business Council*
- Tiffany Wise-West, *Senior Environmental Engineer & Project Manager, EcoShift Consulting*

### **Breakout Session #3: Reaching the “Hard-to-Reach”: Engaging Underserved Communities**

Working in California’s most vulnerable and underserved communities is a priority for the state and for local governments. How can we ensure that our programs are bringing real benefits to these communities when reaching them in the first place has proven challenging? This session will present on case studies of successful programs, and share lessons learned and best practices. Participants will walk away with a stronger understanding of currently available programs and resources to implement and coordinate programs to engage underserved communities.

CM | 1.00

- **Moderator** – Dave Christensen, *Senior Program Manager, Government and Community Partnerships, Pacific Gas and Electric Company*
- Supervisor Pete Vander Poel, *County of Tulare*
- Robert Castaneda, *CEO & Principal, Castaneda Communications*
- Samantha Doderio, *Program Administrator, San Joaquin Valley Clean Energy Organization*

### **Breakout Session #4: New Strategies for Old Buildings: Working in Existing Municipal Buildings**

How can local governments achieve the goals of the AB 758 Plan and where do they start? Learn how to sell your project to the decision makers – with and without using hard metrics – and how to finance it. At this session, participants will be equipped with best practices and resources to successfully implement energy efficiency projects in existing municipal buildings and how to measure the results.

CM | 1.00

- **Moderator** – Laurel Rothschild, *Assistant Director, The Energy Coalition*
- Charles Hebertson, *Director of Public Works & City Engineer, City of Culver*
- Courtney Kalashian, *Executive Director, San Joaquin Valley Clean Energy Organization*
- Howard Brewen, *Superintendent, City of San Luis Obispo*

12:20 PM

### **Networking Lunch and Table Discussions**

**Take the Forum further:** Gather with colleagues for semi-structured topical conversations at hosted discussion tables during the networking lunch. Before lunch, check out the display near the registration table to learn more, to sign up for one of the existing table topics, or to propose your own topic.



1:20 PM

## Lightning Round: Overview of Afternoon Working Session Topics

1:30 PM

### Concurrent Afternoon Working Sessions

#### Working Session #1: A Race to the Bottom: Advancing Zero Net Energy

Zero Net Energy (ZNE) buildings have the unprecedented potential to create sustainable and healthy living, learning, and work environments in California – and they're being created both at new and existing properties. During this hands-on session, participants will learn about market trends and California's goals, how to carry ZNE strategic planning into action, and creative financing and planning strategies through interactive activities.

CM | 2.50

- **Moderator** – Ralph DiNola, *Executive Director, New Buildings Institute*
- Cathy Fogel, *Senior Analyst, California Public Utilities Commission*
- Kevin Bates, *President, SHARP Development Company*
- Roy Haperman, *Energy Manger, County of Santa Barbara*

#### Working Session #2: Making Your Messages Resonate: Communicating on Climate and Energy

Talking about climate change and energy can be a difficult task that results in dissonance and disagreement. How can we craft our message to resonate with our audience most effectively? This active session will guide participants through the key elements of communicating on climate and energy, and participants will learn how to improve their messaging through practice.

CM | 2.50

- **Moderator** – Dan Barry, *Communities Director, EcoAmerica*
- Catherine Hurley, *Sustainability Manager, City of Evanston*
- Stephanie Gray, *Marketing Manager, West Region, Conservation Services Group*

#### Working Session #3: Do It, Track It, Share It: Tools for Implementation, Monitoring, and Reporting

Once you develop your local climate action plan, you're ready to implement the policies and measures outlined in your plan – but where to start? This working session will provide participants with a walkthrough of the available tools for implementation, as well as for monitoring and reporting. Participants will learn about a suite of tools, available to local governments at no cost, as well as about different tools that have been developed and deployed by local and regional entities across California.

CM | 2.50

- **Moderator** – Karalee Browne, *Program Manager, Institute for Local Government*
- Christine O'Rourke, *Sustainability Coordinator, Marin Climate & Energy Partnership*
- Cory Downs, *Conservation Specialist, City of Chula Vista*
- J.R. Killigrew, *National Membership Coordinator & Senior Climate Program Officer, ICLEI – Local Governments for Sustainability USA*

4:00 PM

### Afternoon Plenary - Rethinking Energy: Innovations to Lead Us into the Future

This plenary session will feature a facilitated discussion on innovative approaches, ideas, and initiatives that are transforming how we think about energy efficiency and climate programs and policies.

- **Moderator** – Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, LGC*
- Bob Raymer, *Technical Director, California Building Industry Association*
- Dian Grueneich, *Senior Research Scholar, Stanford University*
- Shannon Casey, *Communications Director, Cleantech San Diego*

5:00 PM

### Adjourn



# C/CAG AGENDA REPORT

**Date:** July 15, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Kim Springer – Committee Staff  
**Subject:** Presentation on Utility of the Future 2015 Report and Knowledge Hub  
  
(For further information contact Kim Springer at 650-599-1412)

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## **RECOMMENDATION**

Receive a presentation on Utility of the Future 2015 Report and Knowledge Hub by DNV GL, Consultant to C/CAG.

## **FISCAL IMPACT**

None

## **BACKGROUND/DISCUSSION**

The RMCP Committee has received a number of presentations and discussed issues related to renewable energy, distributed generation, the potential of energy storage, and the challenges integration of these technologies has with regard to the power grid on which we depend. In addition, the Committee has received presentations on the evaluation of Community Choice Energy (CCE) in San Mateo County, which is underway. These discussions locally mirror some those both at the state and national level on the future of the electric utility model.

On October 8, 2013, the CPUC held an educational discussion on the impacts of new technologies on the traditional electric utility model:

En Banc: The Business Model for the Electric Utility of the Future:

[http://www.cpuc.ca.gov/PUC/Oct\\_8\\_2013\\_En\\_Banc\\_The\\_Business\\_Model\\_for\\_the\\_Electric\\_Utility\\_of\\_the\\_Future.htm](http://www.cpuc.ca.gov/PUC/Oct_8_2013_En_Banc_The_Business_Model_for_the_Electric_Utility_of_the_Future.htm)

PG&E is also developing approaches to being a utility of the future. At a recent shareholders meeting, “PG&E President Chris Johns spoke about a number of initiatives under way that lay the groundwork for customers' utility of the future. He said PG&E is building a robust, modern electric grid that can integrate all of the energy innovation that customers want to pursue, such as rooftop solar, electric vehicles and smart appliances.”

