
Least Cost Electric Utility Planning Harry Stoll

least-cost integrated resource and electricity supply ... - least-cost planning and competitive resource acquisition. the committees october 1990 report stated: ' the decades " of the 1970s and 1980s have demonstrated conclusively the enormous cost implications of utility resource decisions to the economies of our region and state as well as individual industries, businesses, local governments ... **least cost planning: principles, applications, and issues** - title: least cost planning: principles, applications, and issues subject: least cost planning: principles, applications, and issues keywords: least cost planning ... **power sector modeling 101 - department of energy** - presentation description -doe power sector modeling 101 ... and new regulations, environmental agencies, state energy offices and others have expressed more of an interest in electric power sector models, both for (a) interpreting the results and potential applications of modeling from other groups, and (b) ... at least-cost under specified ... **least-cost utility planning and demand-side management: a ...** - generation of electric energy. as a complement to these endeavors, the pace energy project has undertaken to compile this annotated bibliogra-phy of books, articles and other research materials devoted to least-cost utility planning and demand-side management. this introduction describes the organization and methodology **decision approving settlement between pacific gas and ...** - occurred during the record period.14 with respect to least-cost dispatch, pg&e discusses the least-cost dispatch guidelines and principles, pg&e's processes and process improvements. pg&e asserts it managed its portfolio according to least-cost dispatch principles and within the reasonable manager standard **resolution in support of incentives for electric utility ...** - resolution in support of incentives for electric utility least-cost planning whereas, national and international economic and environmental conditions, long-term energy trends, regulatory policy, and technological innovations have intensified global interest in **state, regional, and local agency least cost planning so urces** - - cost-benefit analysis with non-monetized indicators (example: psrc) ... theory all indicate that the 20th century approach to resource acquisition in the electric utility industry is ill-suited to the 21st century economic environment. indeed, it can be argued that the approaches ... is based on a least cost planning methodology that ... **cpuc adopts groundbreaking path to reduce greenhouse gases ...** - help the state achieve its 2030 greenhouse gas (ghg) reduction target, at least cost, while maintaining electric service reliability and meeting other state goals. today's decision establishes a two-year integrated resource planning cycle for electricity providers (utilities, community choice aggregators, and electric service providers). **attachment k - detailed least cost best fit evaluation ...** - selection of least cost, best fit renewable resources for use in rps solicitations. furthermore, d.05-07-039 directed the ious to make their bid evaluation process transparent to their procurement review groups and the cpuc. in addition, d.06-05-039 required "each utility to provide a report when it submits its **best practices in electric utility integrated resource ...** - est practices in electric utility integrated resource planning a s energy demand across the united states rises and falls and the generation fleet ages, utilities must plan to add and retire resources in the most cost-effective manner while meeting regional reliability standards. integrated resource planning began **state of colorado introduced** - 11 facilities and services including least-cost electric generating 12 facilities and other supply-side and demand-side resources; and 13 (d) an additional purpose of this act is to create the 14 colorado energy impact assistance authority to assist with the **e3 low carbon scenario analysis: achieving least cost ...** - e3 low carbon scenario analysis: achieving least cost carbon reduction in the electric sector fast facts • the study focuses on a "core nw region" which includes oregon, washington, northern idaho and **evaluating expected electric generation technology cost ...** - account for 7.5 percent of electric utilities' retail sales by january 1, 2018. this study aims to assess diversification's role in building least-cost electric generation portfolios. to gain further insight into potential least-cost electric generation portfolios, decision-makers can employ modern portfolio theory. **sandra bums and george gross pacific gas electric co. san ...** - sandra bums and george gross pacific gas and electric co. san francisco, ca 94106 abstract-this paper presents the value of service (vos) reliability evaluation approach that explicitly incorporates into the planning process customer choices regarding reliability "worth" and service costs. using the least-cost planning **the contribution of energy efficiency to the reliability - profit**, the concept of "least-cost planning" was born. least-cost planning asserted that it was often more cost-effective to help customers reduce their energy demand through more efficient technology and better energy management practices than to build new power plants.1 1 for an excellent history of the rise of demand-side management and ... **california independent system operator corporation** - synergistically with the bulk power system, which provides access to low-cost, regional clean resources. local power and big grid: both are necessary components of least-cost, least-impact electric service. **2016 vermont electric plan draft addendum** - amount of cost effective savings from such investments or programs. (b) each regulated electric or gas company shall prepare and implement a least cost integrated plan for the provision of energy services to its vermont customers. at least every third year on a schedule directed by the **hurricanes and electricity infrastructure hardening** - bodies in some jurisdictions, as electric utilities and transmission builders are often required to consider "least cost" options. making electric systems more weather resilient resilient electric systems are able to maintain some level of operations during hurricanes or storms, and quickly recover from

