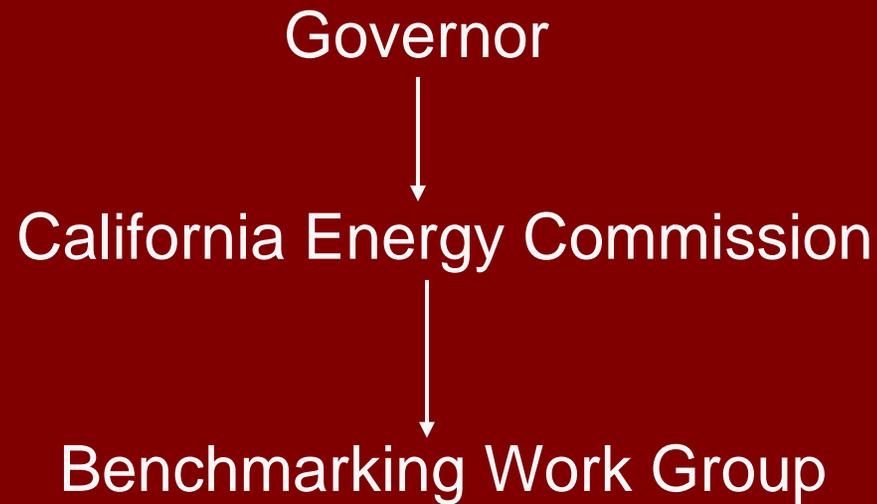


# Benchmarking CA State Buildings

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# [ Executive Order S-20-04 ]



# [ S-20-04 Directives ]

- Benchmark all occupied State buildings
- Reduce energy use 20% by 2015
  - From the 2003 baseline
  - Encourage all commercial buildings to do likewise

# [ California Energy Commission ]

- Chose U.S. EPA's Portfolio Manager at <http://www.energystar.gov/benchmark>
- Formed the Benchmarking Work Group
  - US EPA
  - California State agencies
  - California energy utilities
  - Private sector

# [ Benchmarking Goals ]

- Develop infrastructure for automated benchmarking
- Benchmark all state buildings
- Make benchmarking universally available
- Use benchmarking to track progress toward energy use reduction goals



PART 1

California Benchmarking  
Process

# [ Simplify authorization ]

- Customer permission required for utility to release billing data to PM
- Simplified authorization form
- Utilities adopting electronic signatures
  
- Grants utilities access to PM data
  - Building square footage
  - Occupancy, # people, # computers

# [ State provides facility data ]

- Facility identification
  - name, location, year built, square footage
- Optional facility info
  - # of people, # of computers, op hours
- Billing Meter identification
  - Usually multiple meters & utilities