One of C/CAG’s current consultants, DNV GL, has been working to understand the challenges facing electric utilities and has recently developed a report called: Utility of the Future 2015 Report (attached), developed a “knowledge hub”, and recently held a Utility of the Future Leadership Forum in Washington, DC on June 2, 2015.

Staff from DNV GL will present the report and findings to the RMCP Committee for information and discussion.

**ATTACHMENTS**

Utility of the Future 2015 Report



# UTILITY OF THE FUTURE 2015 REPORT

Putting our finger on the pulse of the energy world



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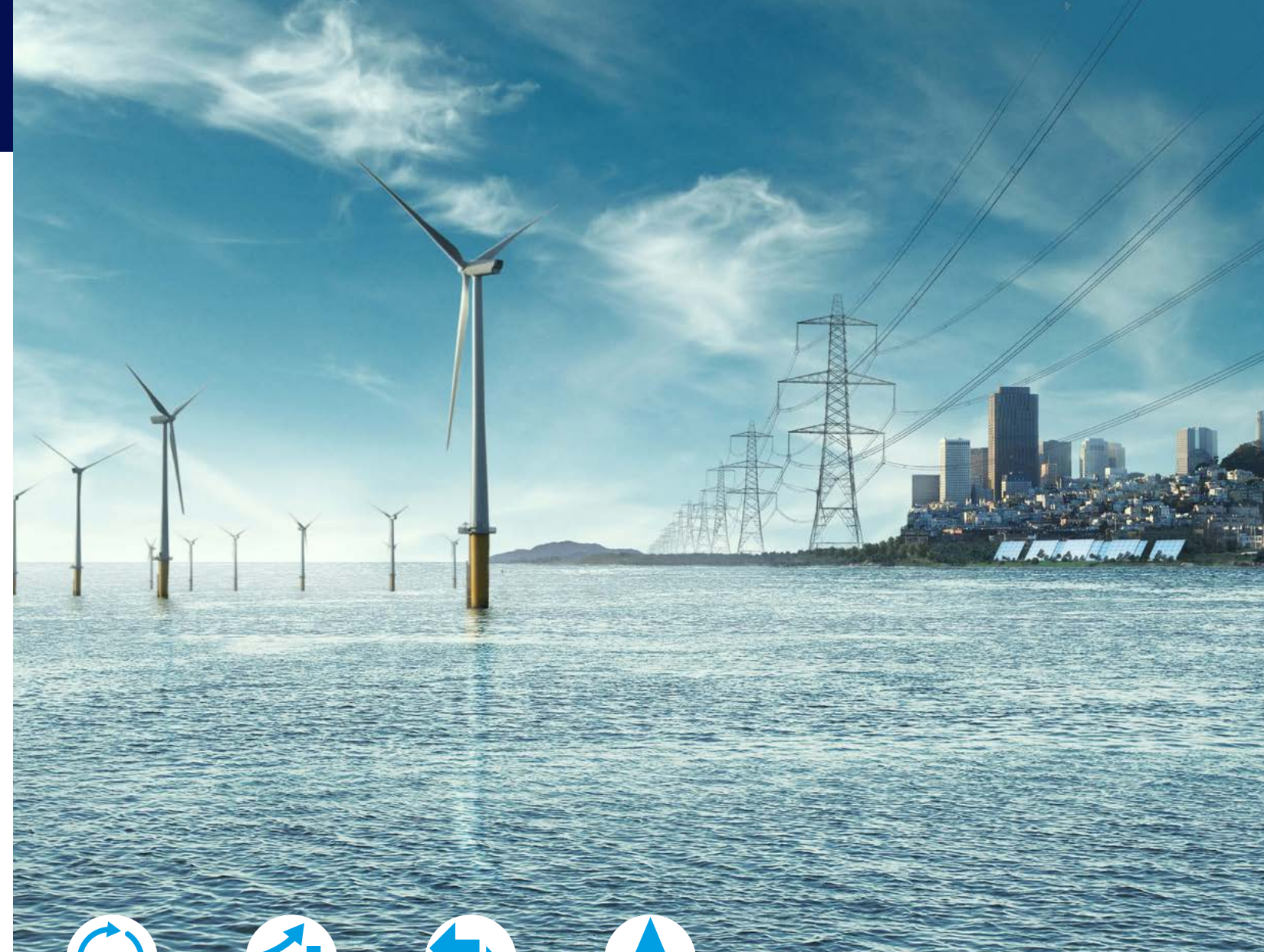
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# INTRODUCTION

The electricity industry is moving from the stasis and certainty of the 20th century to a dynamic future, prompted by increasing environmental priorities, evolving technologies, distributed generation (DG), and the rise of new forms of customer engagement.

To measure the industry's pulse and capture what challenges and opportunities are on the minds of leading industry executives and managers, DNV GL conducted a second annual survey of 100 energy industry professionals in North America. This document summarizes survey findings and provides key insights about these results and the forces shaping the future of energy.



# Executive Summary

The electricity sector today is characterized by significant potential for disruption and growth. Regulatory, technological, and consumer-driven changes are opening the market for innovative products and services. Revised regulations are facilitating greater physical and commercial access to the grid. Product cost reductions and performance improvements are prompting broader adoption of disruptive technologies – those that can open up new channels to market and enhance energy management. To take a snapshot of perceptions of and reactions to these changes, DNV GL conducted a second annual survey of electricity industry insiders. The results give unique and timely insights into the priorities, concerns, and expectations of utilities, system operators, equipment suppliers, policy makers, renewable providers and other stakeholders in the electricity industry.

The findings reveal that entities across the industry are looking to define new business models. Over a third of respondents believe that the need to find new business models is the most significant challenge facing the utility industry over the next five years.

The need for new business models is prompted in part by growth in distributed generation (DG) and adaptation to emissions regulations. Policymakers, utilities and independent power producers alike are looking to renewable DG, centralized renewable production and energy efficiency to support emissions reduction approaches in addition to other emissions control strategies. This places a new priority on clean energy technologies for the industry to develop products and services around. Furthermore, the success of photovoltaic solar (PV) in the industry illustrates the potential for novel DG-based business models in the electricity sector. Just under a third of respondents believe that net metering and DG interconnection will have the greatest impact in shaping the industry by 2020, followed by greenhouse gas (GHG) and emissions controls. Nearly a quarter of respondents believe that lack of clarity in national energy and environmental policies will be a significant challenge. Policies such as net metering, DG interconnection and emissions regulations will influence who and how clean energy products grow within the marketplace.