storm-related damage. **virginia state corporation commission** - with natural gas as a least-cost energy source available to the electric utility industry. indeed, the fact that the compliance filing's least-cost plan still includes some solar resources illustrates this point. as costs fluctuate slightly, from a purely least-cost standpoint, solar will be the less expensive generation source in **commission guidelines regarding electric irp** - commission guidelines regarding electric irp . i. the commission's review of an electric integrated resource plan (utility's irp) may include, but is not limited to: a. the public comment process employed as part of the formulation of the utility's ... [staff comment: this may include, but is not limited to least-cost/least-risk ... **staff analysis of - federal energy regulatory commission** - marginal pricing relies on the economic theory of variable, least-cost pricing. under this theory, resources will offer their variable cost of production. markets will clear in a least-cost manner based on operational practices and will send appropriate short-term price signals based on the marginal cost of production. **electric utility rates - snopud** - was at least 30,000 kwh per month once during the most recent twelve consecutive months. ... developed by incorporating the bpa cost change into the electric cost of service model and rate design policies adopted by the commission in the most recent rate proceeding. effective date: october 1, 2017 **least costly energy management for series hybrid electric ...** - arxiv:1510.07566v1 [cs] 26 oct 2015 least costly energy management for series hybrid electric vehicles simone formentin*, jacopo guanetti, sergio m. savaresi dipartimento di elettronica, informazione e bioingegneria, politecnico di milano, p.l. da vinci 32, 20133 milano, italy. **time and cost overruns of the power projects in kerala** - involved in the time and cost overruns of the power projects in kerala, and concludes the study. delays in project implementation and the attendant cost escalation have been a regular feature in the electric power sector in kerala. normally the construction of a major hydro-power plant is expected to **minnesota's electric cooperatives - mncee** - they are open to the changes affecting the utility system and electric energy markets. the trends they face are clear: demand for least-cost resources, need for reliable electric service, flat to slow load growth, member demand for cleaner utility generation, increasing **market-clearing electricity prices and energy uplift** - market-clearing electricity prices and energy uplift paul r. gribik, i william w. hogan, and susan l. popeii december 31, 2007 ... the least cost unit commitment and dispatch. ... requires some accommodation in selecting a workable rule for pricing electric energy and **least-cost planning in the utilities sector: progress and ...** - least-cost planning in the utility sector: progress and challenges charles goldman, eric hirst, florentin krause editors karen anderson, linda berry, joseph eto, howard geller, charles goldman, jeffrey harris, eric hirst, florentin krause, mark levine, alan meier, arthur rosenfeld, carol sabo, **bank draft plan - southernpineop** - you benefit from cost-cutting the bank draft program reduces our labor and bookkeeping costs. by using a bank draft, you help southern pine operate at the least cost possible, thus helping us maintain stable electric rates. - complete, sign and mail the authorization agreement to: southern pine electric p.o. box 60 taylorville, ms 39168 **levelized cost and levelized avoided cost of new ...** - u.s. energy information administration | levelized cost and levelized avoided cost of new generation resources ae02019 1 . february 2019 . levelized cost and levelized avoided cost of new generation resources in the . annual energy outlook 2019. this paper presents average values of levelized costs and levelized avoided costs for electric ... **docket for rulemaking: "national emission standards for ...** - deterministic linear programming model of the contiguous u.s. electric power sector. ipm provides forecasts of least-cost capacity expansion, electricity dispatch, and emission control strategies while meeting electricity demand and various environmental, transmission, dispatch, and reliability constraints. **state engagement in electric distribution system planning** - planning period, using a combination of supply-side and demand-side resources that represents the least-cost resource mix , accounting for risk and uncertainty. interconnection standards. are the technical specifications for, and testing of, the interconnection between utility electric power systems and ders. **the honorable chair and members of - hawaii** - the honorable chair and members of the hawai'i public utilities commission august 26, 2014 page 2 april 28, 2014 decisions and orders the psip is one of a series of plans and reports ordered by the commission on april 28, 2014.3 on that date, the commission issued four important orders that collectively address key policy, **pg&e's description of its rps bid evaluation, selection ...** - pg&e's description of its rps bid evaluation, selection process and criteria i. introduction a. establishment of the least cost best fit ("lcbf") process decision d.03-06-071 and d.04-07-029 adopted criteria for the rank ordering and selection of least cost, best fit renewable resources for use in rps solicitations. **environmental compliance cost recovery by electric ...