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62	C1901 - C&I Sector-Wide Process Evaluation (non-SBEA)	<i>This process evaluation will cover the portfolio of CT's C&I programs, largely focusing on non-SBEA programs. The study will explore key questions that cut across the C&I programs and provide actionable information that will increase program cost effectiveness, market penetration, depth and comprehensiveness of savings, customer equity, and optimization of program expenditures.</i>	\$668,355	\$601,326	90%	98%	Received EA Team feedback on revised Final Report, currently revising report based on comments.		Revised Final Report and submitted to EA Team on 8/6/21.	Revising Final Report based on EA Team feedback. Expected to delivery revised report by 10/22/21.	Delivery revised Final Report to EA Team by 10/22/21.
63	C1906 SEM Design and Evaluation	<i>The C1906 project will focus on evaluating the Strategic Energy Management (SEM), a specific initiative of the Business and Energy Sustainability (BES) program to achieve energy and non-energy benefits. The Connecticut utilities currently do not claim savings from the SEM program; this project will primarily identify methods to estimate energy savings from the program from an evaluation perspective. Over the course of this study, the evaluation team will gather information about the current state of the SEM program and barriers to claiming savings, identify effective and cost-efficient methods for collecting the data for claiming defensible savings from SEM, research and advise on program processes to support the utilities in documenting and claiming savings from the initiative, and enable an eventual impact evaluation of the SEM initiative after methods to claim savings have been established.</i>	\$264,880	\$151,095	57%	50%	No		4/15/2021 - Present SEM Evaluation Methods Webinar	Process evaluation instrument development; October 31, 2021	Process evaluation instrument development; October 31, 2021
64	C2014 C&I Lighting Saturation and Remaining Potential	<i>The primary objective of this study is to characterize the current status of the Connecticut C&I lighting market and then forecast the remaining potential for lighting programs. The results of this market characterization will also be used to update impact parameters for calculating lifetime gross savings.</i>	\$400,000	\$130,000	33%	30%	No outstanding items		Phase 1 final memo on 7/1/21	Refine objectives and approach for Phase 2 - 10/29/2021	Phase 2 kickoff - early November
81	C1902 ECB NTG and Baseline	<i>This study integrates NTG and market baseline research and analysis components to support improved accuracy of gross and net savings estimates for the ECB program. The study also includes non-residential new construction code compliance and estimation of NTG values for the Upstream non-lighting program. The outcomes can then be used to inform future program changes to increase program attribution.</i>	\$680,000	\$430,557	63%	48%	None		Upstream Distributor IDIs completed 7/31	Fielding cross-cutting market actor IDIs (Aug-Oct), program and field web-surveys for baseline and upstream (contractors/customers) in Sep-Nov	Wrap up baseline and upstream surveys by Oct, code compliance analyses by end of Oct
82	X1931-1 ISP Comm Boiler & Furnace Study	<i>Establish an Industry Standard Practice (ISP) baseline for boilers and furnaces in commercial buildings in CT.</i>	\$59,900	\$48,000	80%	95%	Awaiting comments on review draft submitted 8/9/2021		Review draft report submitted 8/9/2021	Awaiting comments on review draft	Finalize report based on review draft comments

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83	X1931-2 Coincidence Factor and Loadshape Study	Establish an Industry Standard Practice (ISP) baseline for boilers and furnaces in commercial buildings in CT.	\$121,100	\$105,000	87%	90%	Awaiting comments on review draft submitted 8/10/2021		Review draft report submitted 8/10/2021	Awaiting comments on review draft	Finalize report based on review draft comments
84	X1931-5 Comm Refrigeration Efficiency Update Study	Update aggregate commercial refrigeration efficiency values through primary and secondary research (COP and ACOP). Recommend an approach to quantify HVAC interactive savings for measures with refrigeration savings.	\$29,600	\$32,000	108%	80%	No		Data analysis on individual systems complete and discussed with the EA Team.	Aggregate analysis of data for final ACOP values.	Draft presentation of results to EA Team 10/11/21
85	X1931-6 Hours of Use Documentation	This study will document the sources of HOU/FLH values in the PSD and recommend updates to the HOU/FLH values as available from secondary sources	\$9,900	\$9,000	91%	95%	Review draft submitted on 8/4/2021. Awaiting comments.		Review draft report submitted 8/4/2021	Awaiting comments on review draft	Finalize report based on review draft comments
86	R1959 Single-Family Renovations & Additions Potential Analysis	Market characterization, savings potential study, and program pilot process evaluation for single-family renovations and additions	\$170,000	\$152,967	90%	99%	Revised report review draft based on EA Team and stakeholder feedback, waiting on permission from EA Team to call final.		Another revised draft of report submitted in September to EA for their comments.	Received final comments from EA; Final expected any day (in editing).	Received final comments from EA; Final expected any day (in editing).