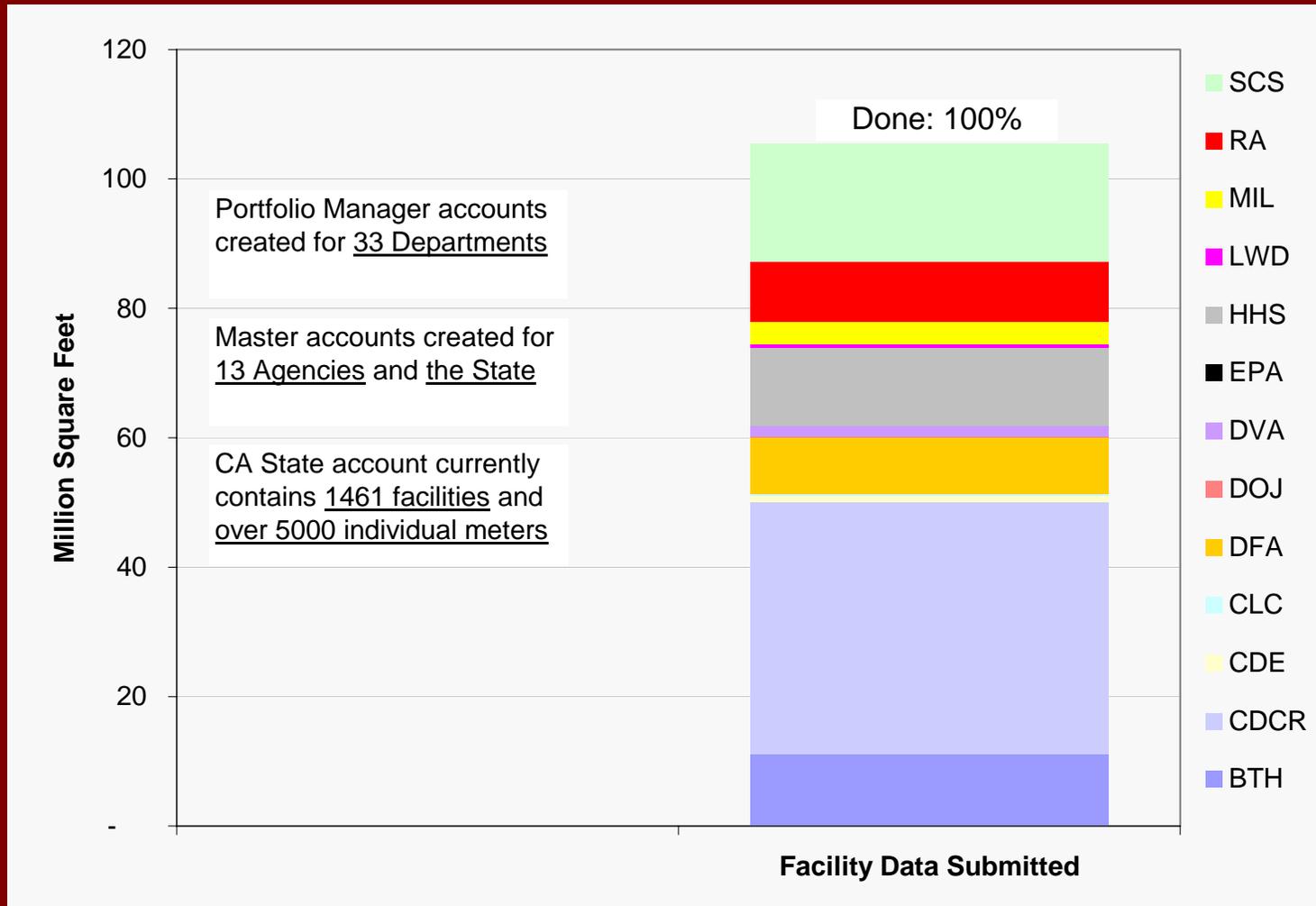
# [ Utilities provide energy data ]

- Monthly data from 2003 forward
- Automated uploads
  - PG&E, SMUD, SCE, SDG&E, SoCalGas
- Excel spreadsheets or printouts
  - All other utilities
  - Must be uploaded by State personnel

# [ State Benchmarking Status ]

- State Facility Data: Done
- Utility Energy Data: ~90% Done
- Have handed over majority of quality control to State departments
  - We continue to help, but they are in charge of assessing, maintaining, and updating their accounts

# State Facility Data



# [ Next Steps ]

- Final report for all State buildings
- Complete utility upgrades to ABS 2.0
- Enlist public utilities in automating
- Expand within utility programs
  - Retrocommissioning
  - Local government partnerships



PART 2

Future of Benchmarking  
with AB1103

[ By January 1, 2009 ]

- Electric and gas utilities must...
  - “maintain records of the energy consumption data of all nonresidential buildings ... for at least the most recent 12 months.”
  - “Upon written or secured electronic authorization ... upload all of the energy consumption data for a building to the Energy Star Portfolio Manager...”

[ By January 1, 2010 ]

- Nonresidential building owners & operators must...
  - “disclose Energy Star Portfolio Manager benchmarking data and ratings, for the most recent 12-month period, to a prospective buyer, lessee, or lender...”

# [ Enabling Regulations ]

- Not yet developed – CEC to undertake
- Questions to resolve
  - What data, in what form of release?
  - Any exceptions?
  - Phased in?
- Not included: public disclosure

# [ Current Problem - Tenants ]

- Multiple tenant meters in building
  - Account owner authorization needed to release data (confidentiality)
  - A single tenant can prevent benchmark
- Possible fixes
  - Virtual (aggregated) billing account
  - Required tenant data release (no authorization needed)

# [ Contact Information ]

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