Last year's survey saw the industry taking a proactive approach towards DG and evolving policy around energy and the environment. This optimism persists – over forty percent of this year's respondents plan to take a proactive strategy towards new entrants in the DG space and over half plan to adopt new technology to improve operations or grow earnings more broadly. Many respondents expect to increase their product or service offerings. Energy storage and home automation systems are projected to see the greatest percentage increase between now and 2020, and DG and demand response (DR) management systems are projected to make up the greatest share overall.

However, in the midst of proactive adaptation, we see the potential for significant competition to come. Industry stakeholders have begun to position themselves to take on new business for growth opportunities or to hedge oncoming risks to their current business models. This year stakeholders indicated a slight increase in defensive strategies towards new entrants across the value chain. Furthermore, business models are now a priority. In the market we are beginning to see companies forge new partnerships and stake out new offerings. Industry regulars, like JustEnergy and Duke Energy, have formed partnerships to support distributed PV offerings for their customers. New players such as Tesla and ADT have launched energy products into the market.

Ultimately, customer demand for added value and willingness to pay for new offerings will determine whether innovative energy offerings will succeed. Industry stakeholders believe energy cost savings, increase reliability, and integration of renewables are the key services customers value. The question is whether and how providers can add value to customers and reduce cost of delivery, finding the margins to allow new business in an evolving landscape.



## Significant Challenges

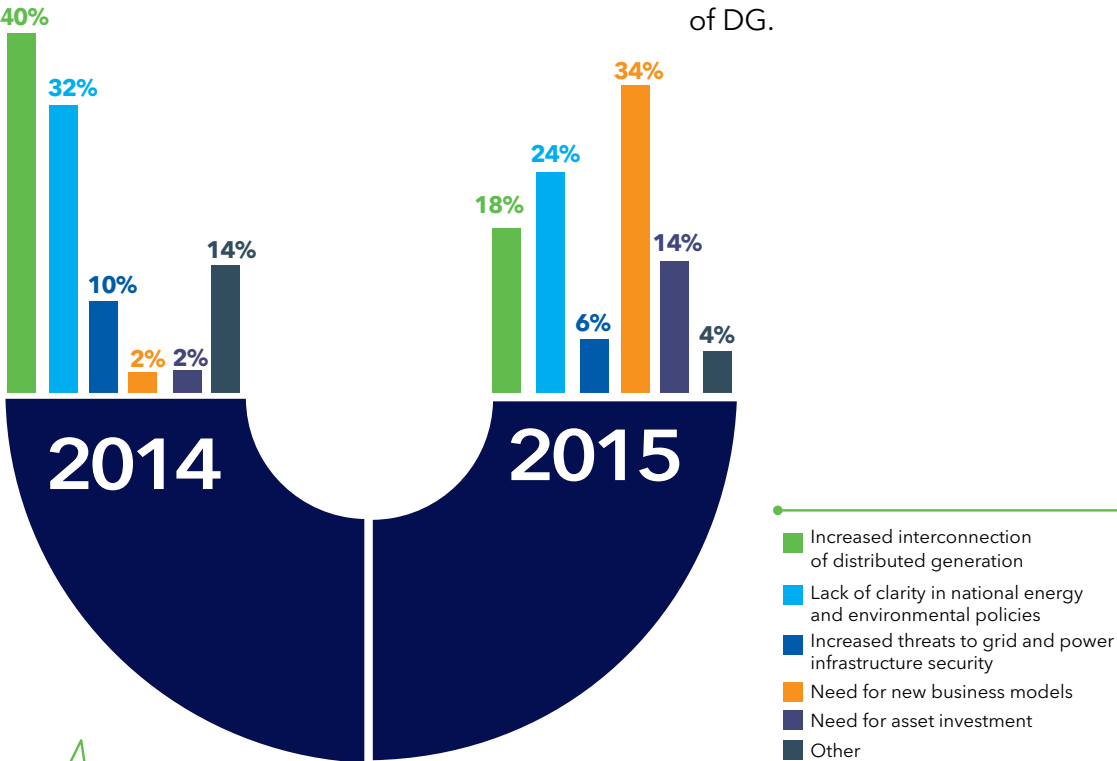
What is the most significant challenge facing the utility industry over the next five years?

According to over a third of the survey respondents, the most significant challenge facing the industry within the next five years is the need for new business models. The rise of PV across portions of the U.S. is but one example of how business models within the electricity industry are changing. Supplied by third-party vendors and financiers, the sizeable growth in PV illustrates the viability of new entities taking novel approaches to providing energy services to consumers. The indirect effects of this phenomenon, including reduced demand for energy from the grid, also exemplify the risk to traditional business models.

Lack of clarity in national energy and environmental policies remains the second highest concern. It is marginally lower in importance from 32% to 24% this year.

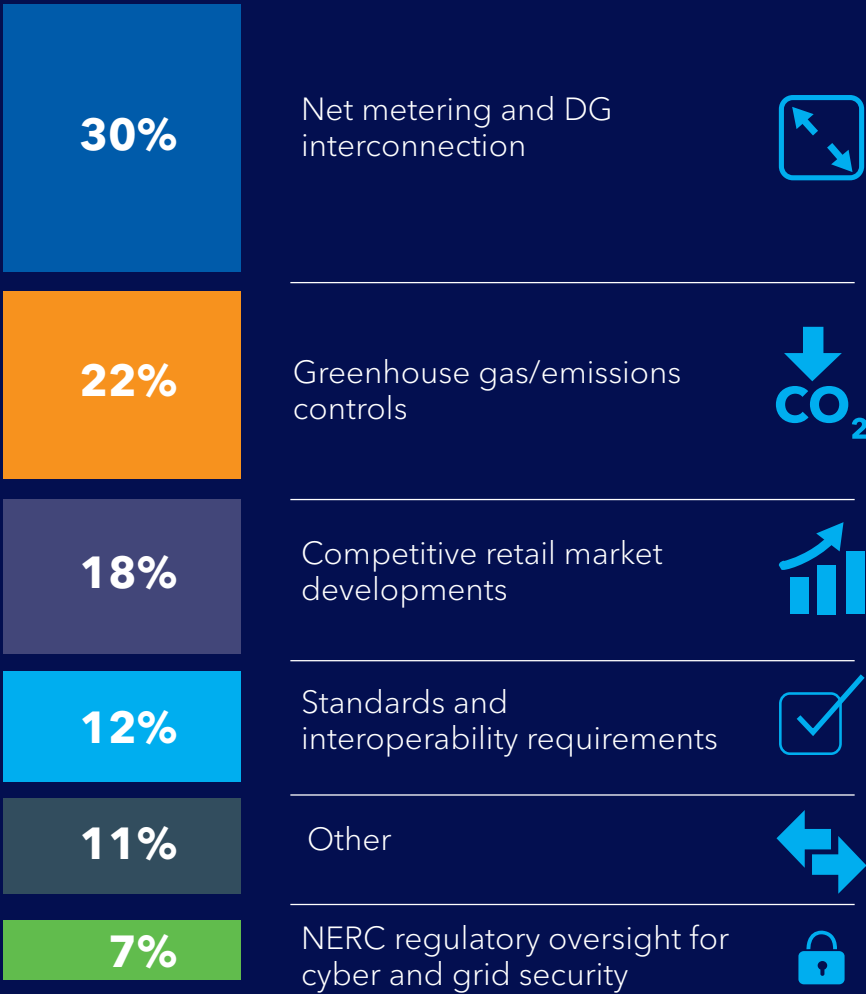
State Renewables Portfolio Standards and the EPA's Clean Power Plan are indicative that environmental issues, such as climate change and air quality, are maintaining status on the policy agenda. While clarity about how the EPA's Clean Power Plan will work is increasing, additional details will be developing in months to come.