89	R1965 HP/HPWH Baseline and Potential Assessment	The study will incorporate multiple primary and secondary data sources to estimate the size of the market in CT, including previous baseline studies, purchased sales data, as well as shipment data. The team will also solicit feedback from manufacturers, distributors, and installers through interviews and surveys to better understand the future of the market for heat pumps, as well as system configurations that are dominating the market. Finally, the team will perform cost effectiveness testing at the measure level, focusing on particular system configurations of interest.	\$325,000	\$273,304	84%	85%	None		All analysis (including cost effectiveness testing) completed in September, and wrote majority of draft report.	Preparing draft report for submission to EA Team.	Submit draft report to EA Team in Oct.
91	R1982.HVAC/DHW Performance and Potential Evaluation	R1982.Circuit-level monitoring of electric HVAC and DHW loads in single family homes. Data analysis to inform fuel use, seasonal efficiencies, and peak demand for HVAC and DHW equipment in single family Connecticut residences.	\$740,000	\$320,000	43%	19%	Budget augmentation requests		Initiated recruitment and the installation of monitoring equipment.	Recruitment and equipment installations; ongoing QC	Recruitment of sites, installation of equipment. Deadline is as soon as possible
92	R2023. RASS Enhancement (R1965 add-on)	An enhancement to the existing RASS database developed in 2018 by NMR. The enhancements include additional statistics on energy-efficiency. This is an R1965 add-on from a contracting perspective.	\$30,000	\$27,000	90%	80%	No		Completed user training and submitted final Database and User Manual 10/29/20	Awaiting any requests for new additions to database	N/A
93	R2027 HP/HPWH Reliability	A study looking at the reliability, satisfaction, and repair costs of HP/HPWH	\$75,000	\$67,522	90%	95%	None		End-user survey fielding, May 17, 2021	Reporting underway as part of R1965, October 2021	Submit draft report as part of R1965, October 2021

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94	R1983 HES/HES-IE Impact and Process Evaluation	The study will utilize multiple primary and secondary data sources to determine the gross and net energy savings associated with HES/HES-IE measures, as well as the effectiveness of the programs' delivery to residential customers in Connecticut. In addition to core impact (e.g., billing and engineering analysis) and process (e.g., interviews and survey) tasks, the study also includes a customer profiling effort that will combine program tracking, Census, and third-party data sources (where available) to identify geographic areas within the state that participate at higher- or lower-than-expected levels.	\$890,000	\$496,443	56%	55%	No		Finalized participant survey; prepping for launch. Present preliminary customer profiling insights at recent weekly call; more coming soon.	Preparing to share second wave of customer profiling insights (regressions models) with EA team, nearing completion on all three impact eval tasks; expecting to share draft results in early November	Officially launch participant survey (in English and Spanish); present second wave of customer profiling results
95	R2029 SF Weatherization Assessment and Update	This study will provide an updated assessment of the state's progress toward its weatherization targets and will assess opportunities to revise the current draft weatherization standard.	\$110,000	\$46,034	42%	6%	Waiting on R1983 and additional program data. Study did not include budget for a data request beyond what was requested through R1983 process, and data coming from that study has been delayed and is incomplete for R2029 purposes, which affects program design. Waiting for new additional data from utilities that can help address issues. Coordinating with DEEP process triggered change in project design which is not final; new study design will coordinate more with DEEP's weatherization standard update process. The study will assess weatherization progress, but one of the metrics is WAP data. WAP data from CRT were valuable, but they did not include address info, which is necessary. Tried negotiating with them to get unredacted version of database, but this is unlikely, and study will have to find new ways to move forward without complete database.		Additional data call with Eversource (9/2/2021) to figure out how HES data handles overlap with WAP program, waiting on new program data. Previously provided interim memo (2/17/2021) providing feedback on the DEEP draft weatherization metric memo, noting what metrics are reasonable and how they can be assessed as part of this study. Also responded to EA Team comments on that memo (3/27/2021). No further movement on CRT database.	Reviewing partial HES data and WAP data, waiting on additional data from Eversource. Project planning on hold while we wait for data HES, which will affect study design. Unknown completion date.	Project planning on hold while we wait for data from HES, which will affect study design. Unknown completion date.
96	R2120. Appliance Recycling Impact	R2120. Study will 1) estimate gross and net savings from 2019 and 2020 recycling program; 2) explore optimal incentive levels; 3) estimate program impact on reclaimed materials (CFCs, plastics, etc.)	\$35,000	\$32,372	92%	80%	Review draft incentives memo (due October 12)		Delivered draft incentives memo on September 27	Waiting for comments on incentives memo, October 2021	Revise incentives memo, October 2021
97	X1931 In-Depth PSD Review	Conduct comprehensive, in-depth review of PSD to assure documentation, approaches, and values are consistent with the most recent studies as well as with other relevant technical resource manuals and industry standards. Identify gaps in primary data that can be addressed through future EM&V efforts and targeted studies.	\$704,211	\$630,000	89%	80%	No		Primary research in process	Reviewing remaining red line changes from 2020 PSD review updates.	Final redline approval from remaining 2020 PSD review recommendations.
