Retrocommissioning

• **Program Description**: Retrocommissioning is a 3rd party resource program by PECI that offers commercial customers a no cost customized engineering study to identify low or no cost energy efficiency solutions yielding a quick payback of often just a few months. Program provides services and incentives to support RCx of existing systems. Some typical issues identified:
  – Simultaneous heating and cooling
  – Lighting and HVAC running when not required
  – Controls needing to be retuned
  – Critical control sensors out of calibration
  – Economizers not operating properly

• **Project Phases**:
  – Application, screening (preferably with selected provider, if selected), and agreements
  – Investigation
  – Implementation
  – Verification of Measures and Savings & Follow-up
San Diego RCx Program

• **2010-2012 Stats:**
  – 6,808,516-SF
  – 11,217,827-kWh
  – 998-kW (exceeded goal by 66%)
  – 145,421-therms (exceeded goal by 12%)
  – $286,798 in investigation incentives
  – $320,232 in implementation incentives

• **2013-2014 Goals:**
  – 8,113,745-kWh
  – 88,382-therms
  – Targeting 20-30 projects (in addition to a few grocery pilots)

• **2013-2014 Program Changes:**
  – Minimum square footage decreased from 100,000 to 50,000 square feet.
  – Participation in RCx is a qualifier for a comprehensiveness bonus
Incentives

• Note: the RCx Program is a “resource program” and all incentives come from the program (not EEBI or EEBR)

• **Investigation & Verification Incentive:**
  – The program pays for the investigation and verification!
    - Valued at an estimated $0.12/SF (program pays provider $0.06/SF + $0.04/kWh installed + $1.04/therm installed)
    - Customer must agree to implement measures with a payback of 2-years or less (“required measures”)
      - Capped at 5% of annual electric cost

• **Implementation Incentive:**
  – For non-required measures (payback greater than 2-years, incentive is up to $0.08/kWh and $1.00/therm, but not to “buy down” to less than 2.0-years
    - Estimated at $0.05/SF
    - If bought down to 2-years, measure is considered required
  – Implementation costs can be funded with OBF

• **Comprehensiveness Bonus:**
  – Customer participation in the RCx program satisfies eligibility (bonus payment does not apply to the RCx incentives themselves)
Candidates & Recruitment

• Ideal candidates:
  – Greater than 50,000-SF of conditioned space (required)
  – High energy use – compared with similar facilities
  – Mechanical equipment in relatively good condition
  – A Direct Digital Control (DDC) system in place
  – Committed ownership, management, and building operators

• Recruitment:
  – SDG&E Account Executives
  – Providers
  – Previous customers
  – Program outreach (direct targets, BOMA, SDBEA, etc.)
  – Unsolicited (website, etc.)