** - environmental compliance cost recovery by electric utilities in kentucky: the environmental surcharge mechanism may 2016 kentucky public service commission . two applicable statutory mechanisms: ... "least cost" principle flows from absence of wasteful duplication **optimization of a plug-in hybrid electric vehicle a thesis ...** - electric motor size, engine size, battery type, and battery capacity, are optimized to determine the least cost design that meets a fixed set of vehicle performance constraints. the performance constraints are: 0-60 miles per hour (mph) acceleration time, 50-70 mph **an introduction to electric power transmission presentation** - an introduction to electric power transmission - table of content (toc) glossary ... least cost economic meet the growing need for safe, reliable electricity ... aluminum is preferred over copper for its lower cost and lighter weight, however, this comes at the price of **what's the big deal about tankless water heaters?** - electric storage water heaters have energy factors ranging from 0.86 to 0.94. for

the purposes of this comparison, a national average electric cost of 0.0841 \$/kilowatt hour will be used. the estimated annual cost of operation is higher for electric water heaters because electric energy is more expensive than energy from natural gas. for **electric vehicle (ev) charging infrastructure** - units or more to install ev charging infrastructure in at least 3 percent of total parking spaces. california air resources board (carb) staff completed a technical and cost analysis, which indicates that the 17 unit size threshold should be eliminated and a higher 10 percent requirement is needed **expansion planning for electrical generating systems** - expansion planning for electrical generating systems a guidebook jwti international atomic energy agency, vienna, 1984. ... expansion planning for electrical generating systems: a guidebook iaea, vienna, 1984 sti/doc/10/241 isbn 92-0--155484-2. ... the cost of underbuilding 107 4.1.4. the cost of overbuilding 108 **smallworld electric office - ge** - for the least cost. network design. smallworld electric office, smallworld design manager and smallworld . analysis and optimization provide a powerful set of tools to design, cost, maintain and analyze planned additions to the network. alternate designs for size, route, material, load or demand provide users with significant **7.1 electricity resource planning and procurement** - cost recovery is determined in separate proceedings that typically allow cost recovery when a utility's investment decisions are . demonstrated to be in the public interest (usually least cost/least risk). 59 vertical integration refers to a situation where the same entity (a utility) owns and operates generating units (power plants), **retail electric competition: default service policies and ...** - section 83 requires each electric distribution company to solicit proposals for long-term contracts of ten to 15 years in duration from renewable energy developers at least twice over a five-year period beginning on july 1, 2009, and, if the proposals received are reasonable, to enter into cost-effective long-term **rwanda electricity access scale up program and swap ...** - rwanda electricity access scale up program and swap development eng. yussuf uwamahoro energy sector coordinator ... • electricity cost in rwanda is one the highest in the region at \$0.22 kw/h • electricity demand is 60 mw • installed capacity 75 mw with rental power from aggrego ... least cost rollout plan outcomes baseline 2008 2012 ... **electric vehicle charger placement optimization in ...** - high-tech scenario is lower cost with less ev user delay. • though 150 kw stations more expensive, less are required. • user delay from 30.67 to 12.38 minutes by moving to 150 kw chargers. 2030 high tech scenario is lower cost. 2030 scenario outputs low-tech: 70 kwh battery & 50 kw charger **residential (single lot) - oncor** - oncor electric delivery will provide the least cost design. this design will be considered iterative design #1. allow up to 10 business days for a preliminary cost estimate. warranty deed information along with survey notes for electric easement requirements. site plan with desired meter, transformer and other equipment locations clearly marked. **electric rule 11 electric service facilities a. general** - the utility's standard least cost facilities to serve an applicant's new or increased commercial or industrial load shall be installed by the utility and be paid by the applicant in advance of installation. the extra cost for any additional facilities or accommodations required beyond a standard least cost service as determined by the **proposed reference system plan** - • the electric sector currently represents 19% of total statewide ghg emissions. -in 1990, the electric sector represented 25% of the statewide total. • the purpose of irp is to ensure that the electric sector is on track to help california achieve its statewide 2030 ghg target at least cost while maintaining the reliability of the grid. **homer: the micropower optimization model. national ...** - most cost-effectively supply the energy required by the island. homer's sensitivity analysis capability helped the team assess the impact of fuel price on the least-cost system design. the team also used two other nrel models: vipor to determine electric distribution mini-grid costs, and hybrid2 to finalize the design of the hybrid power ... **about your electric cooperative - bemc** - about your electric cooperative for more info, visit bemc or call us at 800-842-5871 rev 07/15 ... provide at-cost electric service to their consumer-owners. ... you must own your home and have been a member for at least two years with a good credit history with the co-op.

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