Though concern about interconnection of DG remains, the challenge it presents is significantly diminished from last year - respondents lowered its relative importance from 40% to almost 18%. Interconnection policies are quickly resolving with the development of standards, like Rule 21 in California and changes to IEEE 1547. Furthermore, federal and state policies have moved to define storage interconnection and revise rules to fast track interconnection of DG.



## View to 2020

What policy or regulatory advances do you believe will impact the industry's evolution the greatest by 2020? What significant management action do you foresee as being the highest priority for your company to mitigate impacts from the external forces listed in the previous question?



Net metering and DG interconnection, and GHG emissions controls remain the primary policies to impact the industry by 2020 according to industry professionals. Both are relevant to growing renewable energy shares in the U.S. By far, PV constitutes the greatest share of DG on the grid today and renewable energy will have a significant impact on GHG emissions.

These results echo the findings from 2014. The consistency between the two years suggests that these issues are persistent and will continue to play out over the longer term.

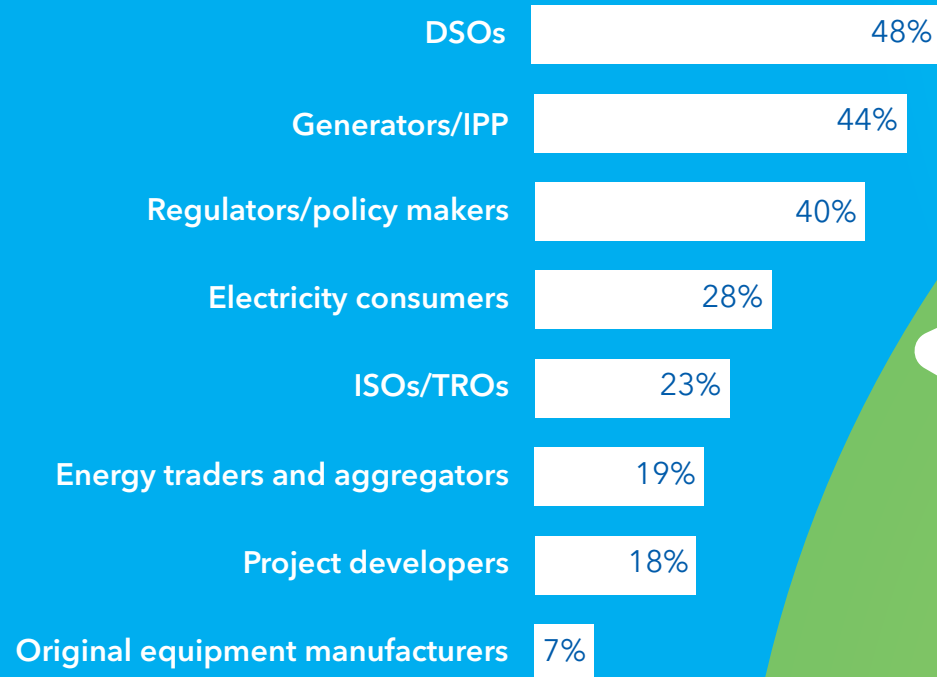
# THE RISE OF RENEWABLES

The transition to a renewables-based electricity system (70% by generation) poses the greatest challenges to which stakeholders in your market(s) of interest?

Renewable energy is poised to feature prominently for years to come, both at the bulk and distributed levels. As a result, industry insiders see distribution system operators (DSOs) and generators/independent power producers (IPPs) being most affected by significant renewable penetration. Both sets of stakeholders are likely to need to adapt their business models in light of increased renewables. Distributed PV can reduce volumes of energy being transmitted over the grid, affecting revenue recovery mechanisms that are predominantly tied to kilowatt-hour-based fees. Furthermore, sizeable penetrations of PV can change the nature of required capital investments, offsetting distribution and generation capacity needs while potentially requiring investments to manage reverse power flows during low load conditions and maintain voltage during variable periods of production. Furthermore, in many regions across the U.S., renewable production is starting to offset other forms of energy production.

In a recent DNV GL global survey, *Beyond Integration*, 1,600 participants in 71 countries weighed in on the state of a renewables-based electricity system. Worldwide, the majority of respondents believe the electricity system can be 70 percent renewable by 2050, if not earlier. However, to achieve this, a dramatic change in the industry's approach to the integration of new technology is needed.

Read the complete report at [www.dnvgl.com/beyond\\_integration](http://www.dnvgl.com/beyond_integration)



