

Bus Lifecycle Cost Model Users Guide National

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Bus Lifecycle Cost Model User's Guide (PDF, 339KB) Spreadsheet Model, December 2011 Ferry Lifecycle Cost Model (XLSX, 410KB) Ferry Lifecycle Cost Model User's Guide (PDF, 534KB) Hybrid Ferry to Alcatraz Island (National Park Service) Last updated: Monday, June 17, 2019. U.S. DEPARTMENT OF TRANSPORTATION.

~~Department of the Interior - Bus and Ferry Lifecycle Cost ...~~

The Bus Lifecycle Cost Model is a spreadsheet-based planning tool that estimates capital, operating, and maintenance costs for various bus types over the full lifecycle of the vehicle. The model is based on a number of operating characteristics, including those related to the routing and frequency of the service. The model is designed to allow users to estimate and compare the total costs of offering different types of bus services over time.

~~Welcome to ROSA P~~

ABSTRACT. The life cycle cost (LCC) methodology provides understanding of economic aspects of urban buses equipped with different types of propulsion. The LCC analysis delivers the sum of costs related to the acquisition, operation, repair and maintenance disposal as well as the costs for the each bus power train technology.

~~Evaluation of the Life Cycle Costs for urban buses ...~~

The research indicates that the total cost of ownership (TCO) of an electric bus, calculated over a life cycle of 25 years, is 5-10% less compared to a diesel bus.

~~(PDF) Life Cycle Cost Analysis for Electric vs. Diesel Bus ...~~

electric buses which would become cost effective in the near future. They use three main lifecycle cost categories for analyses: capital cost (C CAP), operating cost (C OP) and technology replacement cost (C REP). Equation (1) describes the annualized lifecycle cost calculation for a bus fleet. N BUS is the number of buses in operation and d rate is the

~~Comparison of the Lifecycle Cost Structure of Electric and ...~~

The Life Cycle Cost (LCC) of an asset is defined as: ... Product life cycle may be extended by finding new uses or users or by increasing the consumption of the present users. 3. Stages of Product Life Cycle ... The preparation of the Life Cost Analysis involves review and development of the LCC Model as a " real-time " or actual cost control ...

~~Life Cycle Costing: Meaning, Characteristics and ...~~

Useful Life of Transit Buses and Vans Final Report REPORT DOCUMENTATION PAGE Form Approved OMB No. 0704-0188 Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions,

~~Useful Life of Transit Buses and Vans Final Report~~

Life cycle cost analysis (LCCA) is an approach used to assess the total cost of owning a facility or running a project. LCCA considers all the costs associated with obtaining, owning, and disposing of an investment. Life cycle cost analysis is especially useful where a project comes with multiple alternatives and all of them meet performance necessities, but they differ with regards to the initial, as well as the operating, cost.

~~Life Cycle Cost Analysis—Overview, How It Works ...~~

That will help you calculate the overall cost of your project ' s life cycle. It will also assist you in managing your money properly. That will benefit you in making your project leaner and provide more value to your organization.

~~Life Cycle Cost Analysis Spreadsheet Templates—Mr Dashboard~~

About the Worksheets in this Model: There are two worksheets users can employ to calculate bus lifecycle costs. The “ Required Inputs & Basic Schedule ” worksheet identifies the key user inputs, which include bus types, route and schedule characteristics (e.g. distances, travel times), operations and maintenance parameters, and other optional ...

~~+Volpe National Transportation Systems Center~~

Zicheng Bi, Robert Kleine, Gregory A. Keoleian, Integrated Life Cycle Assessment and Life Cycle Cost Model for Comparing Plug in versus Wireless Charging for an Electric Bus System, Journal of Industrial Ecology, 10.1111/jiec.12419, 21, 2, (344-355), (2016).

~~Life Cycle Assessment of Diesel and Electric Public ...~~

1 Arizona State University 2 University of California at Los Angeles 3 University of California at Berkeley Life Cycle Assessment for Transportation Decision making By Mikhail Chester † 1, Juan Matute2, Paul Bunje2, William Eisenstein3, Stephanie Pincetl*2, Zoe Elizabeth2, and Connery Cepeda3 *Principal Investigator

~~Life Cycle Assessment for Transportation Decision making~~

To apply the Works Cost for your model, transfer the costs from OB1 / FB1 cost forms (box 5., excluding VAT but including Planning Contingencies). Remember to insert the costs according to the years of expenditure. Insert to cells E13, F13 etc. Note year 1 should be the year in which commissioning occurs and when the facility is available.

~~Cost Model User Guide~~

There are two worksheets users can employ to calculate bus lifecycle costs. The “ Required Inputs & Basic Schedule ” worksheet identifies the key user inputs, which include bus types, route and schedule characteristics (e.g. distances, travel

times), operations and maintenance parameters, and other optional costs for infrastructure and miscellaneous items.

~~www.volpe.dot.gov~~

Life Cycle Costs Fuel Type Base Bus Cost 12-Year Fuel Costs Lifecycle costs Diesel \$425,000 \$351,000 \$776,000 CNG \$475,000 \$185,630 \$660,630 Hybrid Diesel Electric \$600,000 \$255,270 \$855,270 Battery Electric (Off-Peak/No Demand) \$750,000 \$129,600 \$879,600 Battery Electric (Peak w/Demand) \$750,000 \$259,200 \$1,009,200

~~Life Cycle Cost Overview for Different Transit Technologies~~

This paper describes how a spreadsheet tool for a life-cycle cost (LCC) model for transit buses was developed to assist transit agencies in forecasting life-cycle operating and capital costs when...

~~(PDF) Creation of Life Cycle Cost Tool for Transit Buses ...~~

EIO-LCA utilizes two major simplifications that enable the user to conduct an LCA more quickly and without significant cost: (1) the model assumes that an increase in output requires an equal increase in the inputs, meaning that the average production conditions as opposed to the marginal impacts associated with changes in production (2) all production and services are aggregated to approximately 500 sectors of the U.S. economy.

~~LIFE CYCLE ASSESSMENT OF DIESEL AND ELECTRIC PUBLIC ...~~

A Life Cycle Cost model is constructed using data from bus trials in Perth. • Hybrid and hydrogen technologies are compared with diesel and gas. • Results are represented as Total Cost of Ownership – a dollar value in real terms. • The TCO of conventional diesel is lower than the alternative technologies. •

~~Life cycle costing of diesel, natural gas, hybrid and ...~~

The parameters of the model are identical to those considered in the life cycle phases of the average transit bus. Total life cycle CO₂ emissions, for instance, consist of emissions from bus manufacturing, vehicle maintenance, refueling infrastructure investment (if necessary), lifetime battery replacement, tailpipe emissions, and emissions ...

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