98	X1939 Early Retirement	This is an evaluation of early retirement programs in CT. In addition to evaluating the CT programs directly, it also includes secondary research and interviews on other programs throughout the country to provide program design and process guidance.	\$284,543	\$164,191	58%	50%	N/A		Phase I research, draft report and results presentation	Phase I results memo and presentation	Updated Phase I report, October 2021

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100	CT X2022 - Education and Engagement Evaluation	We are conducting an evaluation of the Workforce Development, Education, and Community Outreach initiatives of Energize CT. The evaluation will include cataloging the education, training, and engagement activities; conducting secondary research around best practices and lessons learned in education, workforce development, and community engagement efforts elsewhere; and primary evaluation research with program participants across selected program efforts and activities to understand potential behavior changes and identify potential energy savings related to behavior changes.	\$457,000	\$289,905	63%	70%	We have contacted the utilities to follow up regarding how they advertise the workforce development trainings and have yet to receive a reply.		Completed interviews with trainers and participants in the workforce development initiatives; completed interviews with Green STEP instructors.	Education data collection (interviews/focus groups with high school teachers); Reporting across all efforts, expected by 12/2021	Deliver report to EA team; continue primary data collection with High School teachers whose students receive Green STEP materials.
101	X2001 - EUL	Study to provide statistically-defensible, upated, CT-appropriate EULs for several major residential and C&I measures.	\$275,000	\$206,860	75%	75%	We have received all data and materials requested to date.		Measure Group 2 survey completed	Measure Group 3 survey launch - Oct 25	Virtual QA/QC - 10/29
102	X1932 DR EM&V Support	The project will assess if UI DR pilots and projects are delivered in a way that allows evaluation of results in consistent and valid manner. This effort will also involve developing defensible estimates of kW savings from UI DR programs/pilots.	\$225,000	\$82,118	36%	45%	Data request for Eversource pending		Received feedback on DR-writeup on 7/25 (Bob and Ralph) and from Lisa via email	Awaiting data from Eversource (due Oct)	Complete C&I analysis using AMI data (by end of Oct), complete Eversource analysis in Nov
103	X1942 NEIs	This study will provide data and information to support expected revisions to Connecticut's cost-effectiveness tests. The research will address the high priority gaps in NEIs in the Connecticut PSD: (1) utility NEIs associated with low-income programs, such as HES-IE and EAP discounts; (2) health and safety NEIs associated with low-income programs such as HES-IE; (3) residential HP/HPWH NEIs; and (4) commercial participant NEIs.	\$325,000	\$158,257	49%	30%	Still waiting on arrearage-related data from Eversource		Preliminary draft of HES and HES IE surveys (September 2021)	Complete draft of HES/HES IE Surveys, preliminary review of arrearage data; developing HES and HES IE samples for surveys (Aug through Oct 2021)	Arrearage analysis, (Q4 2021); Field HES / HES IE and SBEA surveys (Q4 2021)
104	X1931-7 Degree Days Update Study	This study will update heating degree day (HDD) and cooling degree day (CDD) values for the CT PSD.	\$9,900	\$11,000	111%	95%	Review draft submitted on 8/4/2021. Awaiting comments.		Review draft report submitted 8/4/2021	Awaiting comments on review draft	Finalize report based on review draft comments
105	X1931-3 New Measure Compressed Air Systems	This study will incorporate a new measure in the PSD for Compressed Air Systems.	\$7,000	\$17,000	243%	95%	Awaiting comments on review draft submitted 8/25/2021		Review draft report submitted 8/25/2021	Awaiting comments on review draft	Finalize report based on review draft comments
106	X1931-4 New Measure Advanced Lighting Controls	This study will incorporate a new measure in the PSD for Advanced Lighting Controls. Additional Primary research to be conducted starting in July 2021 for completion in fall 2021.	\$50,000	\$33,000	66%	55%	Review draft submitted on 8/5/2021. Awaiting comments.		Review draft report submitted 8/5/2021	Awaiting comments on review draft	Finalize report based on review draft comments
107	X1931-8 New Measure Advanced Commercial Thermostats	This study will incorporate a new measure in the PSD for Advanced Commercial Thermostats. Additional Primary research to be conducted starting in July 2021 for completion in fall 2021.	\$30,000	\$14,100	47%	45%	No		Review draft report submitted 8/9/2021	Awaiting comments on review draft	Finalize report based on review draft comments

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108	R2015. Low Load and All-Electric Residential New Construction	R2015. Secondary research study on various issues related to next generation residential new construction programs and approaches. Exploring strategies, approaches, outcomes, market factors, and benefits and costs concerning advanced approaches to residential new construction that inform programs in their effort to stay ahead of industry practices.	\$75,000	\$14,000	19%	15%	None		Project initiation - October 1, 2021	Initial research - end of October 2021	Interim memo - end of October 2021
109	C2117 - RCx Persistence Study	Study to develop better estimates of retro-commissioning savings persistence.	\$50,000	\$3,709	7%	2%	All requested data has been received.		Scheduled background calls with utilities for last week of Sept/first week of Oct	Finalization of work plan, review of utility data - 10/15/21	Project kickoff - mid-Oct
110	R1968 RNC Baseline and Code Compliance	RNC Baseline study involving on-site inspections of homes built under the current building code.	\$350,000	\$0	0%	0%	No		None	Planning, expected completion: October 2021	Complete planning: October