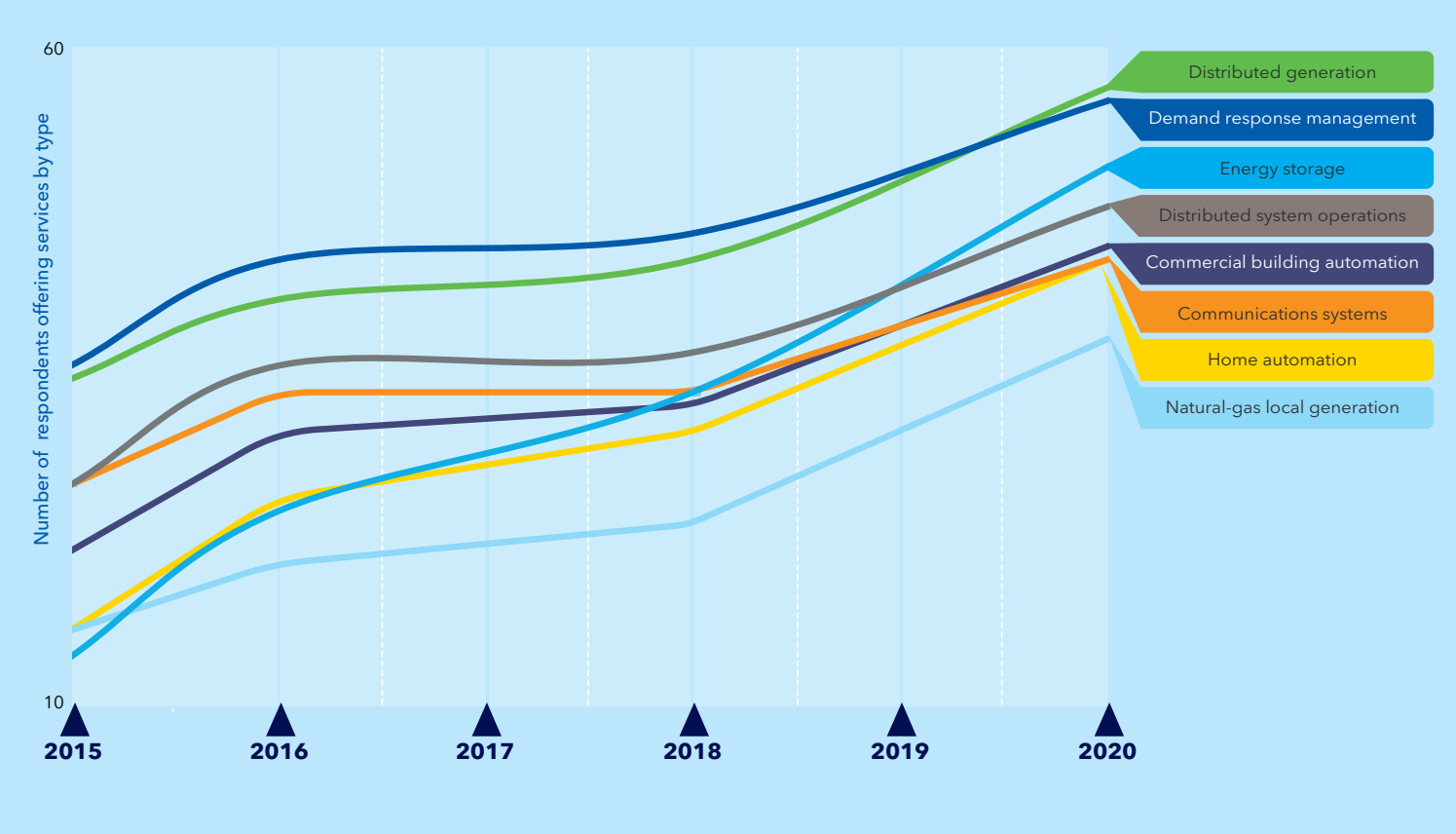
# LAUNCHING NEW PRODUCTS AND SERVICES

Which of the following products and services does your organization currently (or plan to) offer? What is the timing of launch?

Utility stakeholders appear to be preparing to offer a broad range of products and services to their customers. This expansion reflects increasing experimentation with new value-add offerings and nontraditional business models. The types of offerings also point to the increasing value of versatility and flexibility in the future grid.

Respondents indicate that DG and DR systems are likely to remain significant in terms of total relative offerings. Energy storage, in particular, is expected to gain prominence by 2020 with 51 percent of

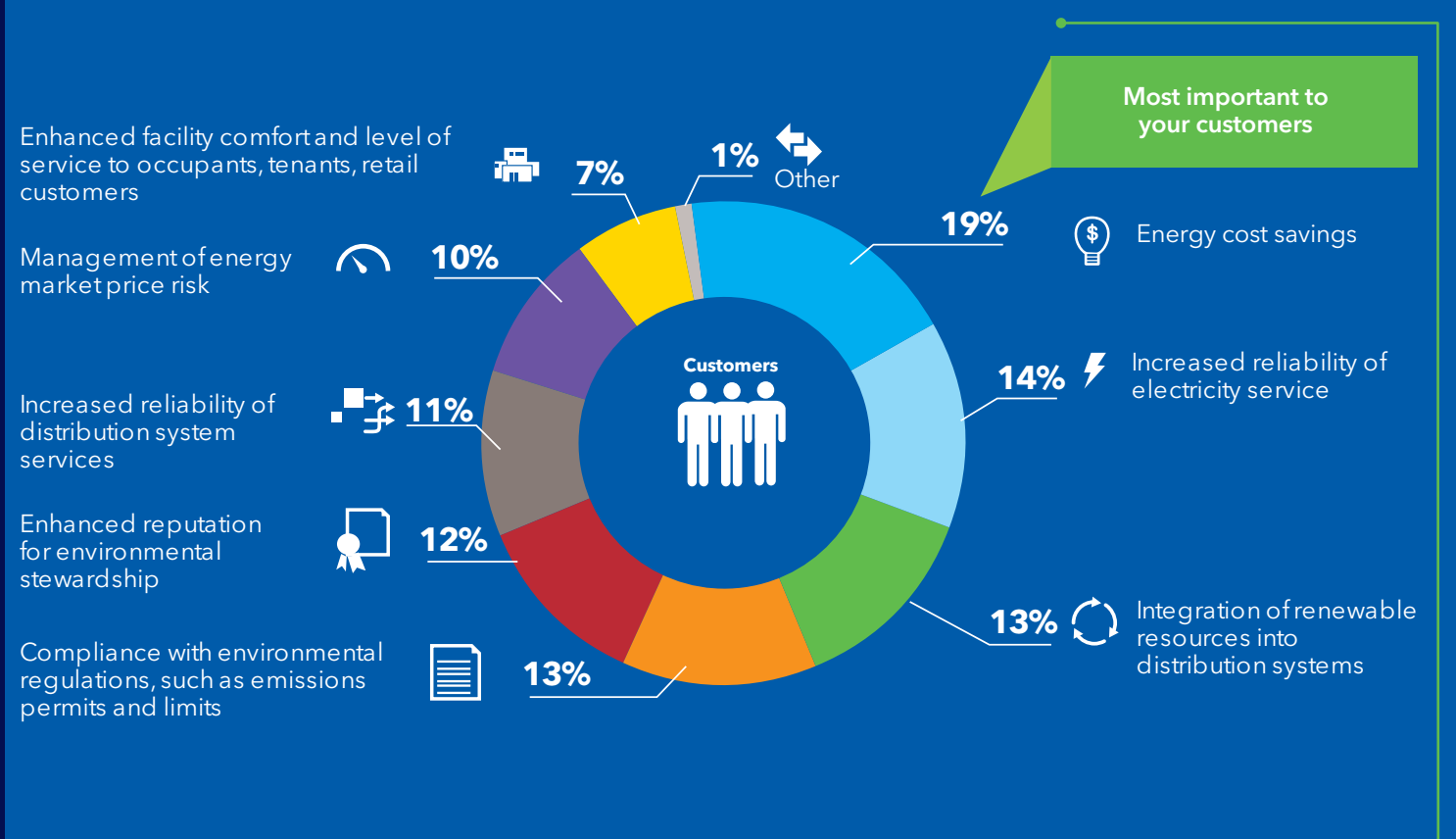
respondents anticipating providing energy storage products or services by 2020, according to the survey. This timeframe will likely see innovation in storage technologies, increasing the applications and cost-effectiveness of energy storage. The range of possible benefits of energy storage, from renewables integration to deferred system upgrades to load shifting, could allow it to play a substantial role in the changing industry. Other products and services – such as home automation systems and natural-gas fired local generation – are expected to see significant market growth as well.



# WHAT CUSTOMERS VALUE

What are the most important values your customers derive from your services? Among the values you selected, which do you think is the most important to your customers?

Providing customers with increased value is key to evolving successful energy commodity products and services. According to those surveyed, energy cost savings, increased electricity service reliability, and renewables integration into distribution systems were perceived as the top three most important value components for customers. Half of the respondents chose energy cost savings as the single most important benefit provided to their customers. The new products and services that the industry expects to see launched by 2020, including DG, DR and energy storage, will need to focus on those elements that can bring the most value to customers.





# POSITION ON NEW STAKEHOLDERS

What position will your company take relative to new stakeholders entering the industry in each of these areas?

Consistent with the findings from the 2014 Utility of the Future Pulse survey, this year's respondents indicate that the industry is generally taking an "offensive" strategy with regard to new stakeholders entering the industry in the area of DG. Bulk and retail power and gas and electricity transmission are generally characterized by waiting and observing how trends will play out. Nevertheless, compared to last year, stakeholders overall are slightly more defensive. The percentage of respondents taking a defensive strategy towards new entrants in retail gas and electric supply increased from 3% to 13%. Likewise, the percentage doing so with DG increased from 12% to 20%.

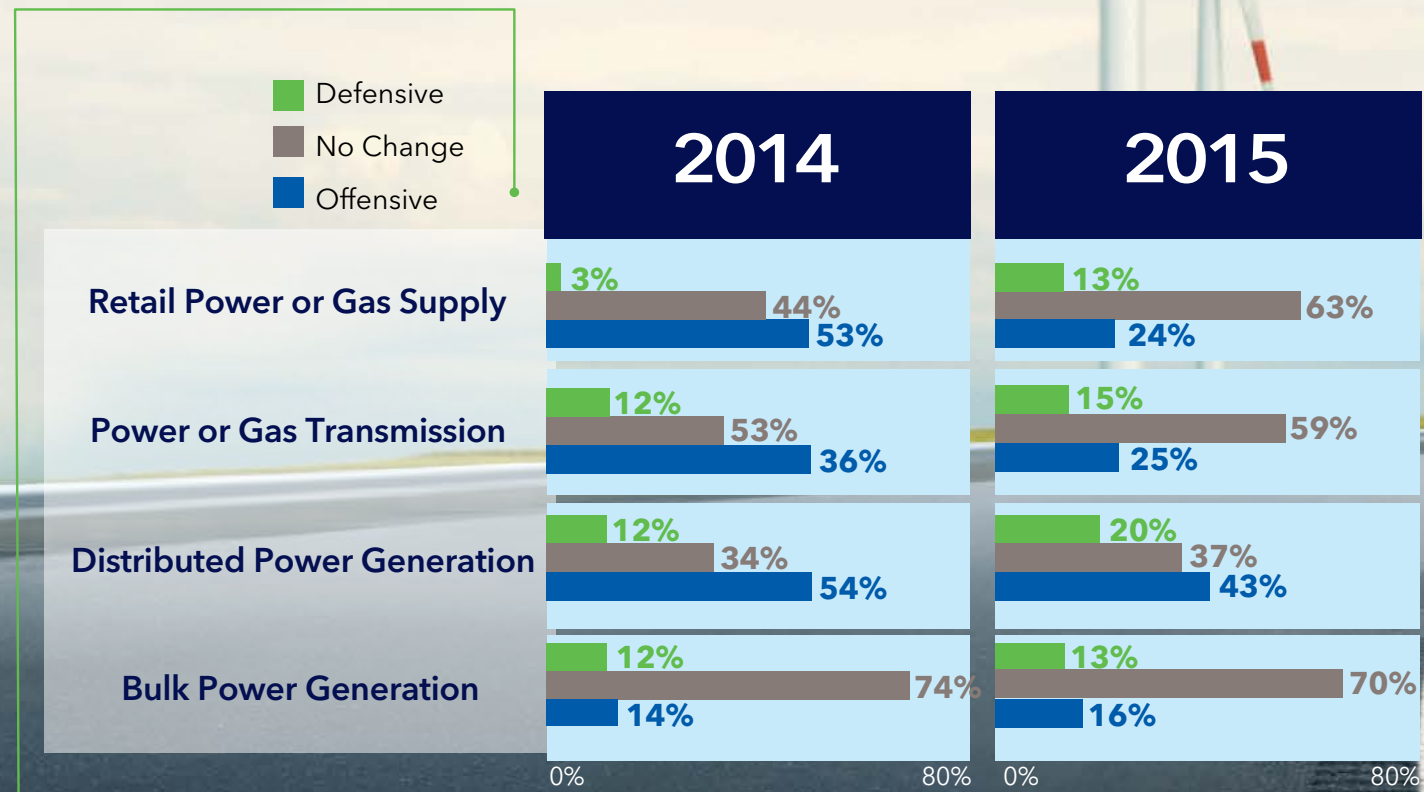


# RECOMMENDATIONS

In coming years we will see the utility industry working to define new business models and adapting to GHG and emissions controls. Today, new entrants are moving into the market and existing players are branching out into new products and services. In turn, future policy and regulatory changes will shape the playing field for new offerings. A multi-pronged approach of technology development and adoption, policy engagement, and business model innovation is likely. The pulse of the industry shows that companies are increasingly active in these critical areas.

Here are some questions to consider as you explore your options:

- How can your business anticipate trends and plan for a range of possible futures?
- What is the best approach for developing a business model that takes advantage of growing market opportunities and hedges against market risks?
- What are the primary needs of your customers, and how can you attract and retain them?
- How will emerging changes in policy affect your business?
- What new offerings should you consider to take advantage of the changing technology landscape?



## The utility of the future

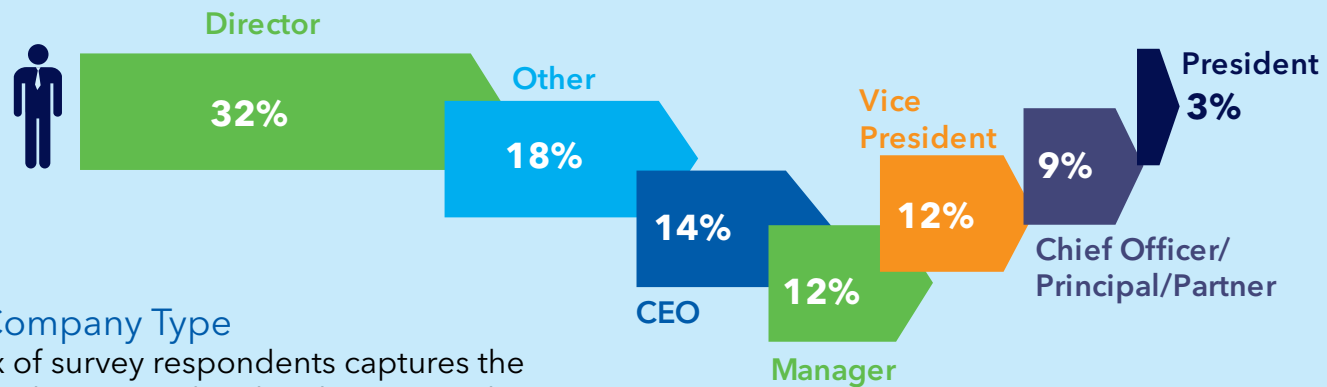
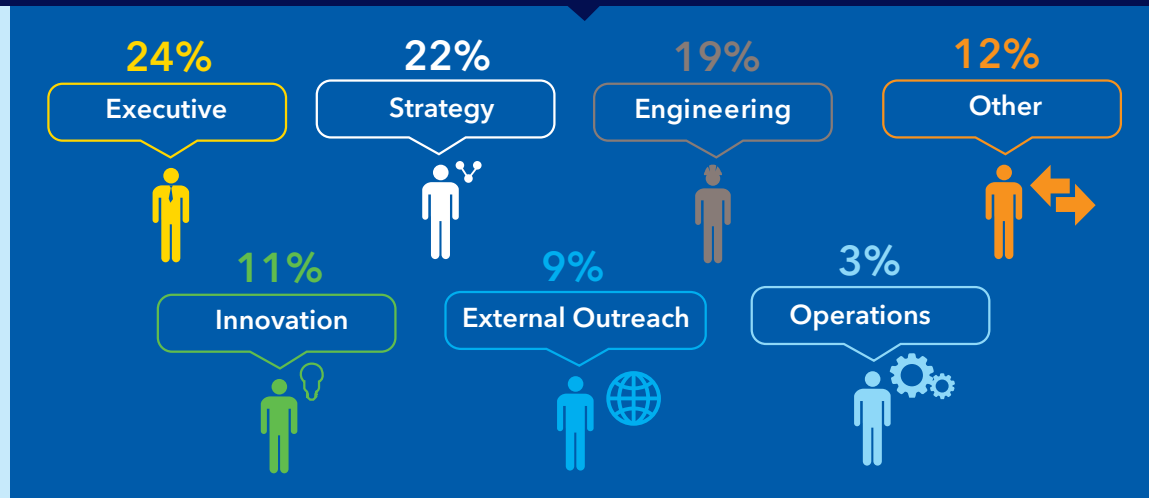
The utility of the future offers exciting prospects for near-term change and growth. However, given the fundamental nature of impending changes – environmental policies and the decentralization of the grid affecting the entire utility value chain – a holistic perspective is critical for devising successful strategies for adaptation.

Through technical, policy and business insight, DNV GL offers services that can help you identify the implications of emerging technology and policy trends and devise strategies on how best to adapt to or influence these market changes. Our experience across the energy spectrum, from policy to end users to bulk power, can help you understand your options within the context of the full power system.

For additional information on our broad range of advisory and testing capabilities, please visit: [www.dnvgl.com/UofFKnowledgeHub](http://www.dnvgl.com/UofFKnowledgeHub)

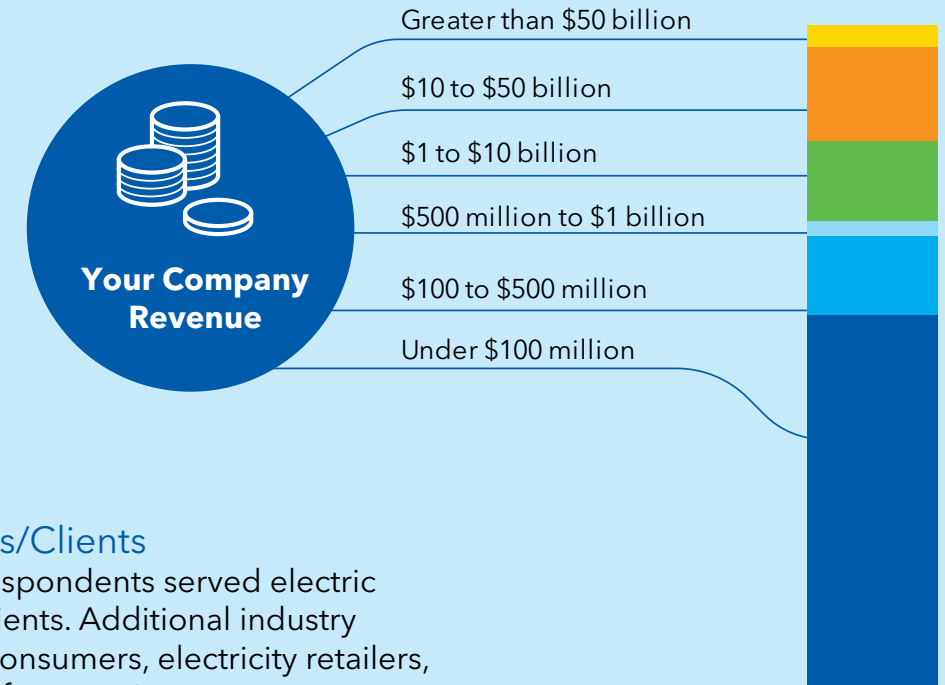
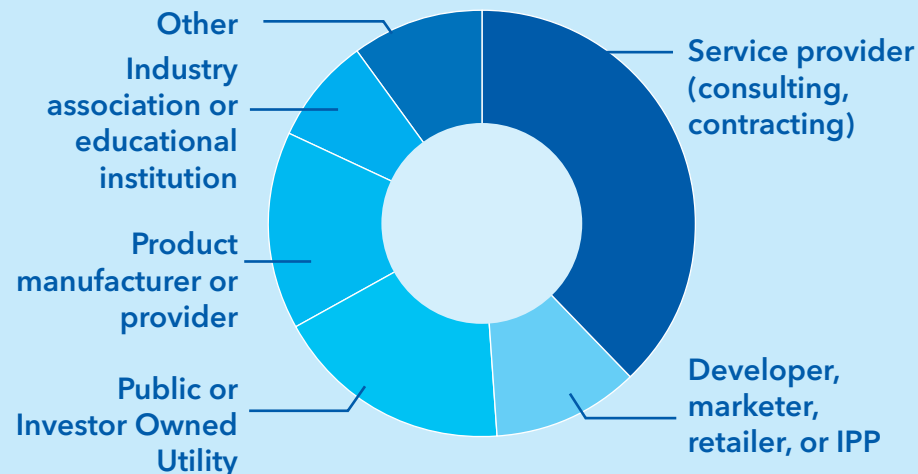
# RESPONDENT PROFILE

Respondents include representatives from senior management, including presidents, CEOs, VPs, directors, principals, and partners. They represent diverse roles within the industry, including executive, strategic, and engineering perspectives across the energy spectrum.



## Your Company Type

The mix of survey respondents captures the growing diversity within the electricity industry. Our 100 respondents hailed from utilities, manufacturers, developers, retailers and IPPs, industry associations, contracting firms and other industry players.

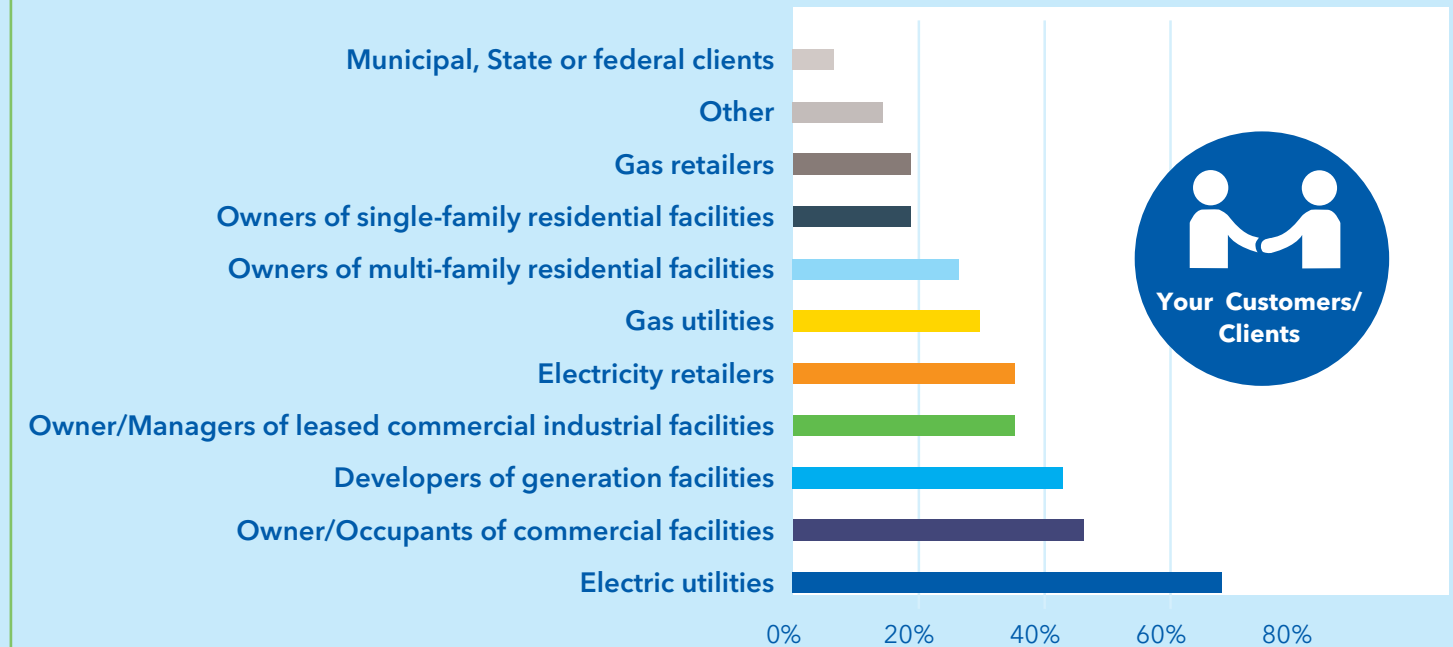


## Your Customers/Clients

The majority of respondents served electric utilities as their clients. Additional industry clients included consumers, electricity retailers, and developers of generation.

## Your Company Revenue

The annual revenue of companies participating in the survey ranged from under \$100 million to greater than \$50 billion.



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**In the energy industry**

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# C/CAG AGENDA REPORT

**Date:** July 15, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Adrienne Carr, BAWSCA, RMCP Committee Member  
**Subject:** Update on Current Water Supply and Drought Conditions  
(For further information contact Kim Springer at 650-599-1412)

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## **RECOMMENDATION**

Receive an update on current water supply and drought conditions.

## **FISCAL IMPACT**

None

## **BACKGROUND/DISCUSSION**

With ongoing dry conditions throughout California, the Bay Area Water Supply and Conservation Agency (BAWSCA), which represents the 26 wholesale customers of the Hetch Hetchy Regional Water System, is working with its member agencies to track water use, ongoing drought conditions, and progress towards mandatory water use reduction goals.

BAWSCA staff has been providing short updates of water supply conditions, monthly, to the RMCP Committee. The most recent update was at the April 2014 meeting. BAWSCA staff will provide an update again at this meeting on the current water supply outlook, conservation outreach, and other topics, especially in light of the recent Governor's executive order for mandatory conservation efforts.

Adrienne Carr, Senior Water Resources Specialist, will provide an update on current water supply and drought conditions.

## **ATTACHMENTS**

None